

MINUTE ITEM

This Calendar Item No. 26 was approved as Minute Item No. 26 by the State Lands Commission by a vote of 2 to 0 at its 12-20-79 meeting.

CALENDAR ITEM

26.

12/79
W 40109
Willard
"STATE 2894"

APPROVAL OF REMEDIAL WELL WORK
"STATE 2894" 2, CALIENTE OFFSHORE FIELD
SANTA BARBARA COUNTY

LESSEE:

Chevron USA, Inc.
575 Market Street
San Francisco, CA 94105

AREA, TYPE LAND AND LOCATION:

Offshore tide and submerged, 4250 acres,
Caliente Offshore Field, Santa Barbara
County

PROPOSED ACTION:

Chevron proposes to conduct remedial work and testing of an existing well, "State 2894" 2, by perforating specific intervals of a shallow zone excluded behind cemented casing and measuring any production obtained.

The proposed work will be completed from a floating drillship using conventional drillstem test equipment. All testing will be done during daylight hours. Actual testing should take four to twelve days with the drillship being at the test site a maximum of two to four weeks.

The work will be conducted in accordance with the rules and regulations of the State Lands Commission and other agencies.

PREREQUISITE ITEMS:

In accordance with the State Guidelines for implementation of the CEQA of 1970, as amended, Commission staff prepared an initial study for the project and concluded that the proposed work will not result in a significant effect on the environment. Therefore, the preparation of an EIR is not required. As such, a Negative Declaration

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CALENDAR ITEM NO. 26. (CONTD)

was prepared and circulated to concerned agencies and to the public.

- EXHIBITS:
- A. Negative Declaration.
 - B. Location Map.

IT IS RECOMMENDED THAT THE COMMISSION:

1. DETERMINE THAT AN EIR WAS NOT BEEN PREPARED FOR THIS PROJECT, BUT THAT A NEGATIVE DECLARATION HAS BEEN PREPARED BY COMMISSION STAFF.
2. CERTIFY THAT THE NEGATIVE DECLARATION (EIR ND 251) HAS BEEN COMPLETED IN COMPLIANCE WITH CEQA OF 1970, AS AMENDED, AND THE STATE GUIDELINES, AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
3. DETERMINE THAT THE PROJECT WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
4. FIND THAT GRANTING THIS AUTHORIZATION WILL HAVE NO SIGNIFICANT EFFECT UPON ENVIRONMENTAL CHARACTERISTICS IDENTIFIED PURSUANT TO SECTION 6370.1 OF THE P.R.C.
5. AUTHORIZE THE REMEDIAL WORK AND TESTING OF WELL "STATE 2894" 2 UNDER STATE OIL AND GAS LEASE PRC 2894.1, IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE STATE LANDS COMMISSION, AND IN ACCORDANCE WITH THE PROPOSAL FOR WELL OPERATIONS ON FILE IN THE OFFICE OF THE COMMISSION.

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STATE LANDS COMMISSION

EXECUTIVE OFFICE
1807 - 13th Street
Sacramento, California 95814

KENNETH CORY, Controller
MIKE CURB, Lieutenant Governor
RICHARD T. SILBERMAN, Director of Finance



WILLIAM F. NORTHROP
Executive Officer

EIR ND _____

File Ref.: W 40109

NEGATIVE DECLARATION

Project Applicant: Chevron U.S.A. Inc.

Project Location: State Oil and Gas Lease PRC 2894.1 Offshore, 27 miles west of Santa Barbara, 11 miles southwest of Solvang, and 17 miles southeast of Lompoc.

Project Description: To test an existing well on State Oil and Gas Lease PRC 2894.1. Perforate specific intervals of the Monterey Zone, already drilled through and excluded behind cemented casing, and to measure any production obtained.

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 (Title 14, Section 15000 et. seq. of California Administrative Code), and the State Lands Commission regulations (Section 2901 et. seq. of California Administrative Code).

Based upon the attached Initial Study, the Commission finds that:

- the project will not have a significant effect on the environment.
- the mitigation measures included in the project will avoid potentially significant effects.

Contact Person: Ted Fukushima
State Lands Commission
1807 - 13th. Street
Sacramento, CA 95814

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EIR/NOTICE MAILING LIST

W 40109

*Honorable Omer L. Rains
Member of the Senate
18th District
California State Legislature
State Capitol
Sacramento, CA 95814

*Honorable Gary K. Haet
Member of the Assembly
35th District
California State Legislature
State Capitol
Sacramento, CA 95814

Santa Barbara County Board of Supervisors
County Building
105 E. Anapamu Street
Santa Barbara, CA 93101

NOTE: If more than one Assemblyman, Senator or Board of Supervisors are affected, add to list in the spaces provided on the following pages.

PRESS BUREAU OFFICES AND NEWSPAPERS
(Cross out those not wanted)

~~Capitol News Service
Fred Kline, Executive Editor
301 Capitol Mall, Suite 300
Sacramento, CA 95814~~

~~San Francisco Examiner,
110 Fifth Street
San Francisco, CA 94103~~

~~UPI News Bureau
207 S. Broadway
Los Angeles, CA 90012~~

~~Sacramento Bee
21st & Q Street
Sacramento, CA 95804~~

~~Associated Press
1111 S. Hill Street
Los Angeles, CA 90015~~

~~Los Angeles Times
Times-Mirror Square
Los Angeles, CA 90012~~

~~United Press International
925 L Street, Suite 1185
Sacramento, CA 95814~~

~~City News Service
107 S. Broadway, Room 1127
Los Angeles, CA 90012
Attn: Mr. Marshall Voight~~

~~Associated Press
925 L Street, Suite 320
Sacramento, CA 95814~~

~~City News Service
P.O. Box 2522
Los Angeles, CA 90054~~

REGIONAL NEWSPAPERS

~~SANTA BARBARA NEWS ^{- PRESS} ~~REVIEW~~~~
DE LA GUERRA PLAZA
SANTA BARBARA, CA 93102

~~Santa Barbara News & Review~~
1930 DE LA VINA

COPIES TO BE MAILED	143
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*NOTE: An asterisk indicates that a copy of the environmental document will be sent with the notice.

