MINUTE ITEM

This Calendar Item No. 39 was approved as Minute Item No. 39 by the State Lands Commission by a vote of ______ to _ 0 _ at its _ 2/25/82 meeting.

CALENDAR ITEM

39

2/23/82 W 40271 Hoagland PRC 6112 PRC 6113

GEOTHERMAL PROSPECTING PERMITS

APPLICANT:

Holly Energy, Inc. 2600 Diamond Shamrock Tower

717 N. Harwood Street Dallas, Texas 75201

Attention: Mr. W. H. Boyles

AREA, TYPE LAND AND LOCATION:

Approximately 465 acres of reserve mineral lands, Imperial County in one permit, and approximately 1,290 acres of reserve mineral lands, Imperial County in the second permit.

LAND USE:

Geophysical, geological and geochemical

exploration to target drillsites for exploration

drilling to assess geothermal potential

of area.

TERMS OF PROPOSED PERMITS:

Initial period: Two years.

Renewal options:

One period for two years.

Surety bond:

\$50,000.

Special:

Upon discovery of geothermal resources in commercial quantities on each permit permittee will be entitled to preferential leases upon notice of intention to exercise this right; subject, however, to the discretion of the Commission and review

of environmental documentation pertaining to deep exploratory

drilling and full field

development of the resources.

CONSIDERATION:

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

75

-1-

CALENDAR PAGE

38

MINUTE PAGE

CALENDAR ITEM NO. 39 (CONTD)

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 1/ Div. 6.

AB 884:

N/A.

OTHER PERTINENT INFORMATION:

1. Holly Energy, Inc. 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.

Staff is recommending that Holly's application for one permit covering portions of four sections be divided into two permits with one for one section (Parcel A) and a second for three contiguous sections (Parcels B1, B2 and B3).

ENVIRONMENTAL INFORMATION:

 A Negative Declaration (No. 293) was prepared by Commission staff pursuant to the provisions of CEQA.

Mitigation measures addressing comments received in response to the Initial

CALENDAR PAGE 245
MINUTE PAGE 562

CALENDAR ITEM NO. 39 (CONTD)

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.

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. 293) 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 PROJECT WHICH MITIGATE OR AVOID THE SIGNIFICANT ENVIRONMENTAL EFFECTS THEREOF AS IDENTIFIED IN THE COMPLETED NEGATIVE DECLARATION.
- AUTHORIZE ISSUANCE TO HOLLY ENERGY, INC. OF TWO TWO-YEAR GEOTHERMAL PROSPECTING PERMITS WITH LESSEE'S OPTION TO RENEW FOR ONE PERIOD OF TWO YEARS AND WITH THE RIGHT TO REQUEST A PREFERENTIAL LEASES IN THE EVENT GEOTHERMAL RESOURCES ARE DISCOVERED IN COMMERCIAL QUANTITIES ON EACH LEASE; IN CONSIDERATION OF ANNUAL RENTS IN THE AMOUNT OF \$1 PER ACRE FOR THE FIRST YEAR, ESCALATING 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" AS PARCELS A AND B ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF. THE PERMITS WILL AUTHORIZE GEOTHERMAL EXPLORATION INCLUDING THE DRILLING OF GEOTHERMAL WELLS. THE PERMITS WILL FURTHER PROVIDE THAT IF PREFERENTIAL LEASES ARE REQUESTED, THEY 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 CHÉMICAL 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.

CALENDAR PAGE 246
MINUTE PAGE 563

LAND DESCRIPTION

W 40271

Two parcels of California State school land in Imperial County, California, described as follows:

"ARCEL A

Section 36, TIOS, R9E, SBM.

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

ALSO EXCEPTING THEREFROM the west half of the southwest quarter of said Section 36 and the northwest quarter of the northeast quarter of said Section 36.

ALSO EXCEPTING THEREFROM any portion of said Section 36 lying north or east of the southerly and westerly boundary lines of Tract 779 as recorded in Book 11, page 3 of Official County Records, in the County of Imperial, State of California.

Said parcel containing 465.20 acres, more or less.

PARCEL B-1

Section 22, T10S, R10E, SBM.

