

CALENDAR ITEM
C55

MINUTE ITEM
This Calendar Item No. C55
was approved as Minute Item
No. 35 by the State Lands
Commission by a vote of 3
to 0 at its 10/17/95
meeting.

A 11

S 7

ISSUANCE OF A GENERAL LEASE-
RIGHT OF WAY USE

10/17/95
W 25235
PRC 7859 N. Smith

APPLICANT:

Chevron U.S.A., Inc.
5080 California Avenue, Suite 400
Bakersfield, California 93309-1671

AREA, TYPE LAND AND LOCATION:

A parcel of tide and submerged across Pacheco Slough near the City of Martinez, Contra Costa County.

LAND USE:

Modification and reactivation of an existing 8" pipeline to transport refined petroleum products.

LEASE TERMS:

Lease period:

Twenty-five years beginning September 20, 1995.

Surety bond:

\$50,000.

Public liability insurance:

Combined single limit coverage of \$1,000,000.

Consideration:

\$100 per annum; with the State reserving the right to fix a different rental on each fifth anniversary of the Lease.

BASIS FOR CONSIDERATION:

Pursuant to 2 Cal. Code Regs. 2003.

APPLICANT STATUS:

Applicant is permittee of upland.

PREREQUISITE CONDITIONS, FEES AND EXPENSES:

Filing fee, processing costs, and environmental costs have been received.

STATUTORY AND OTHER REFERENCES:

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

AB 884:

02/26/95

OTHER PERTINENT INFORMATION:

1. Chevron proposes to modify and reactivate an existing 8" pipeline that was constructed in 1970, and repair two other pipelines within this existing pipeline corridor. Since the rights-of-way for the pipelines have not been previously leased to Chevron by the Commission, staff proposes the Commission consider the approval of the reactivation of the 8" pipeline, known as the Tosco-Richmond Products Pipeline, and to allow repair of two other pipelines within the existing corridor in Pacheco Slough with a lease application for the pipelines to be filed by Chevron within six months.
2. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (14 Cal. Code Regs. 15025), the staff has prepared a Proposed Negative Declaration identified as ND 671, State Clearinghouse No. 95083031. Such Proposed Negative Declaration was prepared and circulated for public review pursuant to the provisions of CEQA.

Based upon the Initial Study, the Proposed Negative Declaration, and the comments received in response thereto, there is no substantial evidence that the project will have a significant effect on the environment. (14 Cal. Code Regs. 15074(b)) A Mitigation Monitoring Plan has been prepared in conformance with the provisions of the CEQA. (Public Resources Code Section 21081.6)

3. This activity involves lands which have NOT been identified as possessing significant environmental values pursuant to P.R.C. 6370, et seq. However, the Commission has declared that all tide and submerged lands are "significant" by nature of their public ownership (as opposed to "environmentally significant"). Since such declaration of

CALENDAR ITEM NO. C55 (CONT'D)

significance is not based upon the requirements and criteria of P.R.C. 6370, et seq., use classifications for such lands have not been designated. Therefore, the finding of the project's consistency with the use classification as required by 2 Cal. Code Regs. 2954 is not applicable.

APPROVALS OBTAINED:

U.S. Army Corps of Engineers, Contra Costa County Planning Department, and the San Francisco Bay Regional Water Quality Control Board.

FURTHER APPROVALS REQUIRED:

State Lands Commission .

EXHIBITS:

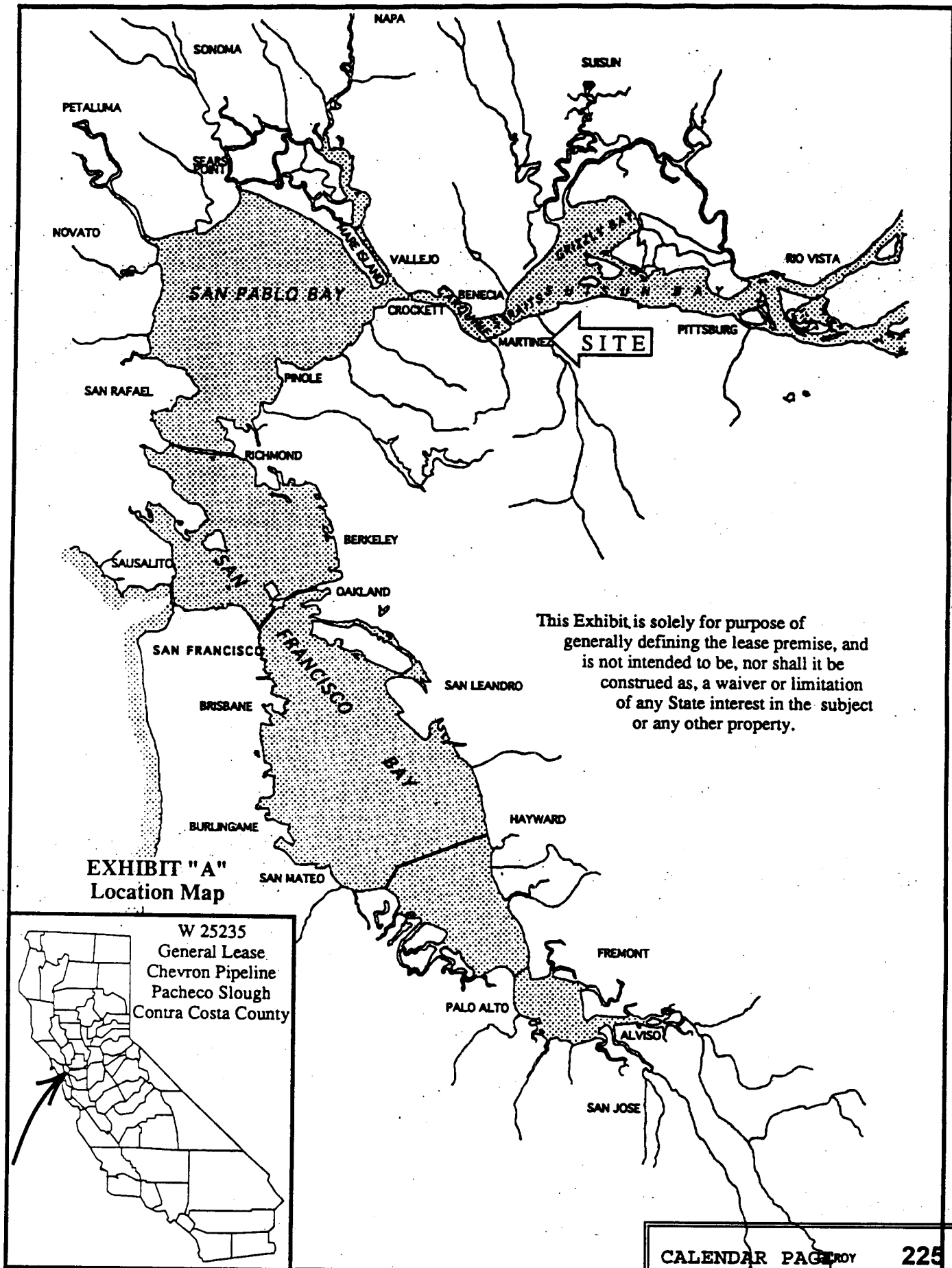
- A. Location Map
- B. Site Map
- C. Negative Declaration
- D. Monitoring Plan