FOR LONG BEACH EIR's ONLY

*The Resources Agency
1416 Ninth Street, Room 1311
Sacramento, CA 95814

*State Clearinghouse (15 copies)
Office of Planning and Research
1400-10th Street, Room 121
Sacramento, CA 95814

*U.S. Fish & Wildlife Service
2800 Cottage Way
Sacramento, CA 95825

*State Library (3 copies)
Government Publications Section
Library and Courts Buildings
Sacramento, CA 95814

_____ Planning Department

*Environmental Protection Agency
100 California Street
San Francisco, CA 94111
Attn: Paul De Falco, Jr.
Regional Administrator

*U.S. Geological Survey
345 Middlefield Road
Menlo Park, CA 94025
Attn: Reid Stone, Geothermal
Supervisor (Send only
geothermal related docu-
ments)

*Ed-Hastey, State Director
California State Office
Bureau of Land Management
2800 Cottage Way-Room 2841
Sacramento, CA 95825

*Union Oil Company of California
P.O. Box 7600
Los Angeles, CA 90051
Attn: Mrs. Ferbrache
(Minerals, Geothermal, Oil & Gas)

AREAWIDE CLEARINGHOUSE
(Where Applicable)

* _____

NOTE: An asterisk indicates that
a copy of the environmental
document will be sent with
the notice

DATE	145
NO. OF COPIES	2603

MAILING LIST

Air Resources Board
Attn.: Mr. Bill Lewis
Executive Officer
P. O. Box 2815
Sacramento, CA 95812

Memo

South Central Regional Coastal Commission
Attn.: Mr. Carl Hetrick
Executive Officer
1224 Coast Village Cir., Suite 36
Santa Barbara, CA 93101

Memo

Division of Oil and Gas
Attn.: Mr. M. G. Mefferd
State Oil and Gas Supervisor
1416 Ninth Street, Room 1316
Sacramento, CA 95814

Memo

Department of Fish and Game
Attn.: Mr. Don Lollock
Environmental Services
1416 Ninth Street, 12th Floor
Sacramento, CA 95814

Memo

Department of Justice
Attn.: Mr. Gregory Taylor
Assistant Attorney General
3580 Wilshire Boulevard
Land Law Section
Los Angeles, CA 90010

Memo

Department of Parks & Recreation
Attn.: Mr. James P. Tryner, Chief
Resources Preservation and
Interpretation
1220 "K" Street
Sacramento, CA 95814

Memo

Solid Waste Management Board
Attn.: Mr. Albert A. Marino
Executive Officer
825 "K" Street, Suite 300
Sacramento, CA 95814

Memo

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Regional Water Quality Control Board
Attn.: Mr. Kenneth R. Jones
Executive Officer
1122A Laurel Lane
San Luis Obispo, CA 93401

Memo

Office of Planning and Research
Attn.: Laurie Wright
1400 10th Street
Sacramento, CA 95814

Memo

Honorable Omer L. Rains
Member of the Senate, 18th District
California State Legislature
State Capitol
Sacramento, CA 95814

Memo

Honorable Gary K. Hart
Member of the Assembly, 35th District
California State Legislature
State Capitol
Sacramento, CA 95814

Memo

Santa Barbara County
Attn.: Mr. Al Reynolds
Department of Environmental Quality
105 E. Anapamu Street
Santa Barbara, CA 93101

Letter

County of Santa Barbara
Attn.: Mr. Robert Kallman
Chairman
Board of Supervisors
County Building
105 E. Anapamu Street
Santa Barbara, CA 93101

letter

Mr. A. Barry Cappello
City Attorney
c/o City of Santa Barbara
City Hall - De La Guerra Plaza
Santa Barbara, CA 93102

letter

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✓ U. S. Fish & Wildlife Service
2800 Cottage Way
Sacramento, CA 95825

Memo

Environmental Protection Agency
215 Fremont Street
San Francisco, CA 94105

Memo

✓ Mr. Ed Hasteley, State Director
Bureau of Land Management
2800 Cottage Way
Sacramento, CA 95825

Letter

District Engineer
U. S. Army Corps of Engineers
300 N. Los Angeles Street
Los Angeles, CA 90012

Letter

Mr. Fred J. Schambeck
Area Oil and Gas Supervisor
U. S. Geological Survey
300 N. Los Angeles Street *1540 West Street, P.O. 163*
Los Angeles, CA 90012
17

Letter

Santa Barbara County Air Pollution
Control District
4440 Calle Real
Santa Barbara, CA 93110

Letter

Ms. Margaret C. Rourke
Chevron U.S.A., Inc.
P. O. Box 606
La Habra, CA 90631

Letter

✓ Commander, 11th Coast Guard District
400 Oceangate
Long Beach, CA 90802

Letter

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PRC 2894.1
W 40109

Replies to Comments received concerning the Initial Study as per attached letters.

- ref. Santa Barbara County APCD letter of 7/25/79
item 1. - See Chevron letter of 10/9/79
item 2. - See Initial Study - sections 5 & 7
item 3. - See Chevron letter of 10/9/79
- ref. Memo from Department of Fish and Game - 8/16/79
See Initial Study - Section 7.
Environmental Contingency Plan contains lists of
Appropriate equipment for oil spill containment.
Attached is Addenda to Chevron's Environmental
Contingency Plan applicable to testing the
Caliente Well PRC 2894.1 #2 (S.S.C.S. #2).

CALENDA	149
MEMO	2807



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES
AIR POLLUTION CONTROL DISTRICT

4440 CALLE REAL, SANTA BARBARA, CALIFORNIA 93110 PHONE (805) 964-0650

LAWRENCE HART, M.D., M.P.H.
DIRECTOR

July 25, 1979

DATE	JUL 27 1079
DJE	<input checked="" type="checkbox"/>
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ADW	<input checked="" type="checkbox"/>
RCP	
3 RC	RAK
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FILE: PRC	2894

JOHN B. ENGLISH
DIRECTOR, AIR POLLUTION CONTROL

Don Everitts, Chief
Division of Energy and Mineral Resources
State Lands Commission
100 Oceangate, Suite 300
Long Beach, CA 90802

Subject: Initial Study for Individual Oil Tests State Oil and Gas Lease
PRC 2894.1

Dear Don:

Thank you for allowing us to comment on the proposed Chevron U.S.A. Inc. well test. The Air Pollution Control District of Santa Barbara County feels that the following information should be included in the negative declaration for this project.

1. A quantification of air pollutant emissions on a normal and worst case basis for all phases of the project (vessel emissions, drilling engines, flaring, etc.) with back-up data.
2. We also feel that a plan should be developed for terminating the project either on a short term basis or indefinitely should emissions from the project (primarily hydrogen sulfide) create a nuisance or hazard to residences onshore.
3. The APCD would expect that any combustion devices using fuel oil, use a fuel oil with a sulfur content of less than 0.5%.

We would expect Chevron U.S.A. Inc. to make application to the Air Pollution Control District for any necessary Permits to Operate, which should include complete emission calculations with documentation, and procedures and engineering design for any gas scrubbing system.

If you should have any questions, please contact Keith Duval, Air Pollution Engineer, at the above number.