EXCEPTING THEREFROM any portion of said Section 22 lying within Tract 584 as recorded at Book 6 of Final Maps, page 76; Tract 679, recorded at Book 7 of Final Maps, page 54; Trace 585-A, recorded at Book 7 of Final Maps, page 69; Tract 742, recorded at Book 10 of Final Maps, page 1; Tract 744, recorded at Book 10 of Final Maps, page 5; and Trace 751, recorded at Book 10 of Final Maps, page 56.

ALSO EXCEPTING THEREFROM that portion of said section conveyed to the Salton Community Service District by deed dated July 9, 1962, and recorded in Book 1115, page 471 of the Official Records of Imperial County, California.

Said parcel containing 460 acres, more or less.

Page 1 of 2

Calendar Page

MINUTE PAGE

247 560

PARCEL B-2

W-1/2, W-1/2 of SE-1/4, SE-1/4 of SE-1/4, Section 26, TiOS, R10E, SBM.

Said parcel containing 440 acres, more or less.

PARCEL B-3

Section 28, T10S, R10E, SBM.

EXCEPTING THEREFROM any portion of said Section 28 lying within Tract 583, recorded at Book 6 of Final Maps, page 67; Tract 589, recorded at Book 7 of Final Maps, page 1; Tract 580, recorded at Book 7 of Final Maps; page 6; Tract 624, recorded at Book 7 of Final Maps; page 25; Tract 624-A, recorded at Book 7 of Final Maps, page 30; Tract 745, recorded at Book 10 of Final Maps, page 19.

Said parcel containing 390.20 acres, more or less.