IT IS RECOMMENDED THAT THE COMMISSION:

1. CERTIFY THAT A PROPOSED NEGATIVE DECLARATION, ND 671, STATE CLEARINGHOUSE NO. 95083031, WAS PREPARED FOR THIS PROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
2. ADOPT THE NEGATIVE DECLARATION AND DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
3. ADOPT THE MITIGATION MONITORING PLAN, AS CONTAINED IN EXHIBIT "D", ATTACHED HERETO.
4. AUTHORIZE ISSUANCE TO CHEVRON, U.S.A., INC. OF A TWENTY-FIVE-YEAR GENERAL LEASE-RIGHT OF WAY USE BEGINNING SEPTEMBER 20, 1995; IN CONSIDERATION OF ANNUAL RENT IN THE AMOUNT OF \$100, WITH THE STATE RESERVING THE RIGHT TO FIX A DIFFERENT RENTAL ON EACH FIFTH ANNIVERSARY OF THE LEASE; PROVISION OF A \$50,000 SURETY BOND; PROVISION OF PUBLIC LIABILITY INSURANCE FOR COMBINED SINGLE LIMIT

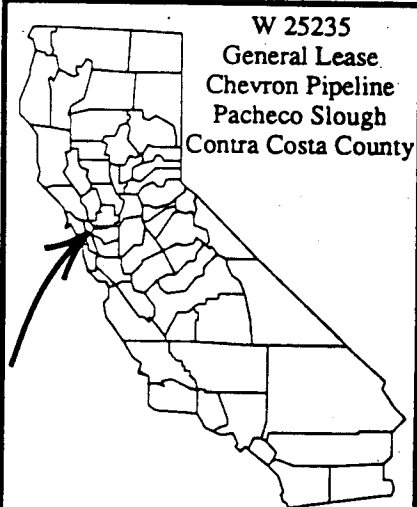
COVERAGE OF \$1,000,000; FOR REACTIVATION OF AN EXISTING 8" PIPELINE CROSSING PACHECO SLOUGH ON THE LAND DESCRIBED ON EXHIBIT "A" ATTACHED AND BY REFERENCE MADE A PART HEREOF.

5. AUTHORIZE CHEVRON TO REPAIR TWO OTHER PIPELINES WITHIN THIS PIPELINE CORRIDOR ACROSS PACHECO SLOUGH.



This Exhibit is solely for purpose of generally defining the lease premise, and is not intended to be, nor shall it be construed as, a waiver or limitation of any State interest in the subject or any other property.