Very truly yours,

Lawrence Hart, M.D., M.P.H.
Air Pollution Control Officer

John B. English
Director, Air Pollution Control

JBE:ce

COLLECTOR	150
INDEXER	2608



Chevron U.S.A. Inc.
 575 Market Street, San Francisco, CA 94105
 Mail Address: P.O. Box 7643, San Francisco, CA 94120

Land Department
 Western Region

October 9, 1979

DATE	OCT 11 1979
DJE	
CFE	
ADW	
RGP	
	LTF JF
Enc.	X
FILE:	P120 2-74

Caliente Offshore
 Well Test
P.R.C. 2894.1 No. 2

Mr. John Freckman,
 Energy and Mineral
 Resources Engineer
 State Lands Commission
 100 Oceangate, Suite 300
 Long Beach, California 90802

Dear John:

As per your telephone conversation with Ms. L. L. Palmer on Tuesday, October 2, 1979, attached is the information you need to respond to the comments of the Santa Barbara Air Pollution Control District (SBAPCD) regarding Chevron's proposed test of State Well P.R.C. 2894.1 No. 2.

1. The attached pages, lifted from one of Chevron's Environmental Reports for an OCS exploratory well, contain air emissions estimates for a drilling vessel drilling an exploratory well. The emissions for a test of an existing well will be much less because there will be no drilling. Due to the well's offshore location, the minimal potential volume of pollutants needed and the temporary nature of the emissions, we feel they justify a negative declaration.
2. The vessel will use No. 2 diesel fuel, which averages a sulfur content of less than 0.5%.

If you have any questions, please contact me.

Sincerely,

Margaret C. Rourke
 Margaret C. Rourke

MCR:fv
 Attachments

- (x) Water generated from subsurface formation tests
- (xi) Brine from potable water maker

It is estimated that approximately 55,000 gallons of excess drilling mud will be disposed of during the drilling of the proposed well. A typical drilling mud will be used in the proposed exploratory well. This will contain fresh water, montmorillonite clays, barium sulfate, and additives such as caustic, organic polymers, and lignite derivatives. These additives are not highly toxic in the concentrations used. When discharged to the ocean, the mud disperses readily and the additives are diluted to undetectable levels a short distance away (Refs. 23, 24, 25, 26, 27). If the drilling mud has become contaminated with oil from a subsurface formation, it will not be discharged into the ocean but will be transported ashore and disposed of in an approved dump site.

It is estimated that 6500 cubic feet of cuttings will be generated during the drilling of the proposed well. They will contain only those constituents contained in the drilling mud. Any cuttings which might inadvertently contain entrained oil will be transported ashore to be disposed of in an approved dump site.

It is anticipated that approximately 800 cubic feet of excess mud-contaminated cement will be disposed of to the ocean, in accordance with the NPDES Permit, during the drilling of the proposed well. Cement, like drilling fluids, contains no highly toxic substances. It disperses readily in ocean water and becomes undetectable within a very short distance from the point of discharge.

For a current reference to aspects of the preceding paragraphs refer to the Ecomar, Inc. and Shell Oil Co. study at Tanner Banks (Ref. 23).

Sanitary wastes will be processed in an aeration-type sewage plant approved by the U.S. Coast Guard for marine service. The effluent will be treated with chlorine in accordance with conditions set out in the NPDES Permit. The estimated discharge is 5000 gallons per day.

The kitchen, shower, and washing-machine wastes are basically non-toxic, containing only food, soap, and biodegradable detergents and cleaning agents. These wastes are estimated to amount to 40 gals. per day per man, resulting in a total of 2800 gals. per day for a 70 man crew.

Trash and garbage (paper containers, wiping materials, etc.) will be placed in suitable portable containers which will be transported ashore for disposal in an approved dump site. An estimated 110 lbs. per day of this waste will be generated by a crew of 70 men.

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The drilling vessel is designed to contain all deck drainage and wash-down water, which will be processed in a suitable oil-water separator prior to ocean disposal. The quality of this effluent is controlled by conditions set out in the NPDES permit. It is estimated that about 1,000 gallons per day will be generated in this manner. Both sea water and fresh water will be present in this discharge.

It is estimated that engine-room drainage will range between 30 and 50 gallons per day. Normally this water will contain minimal quantities of lubricating oils. Excess oil contamination will be disposed of onshore.

Engine cooling water (non-contact) discharge will have served to cool engine water-jackets and as such will not contact any pollutants. Temperature increases will be minimal (2° - 4° F) at the design circulating rate of 2,000 gallons per minute (2,880,000 gpd).

The maximum amount of waste water generated from subsurface formation tests is estimated at 15,000 gallons for the entire operation. Any oily water derived from these tests will be transported ashore for suitable disposal in an approved dump site or processed in the deck drain oil-water separator prior to disposal of the waste water in the ocean according to applicable discharge regulations.

As a result of distilling sea water as a source of potable and domestic water, approximately 14,000 gpd of concentrated brine is produced as a by-product. This brine is non-toxic and will result in no pollution upon ocean discharge.

7.2 Gaseous Emissions

Gaseous emissions associated with this project are primarily exhaust and combustion products. The emissions will occur during the period of time it takes to drill and abandon the proposed well (estimated at 60 to 90 days). The specific emission sources include:

1. Generators used to supply power for the drilling operations.
2. Supply and crewboat engines and helicopters.
3. Drill ship movement to and from the proposed site.
4. Natural gas flaring.

In the course of evaluating the proposed well we anticipate flaring about 1500 MCF of gas during drill-stem tests. The emissions from this type of operation are generally considered to be low and because of the temporary nature of the project, are not considered significant.

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Table 3 is a summary of the estimated quantities of gaseous emissions resulting from the proposed exploratory drilling operation using EPA AP-42. Units are in pounds/hour unless otherwise indicated (Ref. 15).

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TABLE 3

	<u>CO</u>	<u>NO</u>	<u>SO</u>	<u>Unburned Hydrocarbons</u>	<u>Average Operating Time (Total Time, Hours)</u>
Prelim, site prep.	14.3	6.6	4.4	6.3	54
Drill ship movement	7.0	32.4	2.2	3.1	18
Drilling Operations*	25.3	117.6	7.9	11.1	1680
Support vessels					190
supply boats	46.7	215.0	14.3	20.5	100
crew boats	4.8	22.0	1.5	2.1	35
Helicopter	14.0	1.4	0.4	1.3	
Natural Gas					
Flaring	480.0	neg.	neg.	33.0	

*Represents average. Actual hourly rates will vary greatly depending upon the activity taking place.

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Memorandum

Date: August 16, 1979
DATE AUG 21 1979

To : Mr. D. J. Everitts, Chief
Division of Energy and Mineral Resources
State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, California 90802

DATE	AUG 21 1979
1 DJE	/
CFE	
2 ADW	A
RCP	
3 RK	RAK
4 JTF	JTF
Enc.	
FILE:	
PROC:	

From : Department of Fish and Game - MRR - Long Beach

Subject: Initial Study for Individual Well Test State Oil and Gas Lease

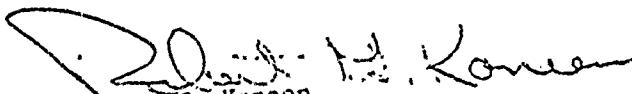
We have reviewed the subject Initial Study for the testing of an existing well (S.S.C.S. No. 2), located in the Caliente Offshore Field, Santa Barbara County, by Chevron U.S.A., Incorporated.