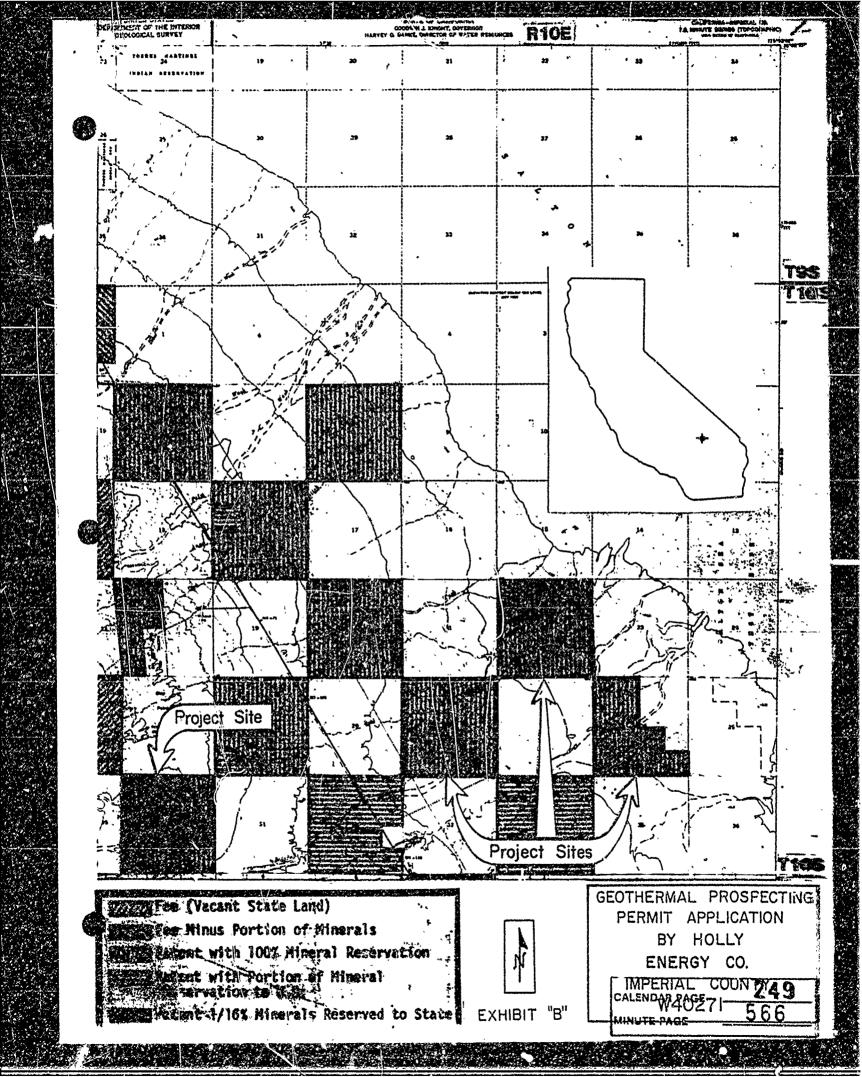
END OF DESCRIPTION

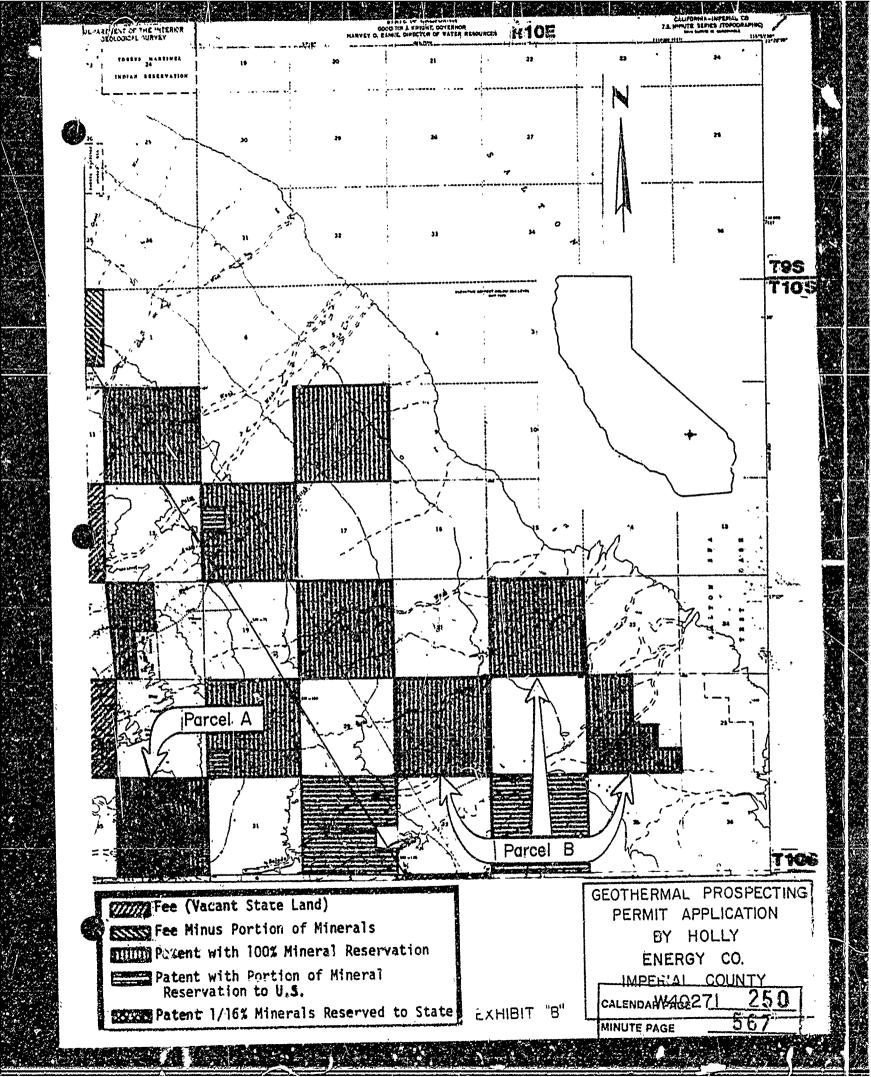
REVISED FEBRUARY 10, 1982 BY TECHNICAL SERVICES UNIT, ROY MINNIC', SUPERVISOR.

CALENDAR PAGE .

MINUTE PAGE

565





STATE LANDS COMMISSION 1807 19TH STREET

SACRAMENTO, CALIFORNIA 95814



EXHIBIT "C"

[X]	Draft		
177	Final	NEGATIVE	DECLARATION

EIR ND 293

File Ref.: W 40271

SCH/:

Project Title: GEOTHERMAL PROSPECTING PERMIT-TRUCKHAVEN PROSPECT-W 40271

Project Location: On the west side of Salton Sea about 3 miles south of Truckhaven, Imperial County. .

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 exploration drilling the site specific impacts will be assessed in a separate

study .