EXHIBIT "A"
Location Map



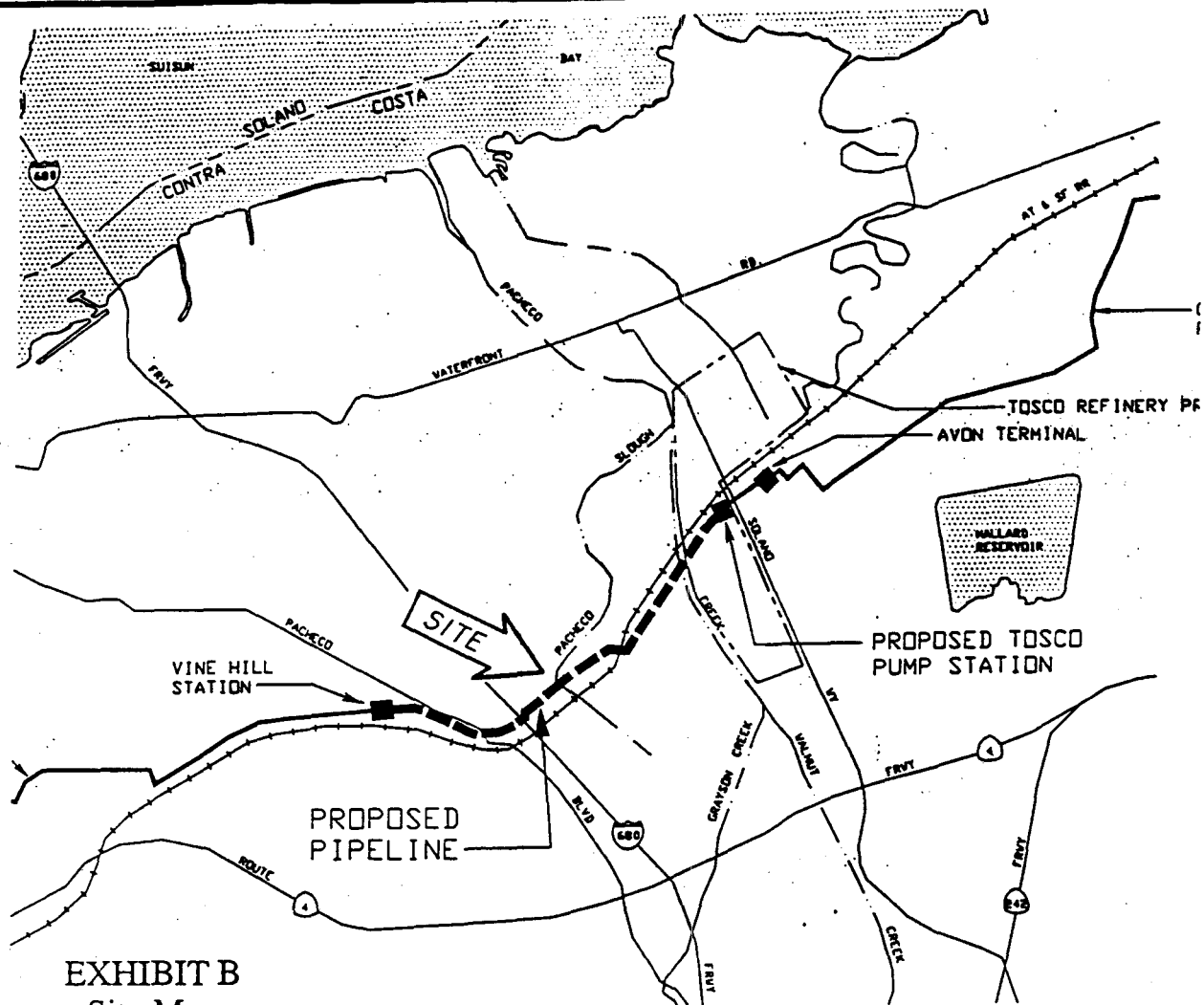


EXHIBIT B
Site Map

W 25235
General Lease
Chevron Pipeline
Pacheco Slough
Contra Costa County



This Exhibit is solely for purpose of generally defining the lease premise, and is not intended to be, nor shall it be construed as, a waiver or limitation of any State interest in the subject or any other property.

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**CALIFORNIA STATE
LANDS COMMISSION**

GRAY DAVIS, *Lieutenant Governor*
KATHLEEN CONNELL, *Controller*
RUSSELL S. GOULD, *Director of Finance*



EXECUTIVE OFFICE
100 Howe Avenue, Suite 100-South
Sacramento, CA 95825-8202

ROBERT C. HIGHT, Executive Officer
(916) 574-1800 Fax (916) 574-1810
California Relay Service from TDD Phone 1-800-735-2922
from Voice Phone 1-800-735-2929

August 15, 1995

File: W 25235
ND 671
SCH # 95083031

**NOTICE OF PUBLIC REVIEW
AND INTENT TO ADOPT A
PROPOSED NEGATIVE DECLARATION
(SECTION 15073 CCR & SECTION 21092 PRC)**

A Negative Declaration has been prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000 et seq., Title 14, California Code Regulations), and State Lands Commission Regulations (Section 2901 et seq., Title 2, California Code Regulations) for a project application currently being processed by the staff of the State Lands Commission.

This document is attached for your review. Comments should be addressed to the State Lands Commission office shown above with attention to the undersigned. All comments must be received by September 15, 1995.

The Negative Declaration will be considered for adoption at a meeting of the State Lands Commission no earlier than September 15, 1995. You will be notified of the date and location at least 10 days prior to the meeting.

Should you have any questions or need additional information, please call the undersigned at (916) 574-1893.

GOODYEAR K. WALKER
Division of Environmental
Planning and Management

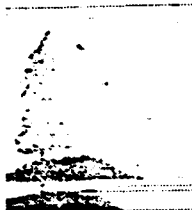
Attachment

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**CALIFORNIA STATE
LANDS COMMISSION**

GRAY DAVIS, *Lieutenant Governor*
KATHLEEN CONNELL, *Controller*
RUSSELL S. GOULD, *Director of Finance*



EXECUTIVE OFFICE
100 Howe Avenue, Suite 100-South
Sacramento, CA 95825-82

ROBERT C. HIGHT, *Executive Director*
(916) 574-1800 Fax (916) 574-18
California Relay Service from TDD Phone: 1-800-735-29
from Voice Phone: 1-800-735-29

PROPOSED NEGATIVE DECLARATION

File: W25235
ND 671

Project Title: Avon to Vine Hill Pipeline

Proponent: Chevron Pipe Line Company

Project Location: In Contra Costa County, between the Tosco Avon Refinery and Chevron's Vine Hill station.

Project Description: One mile of 10-inch pipeline will be added to an existing 1.3 miles of 8-inch pipeline, and repairs will be performed on two other pipelines within the same 2.3 miles of right-of-way.

Contact Person: Goodyear K. Walker Phone: (916) 574-1893

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

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

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

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

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ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST - PART II
Form 13.20 (7/82)File Ref.: W25235

I. BACKGROUND INFORMATION

A. Applicant:

Chevron Pipe Line Company5080 California AvenueBakersfield, CA 93309B. Checklist Date: 08 / 15 / 95C. Contact Person: Goodyear K. WalkerTelephone: (916) 574-1893D. Purpose: To repair and perform maintenance on three existing petroleum pipelinesE. Location: In Contra Costa County, from the Tosco Avon Refinery to the Chevron Vine Hill stationF. Description: One mile of 10-inch pipeline will be added to an existing 1.3 miles of 8-inch pipeline, and repairs will be performed on two other pipelines within the same 2.3 mile right-of-way.G. Persons Contacted: see attached Initial Study.

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II. ENVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers)

	Yes	Mayb
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?	—	—
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 river 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 earthquakes, landslides, mudslides, ground failure, or similar hazards?	—	—
B. Air. Will the proposal result in:		
1. Substantial air emissions or deterioration of ambient air quality?	—	—
2. The creation of objectional odors?	—	—
3. Alteration of air movement, moisture or temperature, or any change in climate either locally or regionally?	—	—
C. 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?	—	—
3. Alterations to the course or flow of flood waters?	—	—
4. Change in the amount of surface water in any water body?	—	—
5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?	—	—
6. Alteration of the direct on or rate of flow of ground waters?	—	—
7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?	—	—
8. Substantial reduction in the amount of water otherwise available for public water supplies?	—	—
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?	—	—
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?	—	—

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4. Reduction in acreage 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)? — —
 2. Reduction of the numbers of any unique, rare or endangered species of animals? — —
 3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals? — —
 4. Deterioration to existing fish or wildlife habitat? — —
- F. Noise.** Will the proposal result in:
1. Increase in existing noise levels? — —
 2. Exposure of people to severe noise levels? — —
- G. Light and Glare.** Will the proposal result in:
1. The production of new light or glare? — —
- H. Land Use.** Will the proposal result in:
1. A substantial alteration of the present or planned land use of an area? — —
- I. Natural Resources.** Will the proposal result in:
1. Increase in the rate of use of any natural resources? — —
 2. Substantial depletion of any nonrenewable resources? — —
- J. Risk of Upset.** Does the proposal result in:
1. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation) in the event of an accident or upset conditions? — —
 2. Possible interference with emergency response plan or an emergency evacuation plan? — —
- K. Population.** Will the proposal result in:
1. The alteration, distribution, density, or growth rate of the human population of the area? — —
- L. Housing.** Will the proposal result in:
1. Affecting existing housing, or create a demand for additional housing? — —
- M. Transportation/Circulation.** Will the proposal result in:
1. Generation of substantial additional vehicular movement? — —
 2. Affecting existing parking facilities, or create a demand for new parking? — —
 3. Substantial impact upon existing transportation systems? — —
 4. Alterations to present patterns of circulation or movement of people and/or goods? — —
 5. Alterations to waterborne, rail, or air traffic? — —
 6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians? — —

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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. Police protection?
3. Schools?
4. Parks and other recreational facilities?
5. Maintenance of public facilities, including roads?
6. Other governmental services?