Regarding impacts to marine resources which may be caused by this project, our only concern is for impacts which may result from well blowout and oil spills. To reduce the impact of oil spills upon marine resources, we recommend on-site containment and cleanup equipment be aboard the drill ship or immediately available. This equipment, in our opinion, should consist of at least the following items:

1. 1500-feet of oil containment boom.
2. A boat, capable of deploying the boom, to be continuously available on site or to be available on site within fifteen minutes to accomplish this task.
3. A skimmer capable of recovering up to 50 barrels per hour of oil.
4. A storage tank to hold recovered oil from the skimmer.
5. Sorbent material in an amount sufficient to handle 15 barrels of oil.

If this equipment is available aboard the on-site drilling vessel, we would not object to a Negative Declaration for this project.

If you have any questions, please contact Mr. R. E. Mall, Environmental Services Supervisor. The phone number is (213) 590-5155.


Robert G. Kaneen
Regional Manager

VCS

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2613

CHEVRON U.S.A. - LA HABRA, CALIFORNIA

Oil Spill Equipment and Materials Inventory
To Be Contained On The Drilling Vessel While Testing Caliente #2

- 1 Model 1011-OS Floating oil skimmer with 1-1/2 HP 115/230
volt Class 1 Group D explosion proof GE motor
- 1 Homelite Generator #176A 35-1 3,500 watts w/spark
arrester
- 1,500 Feet, #3-12.24 Floating Barrier as manufactured by Oil Spill
Services w/12" fence and 2" skirt and 3/8" chain
- 6 Bales, Corwed Sorbent Booms (240 feet)
- 2 Bales, Corwed Sorbent Continuous Sweeps
- 2 Boxes, Corwed Sorbent Regular Sweeps
- 4 Hudson Ozark Sprayers
- 10 Drums, Corexit dispersant (Concentrated)
- 3 Drums, Shell "Herder"

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STATE OF CALIFORNIA

California Coastal Commission

SOUTH CENTRAL COAST REGIONAL COMMISSION

735 STATE STREET
MALBOA BUILDING, SUITE 612
SANTA BARBARA, CA 93101

August 6, 1979

DATE	AUG 7 - 1979
1 DJE	<input checked="" type="checkbox"/>
CFE	<input type="checkbox"/>
3 ADW	<input checked="" type="checkbox"/>
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3 RK	<input checked="" type="checkbox"/>
4 JTF	<input checked="" type="checkbox"/>
Enc.	<input checked="" type="checkbox"/>
FILE:	<input checked="" type="checkbox"/>

W 40109

E.J. Everitts, Chief
Division of Energy and Mineral Resources
State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, CA 90802

Dear Mr. Everitts:

This is in response to your request of July 20, seeking comments on the Initial Study, preparatory to a negative declaration, for testing of an existing well, Caliente #2 located on State Lease PRC 2894.1. We have already been approached on this matter by Chevron (attached). Our response (attached) was based on consultations between your agency and our State office, leading to our determination that this activity had no "risk of substantial adverse environmental impact" and could be considered as routine repair and maintenance within the meaning of section 30510(c) of the Coastal Act. Your Initial Study does not contradict this determination.

While we have no further comments, we do appreciate such information and hope to continue such contacts in the future.

Sincerely,
Carl C. Hetrick
Carl C. Hetrick
Executive Director

CCH/MB/eg
cc: Mari Gottdiener, State Office

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Letter to Chari Gottliener @ State Office

Chevron U.S.A. Inc.
P. O. Box 606, La Habra, CA 90631 • Phone (213) 694-7140

June 20, 1979

Caliente #2
State Lease PRC 2894.1
Offshore
Santa Barbara County

RECEIVED

JUN 25

CALIF.
COASTAL C.
South Central

Mr. Carl C. Hetrick
Regional Executive Director
South Central Regional Coast Commission
1224 Coast Village Circle, Suite 36
Santa Barbara, California 93108

Dear Mr. Hetrick:

Chevron U.S.A. Inc. is the Operator of Caliente State #2 Well located on State Lease PRC 2894.1. This well was drilled in 1964 and completed on the ocean bottom at the approximate location shown on the attached plat. Chevron has filed an application with the State Lands Commission covering its proposal to abandon the Vaqueros Zone and to plug back and test the shallower Monterey Zone formation. The well will then be suspended or abandoned, depending upon the results of the test.

This operation will be continued from a mobile drilling vessel which will be on location for approximately 27 days and will thereafter leave the location. This operation is categorized by the State Lands Commission as a remedial operation as it will be performed within the well bore and involves no additional drilling. The operation will not result in any addition to, enlargement or expansion of the proposed well and will have no significant environmental impact.

Based upon the Interpretive Guidelines adopted by the State Coastal Commission on September 5, 1978, we submit that Chevron's proposed operation is excluded from State Coastal Permit Requirements under Section 30610(c) of the Coastal Act which provides in part that "no coastal development permit shall be required for repair or maintenance activities that do not result in an addition to, or enlargement or expansion of, the object of such repair or maintenance activities".

In the alternative, we submit that Chevron's proposed operation, as described above, is exempt from Coastal Permit Requirements under Section 30603 of the Public Resources Code as Chevron has a vested right to test the Caliente Well #2, within the existing well which was authorized for drilling by the State of California, and drilled prior to the effective date of the California Coastal Zone Conservation Act.

Please advise if you require any additional information in support of Chevron's claim for exemption as noted above. If not, we request that you advise us of your concurrence in writing.

Very truly yours,

Margaret L. Bourke
Margaret L. Bourke

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2616

NCL:rn
Attachment

File

EDMUND G. BROWN III, Governor



OF CALIFORNIA
California Coastal Commission
SOUTH CENTRAL COAST REGIONAL COMMISSION
1224 COAST VILLAGE CIRCLE, SUITE 36
LA BARBARA, CALIFORNIA 93108
969 5828

June 28, 1979

Margaret C. Rourke
Chevron U.S.A., Inc.
P.O. Box 606
La Habra, CA 90631

Dear Ms. Rourke:

This is in response to your inquiry as to the need for a Coastal permit for testing and suspending or abandoning a portion of Caliente State #2 Well located on State Lease PRC 2894.1. In consultation with our State Office, I have determined that this action would be repair and maintenance within the meaning of PRC Section 30610 (c). As determined by the State Lands Commission, the operation will be within the existing well bore and casing. Consequently, there is no "risk of substantial adverse environmental impact" within the meaning of Section 30610 (c).