This NEGATIVE DECLARATION is prepared pursuant to the requirements of the California Envilonmental 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 Land: Commission regularions (Section 2901 et seq, Title 2, of the California Administracive Code),

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

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

the attached mitigation measures will avoid potentially significant effects.

Ted Fukushima Contact Person:

1807 13th Street

Sacramento, CA 95814

(916) 322-7813

CALENDAR PAGE MINUTE PAGE

568

MITIAL STUDY CHECKLIST

Form 15,29 (7/80)

File Ref.: W 40271

DI.	88	CKGROUND INFORMATION
	Δ	Applicant: Holly Energy
	,	2600 Diamond Shamrock Tower
		717 N. Harwood St., Dallas, TX 75201
		ATTN: Mr. W.H. Boyles, Vice President Land & Legal
	B. 1	Checklist Date: / / /
		Contact Person. Donald L. Hoagland
	-	Telephone: (916) 322-7804
	D.	Purpose. Issuance of a permit to prospect for geothermal resources
	E.	Location: Westside of Salton Sea approximately 3 miles southeast of Truckhaven, Imperial
		County, state reserve mineral interests within Sec. 36, T10S, R9E, Sec. 22, T10S,
		R10E, and Sec 28, T10S, R10E SBBM, approximately 1875 acres.
	£.	Description: Applicant proposes to perform geological and geophysical exploration
		including the drilling of a limited number of temperature gradient holes to target
		drillsites for deep exploration drilling to determine the existence, quality and
		quantity of geothermal resources for electrical power generation. 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 re-
		stricted to existing roads and trails. Site specific impacts of deep exploration
		drilling will be assessed by the County of Imperial under application for a condition.
		use permit. No lease will be issued until the impact of full field development has
		been assessed.
	G.	Persons Contacted: Doug Stockton, GeothermalOfficer, Division of Oil and Gas;
		Ronald Powell, Department of Fish & Game, Blythe; Jay Von Werlhof, Director,
		Imperial Valley College Museum, El Centro.
II.	EN	VIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers)
	A.	Earth, Will the proposal result in:
		1. Unstable earth conditions or changes in geologic substructures?
		2. Disruptions, displacements, compaction, or overcovering of the soil?
		3. Change in topography or ground surface relief features?
3 2		4. The destruction, covering, or modification of any unique geologic or physical features?
y		5. Any increase in wind or water erosion of soils, either on or off the site?
		E. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet, or lake?
		7. Exposure of all people of property to yet agic hazards such as earthquakes, landslides, mudstides, ground failure, or similar hazards

_	All Will the managed regula in:	Yes N	Naybe N	۰. ملا
Ŗ,	Air. Will the proposal result in: 1. Substantial air emmissions of Seterioration of ambient air quality?			x ·
	1. Substantial air emmissions of Exterioration of amoient air quality?			Ì
	2. The creation of objectionable odors?		1	×
				
C.	States. Will the proposal result in: 1. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters?			x
	1. Changes in the currents, or the course or direction of water movements, in ertile marrie of mass or these values. 2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?			<u></u>
	2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water chosen. 3. Alterations to the course or flow of flood waters?	靣		
	3. Alterations to the course or flow of flood waters?			W.
	5. Disphases that surface waters or to any alteration of surface water quality, including but not limited to	 		
	temperature, dissolved cxygen or turbidity/			[X]
	6. Alteration of the direct on or rate of flow of ground waters?	Ш	<u> </u>	[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?		x (
	8. Substantial reduction in the amount of water otherwise available for public water supplies?	닏	——————————————————————————————————————	N N
	9. Exposure of people or property to water-related hazards such as flooding or tidal waves?	ᆜ		Ľ
	10. Significant changes in the temperature, flow or chemical content of surface thermal springs?	Ш	x	لـا
٥.	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)?	<u>اسا</u>		X
	2. Reduction of the numbers of any unique, rare or endangered species of plants?		L	x
	3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?			×
	4. Reduction in acreage of any agricultural crop?	Ц	Ц	×
Ε.	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?.	لــا	Ц	×
	3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?	· 닏		[X]
	4. Deterioration to existing fish or wildlife habitat?	. Ц	L	x
F.	. Naise. Will the proposal result in:	_	 :	۲
	1. Increase in existing noise levels?			
	2 Exposure of people to severe noise levels?	. ا		Lxl
G	. Light and Glare. Will the proposal result in		.—,	۲,
	1 The production of new light or glare/	٠ نـا	Lx	<u> </u>
Н	. Land L'ac. Will the proposal result in:		لسا	۲
	1. A substantial alteration of the present or planned land use of an area?		×	نا
1.				, <u>,</u>
	1. Increase in the rate of use of any natural resources?			
• 200	2. Substantial depletion of any nonrenewable resources?	. x		LJ
			75	~
	CALENDAR PAGE		25	<u>ئ</u>
	- 2 · MINUTE PAGE	*****	3/	<u>U</u>