O. 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?

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?
4. Sewer or septic tanks?
5. Storm water drainage?
6. Solid waste and disposal?

Q. Human Health. Will the proposal result in:

1. Creation of any health hazard or potential health hazard (excluding mental health)?
2. Exposure of people to potential health hazards?

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?

S. Recreation. Will the proposal result in:

1. An impact upon the quality or quantity of existing recreational opportunities?

T. Cultural Resources

1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological site?
2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?

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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. 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 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?

III. DISCUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)

See attached Initial Study

IV. PRELIMINARY DETERMINATION

On the basis of this initial evaluation:

☐ I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION will be prepared.

☐ I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

Date: 08 / 15 / 95


For the State Lands Commission

Form 13.20 (7/8)

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E N T R I X

CHEVRON PIPE LINE COMPANY
AVON TO VINEHILL PIPELINE PROJECT

Prepared for:

CALIFORNIA STATE LANDS COMMISSIC
Sacramento, CA

Prepared by:

ENTRIX, Inc.
Sacramento, CA

Project No. 632605

LLLL
LLLL
LLLL
LLLL

August 11, 1995

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Attachment 1: Aerial Photographs

Attachment 2: HDD Construction Methodology

Attachment 3: Agency Consultation Documentation

Attachment 4: Air Quality Assumptions/Calculation Data Sheets

Attachment 5: ACM Removal and Handling Procedures

Attachment 6: Land Owner Coordination Report

Chevron Pipe Line Company (Chevron) is proposing to conduct pipeline installation and repair work within an existing 2.3-mile long right-of-way (R/W) in Contra Costa County. The purpose of the proposed project is to maintain the integrity of Chevron's existing pipelines, and to facilitate the continued transport of hydrocarbon products to the marketplace utilizing the safest, most economical means available. Within the project area, the R/W crosses lands under the jurisdiction of the State of California at Pacheco Slough. As such, the State Lands Commission is the Lead Agency under the California Environmental Quality Act (CEQA).

The portion of the R/W affected by the proposed project is roughly bounded by Tosco Refining Company's Avon Refinery to the east and Chevron's Vine Hill station to the west. The pipeline installation would consist of approximately 1.0 mile of new 10-inch diameter pipeline connected to a 1.3-mile section of an existing, idle 8-inch diameter pipeline. The new section of pipe would be larger in diameter (10-inch versus 8-inch) than the existing pipe to increase the line's overall pumping efficiency and reduce the pipelines' interval operating pressure. The new system would be known as the Tosco-Richmond Products Pipeline (TRPP). The proposed repair/replacement work would affect an existing 10-inch diameter products pipeline known as the Bay Area Products Line (BAPL), and an existing 12-inch diameter crude oil pipeline known as the Kettleman-Los Medanos pipeline (KLM), all within the same 2.3-mile section of the existing R/W.

This Initial Study (IS) has been prepared to assist the State Lands Commission in meeting its obligations under CEQA to adequately consider the potential environmental effects of the project. It would be used by the Commission, the California Department of Fish and Game (CDFG), the Regional Water Quality Control Board (RWQCB), the US Army Corps of Engineers (Corps), and other regulatory agencies in carrying out their review and/or permitting responsibilities under CEQA.

The IS is organized according to the following sections:

- 1.0 Introduction
- 2.0 The Proposed Project
- 3.0 Oil Spill Contingency
- 4.0 Environmental Factors
- 5.0 Organizations and Persons Consulted

The proposed project is described in detail in the following.

THE PROPOSED PROJECT

2.1 PROJECT LOCATION

The proposed pipeline construction work would be located entirely in Contra Costa County (CCC), within an existing Chevron pipeline right-of-way. The existing pipeline R/W contains three active pipelines and an idle pipeline. The R/W is located south of and adjacent to the AT&SF railroad from Tosco's Avon Refinery to just west of Pacheco Slough where the R/W crosses to the north of the AT&SF tracks, then on to Chevron's Vine Hill station (Figure 1A).

2.2 PROJECT PURPOSE

The purpose of the proposed project is to maintain the integrity of Chevron's existing pipelines, and to facilitate the continued transport of hydrocarbon products to the marketplace utilizing the safest, most economical means available.