Sincerely,

Carl C. Hetrick
Executive Director

CCH/MB/eg
cc: Mari Gottdiener, State Office

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State of California

THE RESOURCES AGENCY OF CALIFORNIA

Memorandum

Date : August 1, 1979

State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, CA 90802
Attn: D.J. Everitts, Chief
Energy and Mineral Resources Division

Subject: Negative Declaration
Chevron U.S.A. Inc.
Well No. "SSCS 2894" 2
Caliente Offshore Gas
Field

From : Department of Conservation — Division of Oil and Gas
Sacramento

A complete review of this well was made in preparing our report No. P179-3004 on March 14, 1979. We concur that a Negative Declaration as outlined by your initial study of the proposed operation is warranted.

M.G. Hefferd
M.G. Hefferd
State Oil and Gas Supervisor

MGM:RFC:pw

DATE	AUG 8 1979
1 DJE	<input checked="" type="checkbox"/>
CVE	<input type="checkbox"/>
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RCP	<input type="checkbox"/>
5 CPP	<input checked="" type="checkbox"/>
YRK	<input checked="" type="checkbox"/>
3 JTF	<input checked="" type="checkbox"/>
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2618



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Pacific OCS Office
300 N. Los Angeles St., Rm. 7127
Los Angeles, California 90012

IN REPLY REFER TO

1782

AUG 9 1979

Mr. D. J. Everitts
Chief, Division of Energy and Mineral Resources
State Lands Commission
100 Oceangate, Suite 300
Long Beach, CA 90802

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DJE		
CFE		
VADW		
RGP		
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FILE W 40109		

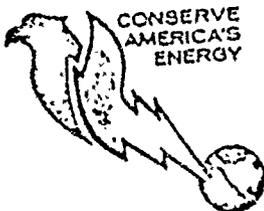
Dear Mr. Everitts:

In response to your July 20, 1979 letter, we have reviewed the Initial Study for Individual Well Test State Oil and Gas Lease PRC 2894.1, and offer no comment.

Thank you for giving us the opportunity to review the application.

Sincerely,

ACTING Manager



Save Energy and You Serve America!

DATE INVOICE	162
AMOUNT	25.19



United States Department of the Interior
GEOLOGICAL SURVEY

160 FEDERAL BUILDING
1340 W. SIXTH STREET
LOS ANGELES, CALIFORNIA 90017

DATE	AUG 20 1979
1	DJE ✓
	CFE
2	ADW ✓
	RGP
3	RK ✓
4	JTF ✓
Enc.	
FILE:	W 40109

August 16, 1979

Mr. D. J. Everitts, Chief
Division of Energy and Mineral Resources
State Lands Commission
100 Occangate - Suite 300
Long Beach, California 90802

Subject: Initial Study for Individual Well Test
State Oil and Gas Lease PRC 2894.1
File Ref: W 40109

Dear Mr. Everitts:

Thank you for the opportunity to review the subject Initial Study. This office has no comments to offer. We appreciate the opportunity for consultation.

Sincerely yours,

F. J. Schambeck
F. J. Schambeck
Oil and Gas Supervisor
Pacific Area



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

163
2520



DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

MAILING ADDRESS:
COMMANDER (OCS)
ELEVENTH COAST GUARD DISTRICT
UNION BANK BLDG.
400 OCEANGATE
LONG BEACH, CA. 90822

DATE	AUG 20 1979
1 DJE	✓
CFE	
2 ADW	-A-
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3 RF	RAK
4 JF	WH
Enc.	
FILE:	W 40109

164 7
16 August 1979

State Lands Commission
100 Oceangate Suite 300
Long beach, CA 90802

Ref. File Number W40109

Dear Sir:

Your letter of 20 July 1979 requested comments concerning a negative declaration for Chevron U.S.A., INC., proposed well test on State Oil and Gas Lease PRC 2894.1. I have reviewed the initial study and agree that no lasting or substantial adverse impact on the environment will occur as a result of this project.

This office must be advised at least 30 days prior to the commencement of on-site operations to insure that proper Notice to Mariners have been issued and that the drilling unit complies with the aids to navigation requirements of 33 CFR 67.20.

Sincerely,

D.M. TAUB
Captain, U.S. Coast Guard
Chief, Marine Safety Division
Eleventh Coast Guard District
By direction of the District Commander

Copy To: Chevron U.S.A., INC.
1253 Coast Village Road, Suite 102
Santa Barbara, CA 93108

MAILED 20 AUG 1979

RECEIVED
16 AUG 1979
SECT. 164

164
2621

July 11, 1979

STATE OF CALIFORNIA
STATE LANDS COMMISSION

INITIAL STUDY FOR INDIVIDUAL WELL TEST
STATE OIL AND GAS LEASE PRC 2894.1

CHEVRON U.S.A., INC.
Caliente Offshore Field, Santa Barbara County

1. Project and Its Location

Chevron U.S.A., Inc., lessee of State Oil and Gas Lease PRC 2894.1, is planning to conduct a test of an existing well (S.S.C.S. No. 2) by perforating specific intervals of a shallow zone already drilled through and excluded behind cemented casing and measuring any production obtained. Lease PRC 2894.1 is an offshore oil and gas lease located in the Santa Barbara Channel, 27 miles west of Santa Barbara, 11 miles southwest of Solvang, and 17 miles southeast of Lompoc (See Exhibit "A"). The lease, originally issued in 1962, contains approximately 4,250 acres.

Proposed testing would be from a floating drillship. There are only two wells on the lease, both of them sub-sea completions producing natural gas. They are located approximately two miles offshore (southerly) of Gaviota Beach State Park. The wells are connected via subsea pipelines to adjacent State Oil & Gas Lease PRC 2199.1, also held by Chevron U.S.A. Production from both PRC 2894.1 and PRC 2199.1 is transported to shore via subsea pipeline to Chevron's Gaviota Gas Processing Plant.

No oil is produced on Lease PRC 2894.1. Total gas produced through April 1979, is approximately 32,277,338 MCF. Well No. 2, the well to be tested, produced from November 1964 through March 1973 except for a period from August 1970 to June 1972. Well No. 1 has been producing since February 1963. Current royalty to the State from PRC 2894.1 is approximately \$1,500/month.

2. Purpose of the Project

The purpose of the project is to provide the lessee with data to evaluate the potential of the Monterey Zone for the possible production of oil and additional gas. The Monterey Zone is oil

DATE	1979
NO.	165
TOTAL	2622

productive at the South Ellwood Offshore Field (Platform "Holly"), 19 miles to the east, and at the Hondo Field, 7 miles to the southeast.