	2. Substantial increase in demand upon existing sources of energy, or require the development of new source			
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				نشا
	2. Substantial increase in demand upon existing sources of energy, or require the development of new source. ? .			
	1. Usa of substantial amounts of fuel or energy?			x
	1. Usa of substantial amounts of fuel or energy?			[x]
				[x]
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0.	Energy. Will the proposal result in:			
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	1. Usa of substantial amounts of fuel or energy?			x
		<u>, — </u>		
	2. Substantial increase in demand upon existing sources of energy, or require the development of new source.?.			
_		نسا	لسا	نشا
P.	Utilities. Will the proposal result in a need for new systems, or substantial alterations to the following utilities.			
۲.			С—,	نسا
	1. Power or natural gas?			X
	2. Communication systems?	$\overline{\Box}$		
			ᆜ	
	3. Water?			छ
	4. Sewer or septic tanks?	一	一	C-7
		ليا	<u>L. l</u>	(X)
	5. Storm water drainage?			$\{\mathbf{x}^1\}$
	·	J 1	4 .	,
	6. Solid waste and disposal?	1	[x]	i
Q.	Human Health, Will the proposal result in:	-	*	
٦,		٠	L	ŗ,
	1. Creation of 1.4 health hazard or potential health hazard (excluding mental health)?		[X]	1 !
	2. Exposure of people to potential health hazards?			x
o		السيا	السدا	L 271
R.	Aesthetics. Will the proposal 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?		[x]	
S.	Recreation. Will the proposal result in:			A
				اتا
	1. An impact upon the quality or quantity of existing recreational opportunities?	لسا	ليا	[x]
			254	1
	-3- CALENDAH PAGE	 (<u>بر رہ</u>	1;
	MINUTE PAGE	_ 5	17	
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		•
r	Cultural Resources.	Yes Maybe No
•	1. Will the proposal result in the alteration of or the destruction of a grehistoric or historic archeological site?	
	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?	
	4 Will the proposal restrict existing religious or sacred uses within the potential impact area?	
U	Mundatory Findings of Significance.	
	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 rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	
	2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?	
	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?	
ati, Di	SCUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)	
Λ2,3.	drilling mud. The sites will not exceed 3.7 deres and the proposed parameters and reseeding upon conclusion of drilling.	· · ·
82.	There is a possibility of temporary venting of H ₂ S during drilling. The prequire an H ₂ S contingency plan, continuous monitoring of effluent gases a reporting gas analyses, and compliance with regulations and orders of all agencies baying jurisdiction.	governmental
с7.	geothermal ground waters. Depending on the nature of the resource, such reinjected after the extraction of heat. Potable ground waters will be processing and dementing, as required by the permit as well as requirements of Oil and Gas.	cotected by E the Division
C10.	wells and a reduction in temperature, flow or chemical content of surface this is a remote possibility and therefore a spring monitoring program world exploratory wells are proposed for drilling near springs.	uld be required
Fl	There will be an increase in noise levels during drilling, which is expec more than 4-5 weeks per well; the permit will allow a maximum noise level	ted to take no of 65 dba at
	կ mile from the site. (See Attachment)	
IV. D	ETERMINATION	
0	on the basis of this initial evaluation:	
Ĺ	I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DE be prepared.	CLARATION will
Ç	I find that although the proposed project could have a significant effect on the environment, there will not be in this case because the mitigation measures described on an attached sheet have been added to the project DECLARATION will be prepared.	a significant effect ect A NEGATIVE
	I find the proposed projet: MAY have a significant effect on the environment, and an ENVIRONMENTAL is requied.	IMPACT REPORT
C	Date: 11 / 10 / 81 For the State Lands Commission CALENDAR PACE	<u>255</u>
	— 4 — MINUTE PAGE	reconstitution)