2.3 PROJECT DESCRIPTION

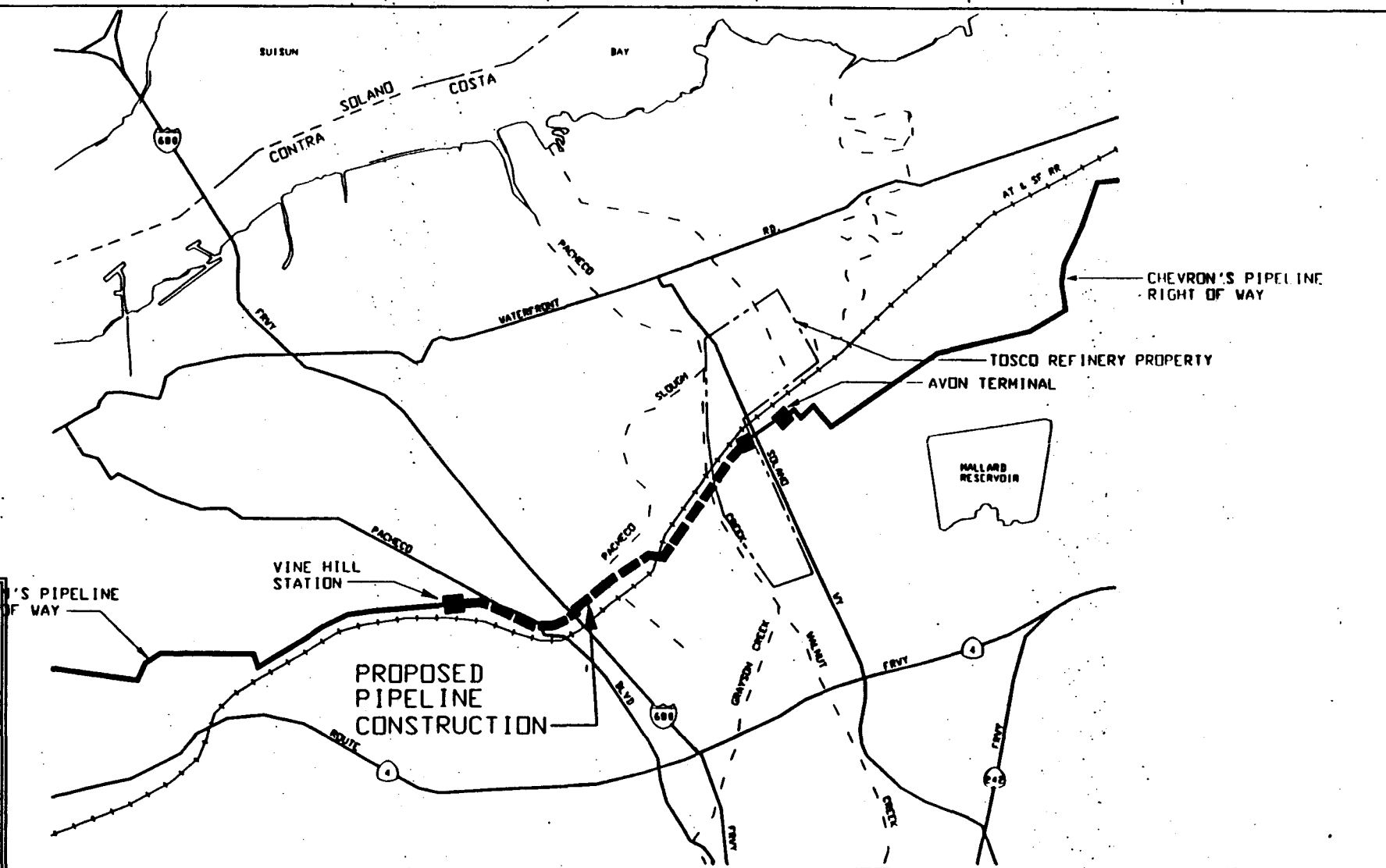
Chevron Pipe Line Company (Chevron) proposes to conduct pipeline installation and repair work within an existing 2.3-mile long pipeline Right-of-Way (R/W) from the Tosco Refining Company's Avon Refinery to Chevron's Vine Hill station. The work is comprised of three separate projects which are proposed to be combined into one construction effort. The proposed pipeline installation would consist of approximately 1.0 mile of 10-inch diameter pipeline that would be connected to 1.3 mile of an existing 8-inch diameter pipeline. The system would be known as the Tosco-Richmond Products Pipeline ("TRPP"). The proposed repair work would affect an existing 10-inch diameter operating products pipeline (the "BAPL"), and an existing 12-inch diameter operating crude oil pipeline (the "KLM"), all within the same 2.3 mile section of R/W. Chevron's

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A | B | C | D | E | F | G

N



CHEVRON'S PIPELINE
RIGHT OF WAY

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SHOISIA3

DR PLP CH.	
DR APP.	
ENCR.	
OPR'S DEPT	APPROVED



Chevron Pipe Line Co.
West Coast Corridor

AREA MAP OF PROPOSED PIPELINE CONSTRUCTION
TOSCO TO VINE HILL STATION PIPELINE
MARTINEZ CALIFORNIA
LOS MEDANOS, WEST COAST CORRIDOR

13001.DWG P.L.P. 8/8/85 (C&P-15-024)

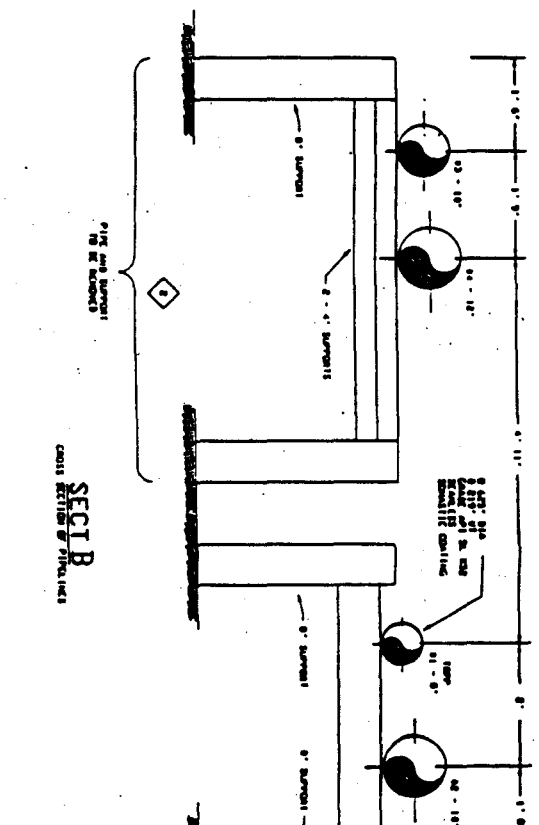
existing R/W varies between 20 and 35 feet in width. The proposed installation and repair work would require a temporary construction corridor of 40 to 50 feet in width along Chevron's permanent R/W. The construction efforts for these pipelines is estimated to take 8 to 10 weeks to complete and employ a work crew of 20 to 30 workers.

2.3.1 PROPOSED PIPELINE

Pipeline Installation

The TRPP pipeline would use an existing 8-inch diameter pipe supplemented by new pipe installation, as follows (see aerial photos, CD-0226, contained in Attachment 1). The majority of the eastern 1.3 miles of the pipeline, from the Tosco-Avon Refinery to just east of Highway 680, would consist of an existing, currently idle 8-inch diameter pipe. This includes the existing crossing over Pacheco Slough on trestles (see Figure 1B, CD-0242). Approximately 300 feet east of Walnut Creek, new pipe would be installed to replace an approximately 500-foot long gap in the existing pipe. Also, a section approximately 100 feet long would be installed on the west side of Walnut Creek where a piece of the idle 8-inch pipeline has been previously removed. New pipe installation would also occur along the western 1.0 mile of the pipeline, from approximately 300 feet east of Highway 680 to the Vine Hill delivery station.