3. Description of the Proposed Work

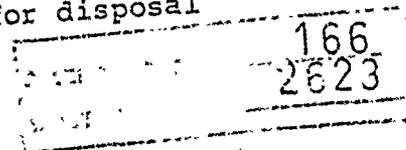
History of the Well

The well (S.S.C.S. No. 2) was originally drilled by Standard Oil Company of California (Now Chevron) in January 1964, from the drilling barge "CUSS I". Initially drilled to a depth of 4,465 feet; it was subsequently plugged back to 2,060 feet, redrilled to 6,643 feet and then suspended uncompleted (3/8/64). The well was subsequently completed during August 1964, using the "WODECO III". The Vaqueros and Upper Sespe Zones were selectively perforated in the interval 6,105 - 6,322 feet. The well was brought in as a subsea completion and had an initial production rate of approximately 8,600 Mcf/D. The well produced, except for a period from August 1970 to June 1972, until March 1973 when it was shut in with a final production rate of 783 Mcf/D and 1,250 BWPD. In March 1975 the lower perforations were plugged off to exclude water and an attempt was made to place the well on production; however, the well did not produce and it was left shut in as uneconomic to operate.

Proposed Work

The current proposal is to plug off the Vaqueros Zone and then to perforate and test selected intervals within the Monterey Zone, from 2,650 feet to 4,180 feet. Chevron proposes to individually perforate and drill stem test each of four separate intervals of 200 to 250 feet. After abandoning the lower part of the well, Chevron will plug back to below the bottom of each of the proposed test intervals, perforate and test the interval. The test will use conventional drill stem test equipment. The testing period will take between 8 and 24 hours per interval, with all testing to be done in the daylight hours. Therefore, actual testing of all four intervals should take between 4 and 12 days, with the drillship being present at the test site a maximum of two to four weeks.

All production from the test would be taken through a test trap to facilities for metering the produced fluids. Water and oil would flow to storage tanks on an adjacent barge, to be later transported to Platform "Hazel" for disposal



through existing facilities. Gas from the trap would be flared a safe distance from the production and test facilities. Tank vapors would be vented from the derrick crown.

4. Present Environment

The existing environment in the area of the lease is one of the Pacific Ocean and the steep slopes of the coastal mountains separated by a narrow sandy beach. The State Offshore lands from Point Conception to Goleta Point, a distance of approximately 37 miles, have all been leased for oil and gas production. Currently there are 25 active oil and gas leases in this area.

There are no onshore oil and gas facilities immediately adjoining the lease. The nearest onshore facility (Chevron's Gaviota Gas Processing Plant) is located approximately $1\frac{1}{2}$ miles east of the lease, onshore of adjacent State Oil and Gas Lease PRC 2199.1.

Onshore of PRC 2894.1 and west of Gaviota Beach State Park are scattered several residences on what was formerly the Hollister Ranch. These homes are located mainly on the bluffs overlooking the Pacific Ocean. Gaviota Beach State Park has campground facilities including 59 overnight campsites, a boat launching facility, and a 500' fishing pier.

Geologic Environment

The project site lies offshore on the Mainland Shelf in the Santa Barbara Channel. The Mainland Shelf, a sub-marine terrace that parallels the coastline and extends three to four statute miles offshore, is bounded by Point Conception to the west, Santa Barbara to the east, and the Goleta Slope to the south.

The dominant structural feature of the zone to be tested is that of a double plunging anticline that exists on the Molino trend, a regional anticline which extends for about ten statute miles from Molino Offshore Gas Field on the east to the south branch of the Santa Ynez fault on the west. The Caliente Offshore Field is in the central area of this trend.

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PROPERTY	2624

5. Environmental Impact of the Proposed Project

The impact of the proposed project on the present environment will be minimal and temporary in duration. Since all activity conducted pursuant to this project will occur approximately two miles offshore, the onshore impacts will be negligible. There is a possibility of a minimal increase in noise pollution during the expected two to four weeks duration of the project, mainly from the helicopter that will be used to access the drillship. Noise caused by well testing operations will be practically inaudible onshore.

It is probable that gas produced during the test will contain some amount of hydrogen sulfide. Chevron will be required to observe federal requirements listed in "Outer Continental Shelf Standards, Safety Requirements for Drilling Operations in a Hydrogen Sulfide Environment, U.S.G.S. Outer Continental Shelf Standard No. 1 (G.S.S.-O.C.S. -1)". Additionally, Chevron's procedures for scrubbing and sweetening any produced gas to be flared will have to be approved by the Santa Barbara County Air Pollution Control District. (See Appendix I and Appendix II for details of Chevron's provisions and Santa Barbara County requirements.) Appendixes I and II address S.S.C.S. #1, but can be applied equally to S.S.C.S. #2, the well now under consideration for testing.

6. Any Adverse Effects that Cannot be Avoided if the Proposal is Implemented

- (a) Because the proposed testing program will be temporary in nature, and conducted in an area that has long since been involved in oil and gas production, it is felt that no lasting or substantial adverse impact on the environment will occur as a result of this project.
- (b) Outside activity level, except in the immediate locality of the drillship, will not be affected by the proposed operations. The movement of equipment, men and materials necessary to carry out the proposed work during the estimated two to four week period can be accomplished without any significant interference with normal tourist or residential lifestyles.

CHIEF ENGINEER	168
DATE	2625

7. Mitigating Measures Proposed to Minimize the Impact

Connected with the proposed testing program, the applicant has submitted a "Proposal for Well Operations - Program to Evaluate Monterey Zone", Contingency Plan for H₂S and SO₂ in Drilling Operations", "Critical Operations and Curtailment Plan", and an "Environmental Contingency Plan". An Addenda to the "Environmental Contingency Plan" has been incorporated which includes an "Oil Spill Equipment and Materials Inventory" maintained on the drilling vessel and a description of critical operations and curtailment plan applicable to this test, all of which conform to State Lands Commission procedures.

8. Alternatives to the Proposed Action

There are two alternatives to conducting the tests as proposed in existing Well No. 2. The first alternative is to drill a new well in the vicinity of Well No. 2, and test any production encountered from the Monterey Zone. Drilling an entirely new well would have greater environmental consequences than simply testing an existing well. The other alternative-not testing for possible production-would arbitrarily eliminate the possibility of increased oil and gas production from an area of known potential.

9. The Relationship Between Local Short-Term Use of Man's Environment and Maintenance and Enhancement of Long-Term Productivity

The testing of one well for possible oil and gas production will have no significant short-term affect on the local environment. The floating drillship will only be present for two to four weeks, after which there will be no visible signs that the test was conducted.

10. Any Irreversible Environmental Changes that Would Be Involved if the Proposed Action Should be Implemented

No irreversible environmental changes in the subject area will be created by the implementation of the proposed action. Approval of this project is approval of a testing program only. If test results prove negative, i.e., economic production of oil and gas from the Monterey Zone is not feasible, then the well may be abandoned. If test results indicate that production of oil and gas from the Monterey Zone is economically viable, then Chevron would have to

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Install additional facilities to handle the production, besides drilling additional wells. This would require State Lands Commission approval for the resumption of drilling and the construction of new facilities. Before such approvals would be granted, an Environmental Impact Report discussing all aspects of Chevron's proposals would be prepared by the Commission.