(Attachment)

- G1. 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 planted land use, which is currently desert ecreation, 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.
- II. 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.
- 12. 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 [13] am should assist in extending the life of the reservior thus reducing rate of depletion.
- J1. The permit will require a blowout contingency plan to contain any nazardous materials at the drill site.
- M1. While the increase in traffic during the initial exploation phase will be slight and cause by crew and equipment traffic for brief periods, the area is sparsely inhabitated thus any increase in traffic might be considered a substantial increase when measured against the normal traffic count.
- N5. 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 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 either be dried on the site and covered or removed and trucked to an approved II-1 site.
- Q1. 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 while will keep H₂S emissions well below the level where they would become health nazards.
- R1. Temporary siting of a drill rig may be aesthetically offensive; however, the proposed drill sites are located in relatively remote and sparsely populated areas.
- 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.

CALENDAR PAGE 256
MINUTE PAGE 573

COMMENTS RECEIVED FROM REVIEW OF INITIAL STUDY CHECKLIST AND PROPOSED MITIGATION

 The Resources Agency Department of Fish and Game

COMMENT:

It does not appear that there are any rare or endangered flora or 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 roads and trains during the initial exploratory phase will be made a part of the permit.

Jay Von Werlhof, Director 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 damage to potential sites, cross country driving during the exploratory stage should be limited.

RESPONSE:

See response to \$1.

 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 or locations for temperature gradient holes is completed, the applicant will be required to obtain a permit from the county and an assessment of site specific impacts will be made.

CALENDAR PAGE 257
MINUTE PAGE 574

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

COMMENT:

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 annual water needs for the west side of the Salton Sea.

COMMENT:

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

RESPONSE:

The portions of the Truckhaven EIR dealing with potential pollution of groundwater 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

COMMENT:

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 lizard and the Colorado Desert fringed-toed lizard). If these species are present on the property, disturbance of dunes and sandy areas by prospecting activities could be harmful to them.

CALENDAR PAGE 258
MINUTE PAGE 575

(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.

CALENDAR PAGE

MINUTE PAGE

Plie Ref. : W40271

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MINUTE PAGE

<u> </u>	Mke Rodgmer Air Resources Board 1101 & Street Sactamento, CA 95814		乊	Harvey Collins Dept. of Healt 714 P Street Sacramento, CA	ia .	
	Local APCD		乊	Dave Williamson Dept. of Housi 921 Tenth Stre Sacramento, Co	ing & Community Dav' et, 6th Floor	't.
			<u> </u>	James M. Doyle Dept. of Parks 1220 K Street, Sacramento, Co	s & Recreation , 3rd Floor	
口	William Travis California Constal Commission 631 Howard Street San Francisco, CA 94105		ĽØ	Hick del Ciopy Office of Hist 1220 K Street Secramento, C	toric Preservation , 3rd Floor	
Ľ.	CALIFORNIA Energy Commission Hill House Avenue, MS 43 Sacramento, CA 95825		1_7	Robert Penny Public Utility 350 McAlliste San Francisco		. •
乊	Mary Kelly CalTrans - Div. of Aeronautics 1120 N Street Sacramento, CA 95814		口	Mel Schwartz Reclamation Board 1416 Ninch Street Sacramento, CA 95814		
口	Carol August Dept. of Boating & Waterways 1629 S Street	2	<i>□</i>	Robert Batha S. F. Bay Con 30 Van Ness A San Francisco	s. & Dav't. Comm. Nenue, Room 2011 , CA 94102	, q , , , , , , , , , , , , , , , , , ,
<u> 189</u>	Patrick Nevis Dept. of Conservation 1416 Ninth Street, Room 1354 Sacramenso, CA 95814		<u> </u>	Solid Waste M	lanagement Board Treet, Room 300 LA 95814	
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ヷ	- Cliff Chapman Dept. of Forestry 1416 Ninth Street, Koom 1606-17 Sacramento, CA 95814			Callrans Dis	nsportation	•
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CALENDAR PAGE 261
MINUTE PAGE 578