Chevron has successfully hydrotested all sections of the existing 8-inch pipeline except for the crossing of Walnut Creek due to the missing piece of pipe. Chevron has concurrence from the California Department of Fish and Game to conduct work at the Walnut Creek crossing to replace the missing piece. In the unlikely event this existing crossing cannot be satisfactorily tested and placed into service, a new crossing would be required. As an alternative to replacing the existing crossing by open trenching across Walnut Creek, Chevron would propose to utilize the directional drilling method to install the 700-foot long new crossing. This methodology is described in Section 2.3.3.



243.

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SECTION A

CONSTITUTION OF THE UNITED STATES

**Deputy Vice Line Co
11/11/1919**

[illegible]

PROJECTED SLOUGH CROSSING DETAIL	CD-0242	DATE
FORCED TO VINE MILL PROJECT PIERLINE (TROP)		
PROJECTED SLOUGH		
LOS ANGELES, WEST COAST CORRIDOR SYSTEM		
NO. 10000000		
10000000		

2

The pipeline would be designed, constructed, owned, and operated by Chevron in compliance with the California Pipeline Safety Act (CPSA) under the jurisdiction of the State Fire Marshal. The pipeline would be installed using the most current pipeline construction methods. Specialized construction techniques would be employed where necessary to minimize or avoid potential impacts to areas of identified sensitivity. The construction methods are described in detail in Section 2.3.3.

Pipeline Operation

The TRPP pipeline is designed to transport hydrocarbon product from Tosco's Avon Refinery to Chevron's existing #4, 12-inch diameter idle pipeline that terminates at the Vine Hill location. The pipeline would be capable of transporting up to 5,000 barrels per hour (BPH). The operation of the pipeline would be monitored remotely in Houston, Texas, by Chevron's Supervisory Control and Data Acquisition (SCADA) computer system. Pipeline pressure, pump status, product flowrate, and valve status are typical points that are observed by Chevron personnel (Controllers) on a 24 hour a day basis. The SCADA system also provides leak detection by comparing flowrate into the pipeline versus flowrate out and gives the Chevron Controllers the capability of shutting down the pipeline in case of an indicated emergency. On site operations and maintenance activities for all of the pipelines would continue to be provided by Chevron's crews which are based at Chevron's Los Medanos Station in Pittsburg, California.

2.3.2 PROPOSED REPAIR WORK

The proposed maintenance repair/replacement work would be undertaken on two existing Chevron pipelines within the R/W. The 10-inch BAPL products pipeline and the 12-inch KLM crude pipeline have been evaluated in accordance with Chevron's regular and ongoing pipeline inspection program and repair work has been identified within the R/W. The proposed repairs and replacements are needed to ensure the ongoing integrity of the pipelines. The repair locations on these two pipelines are illustrated on the aerial photos (attachment 1) and are described in the following. The KLM and BAPL replacement crossings of Pacheco Slough would be installed using the open trench method described in Section 5.1. After the replacement lines are constructed and are operational, the existing pipe crossings above Pacheco Slough and the trestles

would be removed.

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BAPL

The BAPL pipeline is owned and operated by Chevron in compliance with the California Pipeline Safety Act (CPSA) under the jurisdiction of the State Fire Marshal. The pipeline transports refined petroleum products from Chevron's Richmond Refinery to Chevron's marketing terminals at Avon, Banta, Sacramento, and San Jose. The proposed repair work would not increase the maximum design flowrate capacity of the BAPL system. There are eight sites, all within the pipeline R/W, proposed for construction work which are shown on the attached aerial photo sheets, CD-0226, and identified as "BAPL" work. The sites consist of eight replacement sections totaling about 6,000 feet of pipeline. The total area disturbed by construction on the BAPL would be about 6,300 feet along the R/W.

KLM

The KLM pipeline is owned and operated by Chevron in compliance with the California Pipeline Safety Act (CPSA) under the jurisdiction of the State Fire Marshal. The KLM pipeline transports crude oil from the oil fields in Kern County to Tosco's refinery at Avon and Shell's refinery at Martinez. The proposed repair work would not increase the maximum design flowrate capacity of the KLM system. There are nine sites proposed for construction work which are shown on the attached aerial photo sheets, CD-0226, and identified as "KLM" work. The sites consist of four replacement sections totaling about 2,850 feet of pipeline and five sleeve repair locations totaling about 25 feet along the pipeline. The total area disturbed by construction on the KLM would be about 3,200 feet along the R/W.

The proposed replacement/repair work would be of a similar nature to the pipeline installation portion of the proposed project. The work would be done using the most current, commonly used pipeline construction methods. Specialized construction techniques would be employed where necessary to minimize or avoid potential impacts to areas of identified sensitivity. All replacement and repair work would also comply with CPSA. Both the BAPL and the KLM are monitored by Chevron's SCADA system as described in Section 3.2.

2.3.3 PIPELINE CONSTRUCTION METHODS

Pipeline Installation/Replacements

There are eight typical steps involved in the construction of a pipeline, as discussed below. Figures 2A and 2B illustrate these typical steps in the rural and urban environments.

R/W clearing. This entails preparing a clear and level work area for the operations to follow. This work is done either by a motor grader in fairly flat areas or by a bulldozer where the terrain perpendicular to the pipeline is sloping. In the latter case a level "bench" is excavated to provide a level work area along the pipeline R/W. In areas designated as wetlands, the top six to 12 inches of topsoil would be removed first and stock piled separately. One or two pieces of equipment would be needed for this project.

Trenching. In the existing R/W corridor the trenching would be done by a backhoe. The trench is excavated approximately six feet deep and about two feet wide. A trapezoidal cross-section, with side slopes of 1.5 to 1.0 may be required in specific zones of seismic hazard. The excavated material, or "spoils" is placed on the side of the trench opposite from the work area. In areas where existing pipelines are above ground, the excavated material cannot be placed on the opposite side. The material is placed on the "work" side of the trench and flattened to make a workspace. The excavated material would be segregated from the stockpile of topsoil. One or two backhoes or larger track-hoes would be working at different points along the route to complete the trenching efficiently.

Stringing. This step involves unloading pipe joints from a flatbed trailer and placing them end to end along the work area. The flatbed truck is usually equipped with a lifting boom; if not, a small crane will be used to hoist the pipe joints from the trailer. The pipe joints are lifted from the ground using a "side-boom" tractor, which is simply a bulldozer with a lifting boom on the side, and placed along the work area.