11. The Growth Inducing Impact of the Proposed Action

There will be no growth-inducing impact of the proposed action on the subject area as the project is simply a test to determine if oil and gas production is economically feasible. Any possible growth-inducing impact of increased oil and gas production from the subject area would be discussed in the EIR to be prepared if test results prove positive.

12. Water Quality Aspects

The anticipated formation water and oil to be produced in the test will flow from the test trap to storage tanks on an adjacent barge to be later transported to Platform "Hazel" for disposal through the existing crude oil facilities. Platform "Hazel" is located approximately 35 miles southeast of PRC 2894.1 in the Summerland Offshore Oil Field.

All proposed work connected with the project will be conducted in accordance with the discharge requirements established by the Regional Water Quality Control Board and all rules and regulations for the prevention of degradation of water quality.

13. Economic and Social Factors

There would be no apparent present or future social affect caused by implementation of the proposed project. As stated in Item 6, Item 10 and Item 11, there would be no growth-inducing or adverse impact on the subject area.

No apparent economic effect will be caused since the proposed implementation will only be a testing program. Should the test prove positive, there would be a definite economic effect of full-scale oil and gas production. This would be discussed in an EIR that would be required for any proposed development.

DATE	170
NUMBER	2627

14. Agencies or Persons Contacted

California Air Resources Board
South Central Regional Coastal Commission
California Division of Oil and Gas
California Department of Fish and Game
California Department of Justice
California Department of Parks & Recreation
California Solid Waste Management Board
Regional Water Quality Control Board - San Luis Obispo
O.P.R. - Clearinghouse, Attention: Laurie Wright
Honorable Omer L. Rains - California State Senator - 18th Dist.
Honorable Gary K. Hart - California State Assemblyman - 35th Dist.
Santa Barbara County Department of Environmental Quality
Santa Barbara County Air Pollution Control District
Chairman, Board of Supervisors, County of Santa Barbara
City Attorney, Santa Barbara, California
Commander, 11th Coast Guard District
U.S. Fish and Wildlife Service
Environmental Protection Agency
Bureau of Land Management
U.S. Corps of Engineers
U.S. Geological Survey
Chevron U.S.A., Inc., La Habra, California

CALENDAR	171
MINUTE FILE	2628

EXHIBIT "A"
PROJECT LOCATION MAP

PRC 2894.1
W40109

VENTURA COUNTY

VENTURA

SANTA BARBARA

PLATFORM "HAZE"

PLATFORM "HOLLY"

SANTA BARBARA COUNTY

SOLVANG

CHEVRON'S GAVIOTA GAS PROCESSING PLANT

PLATFORM "HONDO"

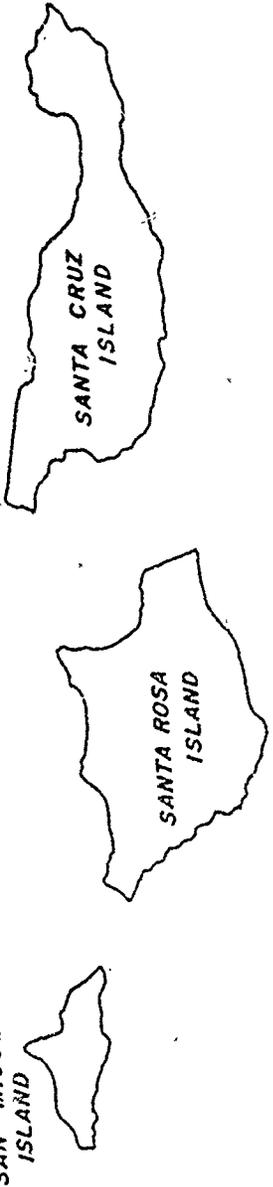
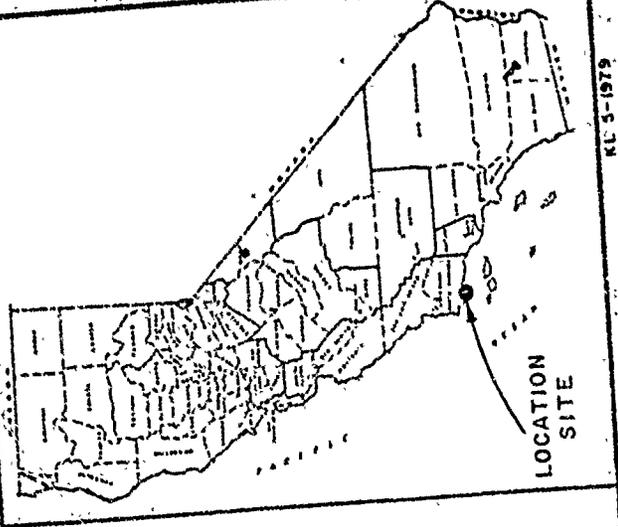
GAVIOTA BEACH STATE PARK

PRC 2199.1

Point Conception

STATE OIL & GAS
LEASE PRC 2894.1

SANTA BARBARA CHANNEL



LEGEND
= STATE OFFSHORE LEASES



DATE DURING: 372
APPROVED BY: 2699



Chevron U.S.A. Inc.

Appendix I

1253 Coast Village Road, Suite 102
Santa Barbara, California 93108

June 29, 1978

Mr. John B. English
Air Pollution Control District
Health Care Services
Santa Barbara County
4440 Calle Real
Santa Barbara, CA 93110

Dear Mr. English:

Chevron U.S.A. is proposing a test from an existing well, S.S.C.S. #1, in the Gaviota Area. The well is located approximately two miles from shore at coordinates 349,440 N. , 1,328,429 E. The well will be perforated in a zone that has not previously been tested. It is not known how much, if any, hydrocarbon will be recovered from these new perforations. The zone to be perforated is the Monterey Formation. The Monterey Formation is known to contain H₂S in some areas of the Santa Barbara Channel. All work will be done from a floating vessel.

During testing of the well, provisions for burning the gas will be made. Chevron proposes that the burners used to be the same as burners approved by the U.S.G.S. and Coast Guard for use in this type of operation in federal waters.

There may be two or three tests made and each test will be conducted during daylight hours only. I estimate the test period to be four to eight hours per test.

The gas will pass through two gas/oil separators to remove all liquids. If H₂S is encountered the gas will pass through a third vessel containing Di-Chem 726, (formaldehyde) to remove the sulfur content. One gallon of Di-Chem 726 will remove 2 pounds of sulfur. The estimated maximum gas production rate is 500 MCF/D or 166 MCF for an 8 hours test, the highest concentration of H₂S is estimated to be 3000 PPM. This would require 47 lbs. of sulfur to be removed. Sweet gas will be available through existing pipelines from shore to sweeten the gas if necessary.