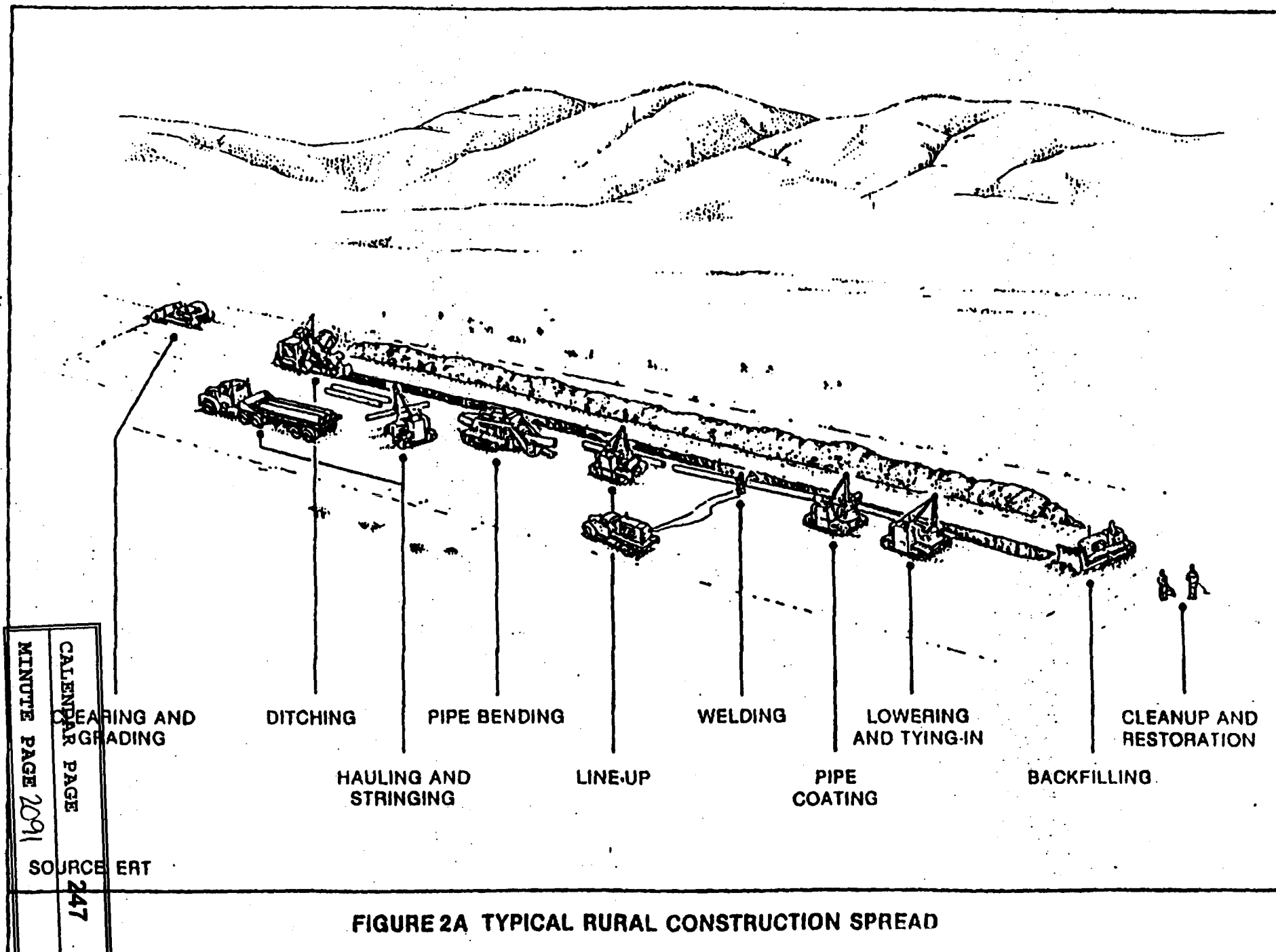
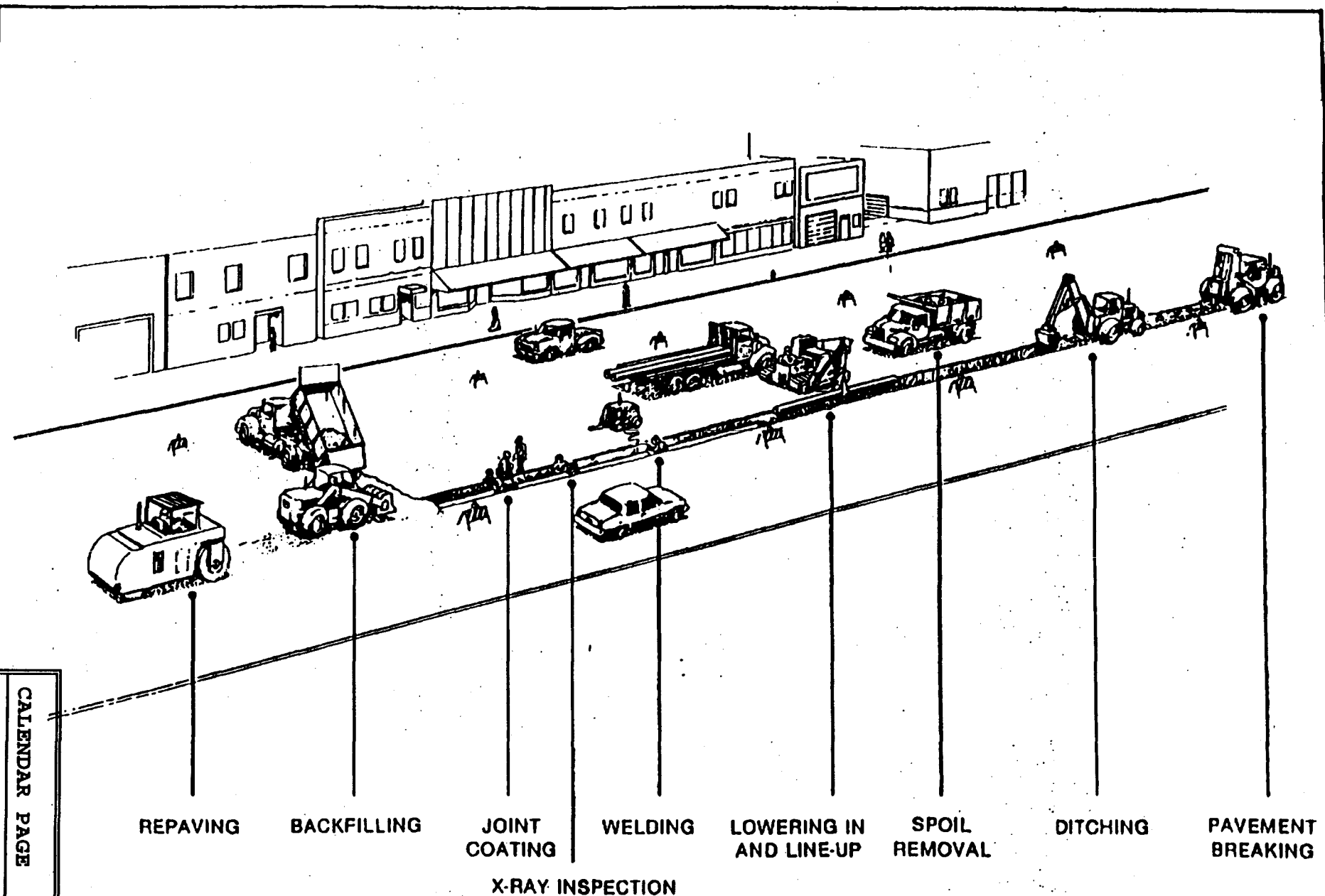