The liquid will be stored in a barge tied to the vessel. The barge will be vented up the leg of the derrick. The well test could produce 225 barrels of liquid (oil and water) per test. Any liquid will be disposed of through the existing crude handling system on platform Hazel.

If Chevron is unable to meet A.P.C.D. regulations the test will be discontinued.

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MINUTE PAGE	2630

Chevron is interested in conducting these tests as soon as possible and has applied to the California State Lands Department for a permit to conduct the test. Meeting A.P.C.D. regulations is one of the permit requirements.

Under the above conditions please advise us of requirements, if any, by the A.P.C.D. to conduct such tests. If there are any questions please contact Mr J.R. Herring at (805) 969-5304.

Yours truly,

W. H. Ryherd
JHR

W.H. Ryherd

JRH;db

CALENDAR PAGE	174
MINUTE PAGE	263



LAWRENCE HART, M.D., M.P.H.
DIRECTOR

Appendix II
COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES
AIR POLLUTION CONTROL DISTRICT
4443 CALLE REAL, SANTA BARBARA, CALIFORNIA 93110 • PHONE (805) 968 2632

JOHN B. ENGLISH
DIRECTOR, AIR POLLUTION CONTROL

July 18, 1978

Mr. W. H. Ryherd
Chevron U.S.A., Inc.
1253 Coast Village Road, Suite 102
Santa Barbara, CA 93108

Dear Mr. Ryherd:

Sorry for the delay in answering your letter which we received on July 5, 1978 regarding the testing of existing well S.S.C.S. #1 in the Gaviota Area. In further discussions in reference to this well with Mr. John Herring on July 18th, I understand this well is roughly 2 1/2 miles offshore and, as the letter indicates, you will have an H₂S scrubbing capability on a barge removing the sulfur content of the gas. The sulfur content should be removed to the level required by our Rule 32.1 and the emissions should be controlled at the level required under Rule 9.1. Effluent oil/water separators should meet the requirements of Rule 29 which indicates that any equipment operating, storing, refining or processing hydrocarbons with a Reid vapor pressure of 0.5 pounds or greater shall be equipped with a vapor loss control device except when gauging or sampling. If you are recovering oil from effluent water which recovers 200 gallons or more a day of any petroleum product, such equipment shall have solid covers on all openings, totally enclosed liquid contents compartment with a floating pontoon or double deck type cover equipped on the closure seals or a vapor recovery system which reduces the emissions of all hydrocarbon vapors and gases into the atmosphere by at least 90% by weight and, as you have indicated, other equipment of efficiency equal to or greater than any of these requirements may be approved by this office. However, we must have the full design and detail of this equipment with your application for this testing program. You are exempt from this particular rule if the oil effluent water separator used is exclusively in conjunction with the production of crude oil providing that the water fraction of the oil water effluent entering the separator contains less than 5 ppm hydrogen sulfide, organic sulfides or a combination thereof. You indicate that the burners used during the testing program will be the same as burners approved by USGS. We would add that the requirement of Rule 32 should also be met, in conjunction with burning any gas at this site.

I will pass this information on to John Herring if he calls me back on July 19th since I was not able to reach him this p.m. I look forward

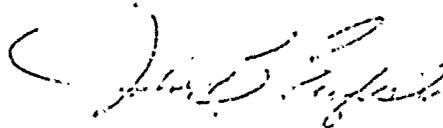
CALIFORNIA	175
MINUTE PAGE	2632

Mr. W. H. Ryherd, Chevron
July 18, 1978

to your applications for the project and have included application forms for same. I will ask our secretary to establish an application file for this particular project labeled Chevron U.S.A. Inc., S.S.C.S. #1 - Gaviota Area Floating Facility Test Program - Coordinates 349,440 North/1,328,429 East - (approximately 2 miles from shore).

Very truly yours,

Lawrence Hart, M.D., M.P.H.
Air Pollution Control Officer



John B. English
Director, Air Pollution Control

JBE:ce
Enc: Application Forms

cc: New File

SEARCHED	176
INDEXED	2033
SERIAL PAGE	

DATE: 10/15/79

NOTICE

A regular meeting of the State Lands Commission has been scheduled for Nov., 1979, at _____ a.m. (p.m.), in Room _____ of _____

Among the items to be considered at this meeting will be an application from CHEVRON U.S.A. INC.

to test an existing well (S.S.C.S #2) on
STATE OIL AND GAS LEASE PRC 2894.1

In accordance with Division 13 of the Public Resources Code, () a negative declaration identified as EIR ND _____ () an Environmental Impact Report identified as EIR _____ has been prepared) AND () is attached for your information.) () may be obtained from Ted T. Fukushima, 1807 - 13th Street, Sacramento, CA 95814.)

WILLIAM F. NORTHROP
Executive Officer

178
2F35

EXHIBIT "B"

PROJECT LOCATION MAP

PRC 2894.1

W40109

SOLVANG

SANTA BARBARA COUNTY

GAVIOTA BEACH STATE PARK

Point Conception

PRC 2199.1
CHEVRON'S GAVIOTA GAS PROCESSING PLANT

SANTA BARBARA

VENTURA COUNTY

VENTURA

PLATFORM "HAZEL"

PLATFORM "HOLLY"

PLATFORM "HONDO"

STATE OIL & GAS LEASE PRC 2894.1

SANTA BARBARA CHANNEL

SANTA BARBARA CHANNEL

SANTA BARBARA CHANNEL

SAN MIGUEL ISLAND

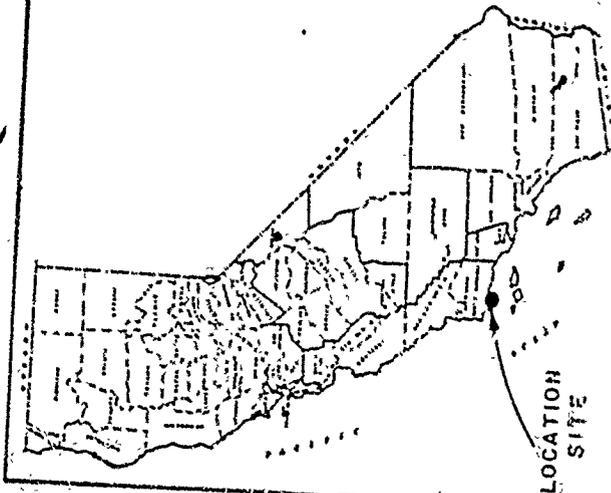
SANTA CRUZ ISLAND

SANTA ROSA ISLAND

LEGEND

STATE OFFSHORE LEASES

0 3 6 9 Miles



KI 5-1979

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