FIGURE 2A TYPICAL RURAL CONSTRUCTION SPREAD



SOURCE: ERT

FIGURE 2B TYPICAL URBAN CONSTRUCTION SPREAD

Welding. The side-boom lifts the pipe and positions the end of the pipe so that it can be clamped and closely fitted to the end of the adjacent joint of pipe. The welding crew makes the final alignment and welds the pipe ends together. Once the two joints are secured, the pipe is supported by wooden skids, the side-boom releases the joint and the process is repeated. This "mainline" welding crew would probably consist of one side-boom, a welding truck and a supply truck. Usually it requires three complete "passes" around the circumference of the pipe to complete each weld. The first pass is completed by the mainline crew before they move ahead to the next joint. The other two welding passes are performed by the "final" welding crew which moves along behind the mainline welding crew. The final welding crew would probably consist of a welding truck with two or three workers, a supply truck, and a foreman's truck.

Radiography and field coating. The welds are required to be inspected and graded according to API guidelines. A radiography, or "X-ray," crew of two workers would follow well behind the welding operations. The X-ray crew works from a single pickup truck to perform the weld inspections. After the weld has been approved by the X-ray crew, coating must be applied to the welded joint. On each end of the pipe joint about four inches of pipe is left uncoated at the factory to allow for the field welding. This gap in the protective coating is covered using field-applied coating materials. This is performed by two or three laborers with a pickup truck and possibly a larger supply truck.

Lowering. Once the protective coating is inspected the pipe is ready to be lowered into the open trench. Two or three side-booms line up along the pipe string. Each of the side-booms lifts a section of the pipe string and slowly moves it over to the trench. The pipe is held in a cradle with rollers suspended from the side-boom. As the side-booms move together along the trench, the pipe is gradually lowered into place at the bottom of the trench.

Backfilling. Usually the backhoe or bulldozer pushes the spoil material into the trench over the pipeline. The backfill material is then compacted as required and the original contour of the work area is restored. The native excavation material is used for backfill if it does not contain hard material, such as large rocks, that could damage the pipelines's protective coating. If the native material is not acceptable then clean material or sand must be hauled in. Backfill of

"ball-bearing" sand may be
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required in some specific areas of seismic risk. Compaction may be done with small manually-operated, gasoline-powered tampers or "wheel rolled" with a backhoe. The topsoil would then be replaced over the disturbed area and regraded to match the original contours.

Testing and Cleanup. Temporary caps are welded to each end of the new pipeline and the pipeline is filled with water. Additional water is pumped into the pipeline, raising the pressure to the specified test pressure which is usually 1.5 to 3 times the normal operating pressure. Any erosion control mitigation structures are constructed and re-seeding is done. All trash and construction remnants are collected and properly disposed of.

Pipeline tie-ins: As a final step the operating pipeline must be shutdown and cut so the new pipe can be connected, or "tied-in." Tie-ins require a great concentration of work effort and equipment to minimize the shutdown time of the pipeline. The existing pipe is cut at the beginning and end of the replacement segment. The new pipe section is fitted and welded to the open end to make the pipeline once again complete. The old pipe is typically cut into pieces; removed from the ground and disposed of properly. Caps are welded to the ends of any pipe left in the ground before it is properly abandoned. A side-boom, a backhoe, two welding trucks, a vacuum truck, a supply truck and two or three pickup trucks.

Repairs to Existing Pipelines/Sleeves

The procedure for repairs is slightly different, but the same type of equipment is used, as follows.

Excavation. The pipeline is exposed using a backhoe to dig a trench over the pipeline. Since many of the repair operations require personnel to be in the trench, OSHA standards for trench shoring or sloping are followed. This procedure would require a delivery truck to bring the shoring materials to the jobsite.

Repairs. Some pipe repairs are made by welding full encirclement sleeves to the existing pipeline. The procedure requires a Welder and three to five laborers to fit the sleeve material to the pipeline and weld it into place. The welding truck, a backhoe, a supply truck and two or three pickup trucks would be at a repair location.

Completion. After the welding is done, protective coating is applied to the sleeved area. Backfilling and cleanup would then be done as described above.

It should be noted that if the repair area is longer than about ten feet it is probably too long to be sleeved and a new piece of pipe would need to be installed. In this case the pipe replacement procedure would be followed.

Horizontal Directional Drilling Methodology

An alternative to the proposed project would include horizontal directional drilling (HDD) underneath the Walnut Creek flood control channel. A detailed description of the HDD construction methodology, including figures, is included in Attachment 2.

OIL SPILL CONTINGENCY

Chevron has prepared an Oil Spill Contingency Plan in the event that a construction-related mishap results in the puncture of an active pipeline. Chevron has prepared facility Oil Spill and Emergency Response Manuals, containing detailed procedures, in compliance with the federal Oil Pollution Act of 1990 (OPA). Chevron has subsequently revised these to comply with the California Oil Spill Prevention and Response Act (SB 2040).

The lines adjacent to the construction site contain both crude and refined products. Every reasonable precaution would be taken to protect the integrity of the pipeline, but should a leak occur, the following procedures would be implemented.

OIL SPILL CONTINGENCY PLAN:

- NOTIFICATION
- RESPONSE STRATEGY
- ORGANIZATION OF IMMEDIATE RESPONSE TEAM
- AVAILABLE OIL RESPONSE EQUIPMENT (RESOURCES)

NOTIFICATION

Notification is essential to ensure rapid shut down of operating pipelines, initiate emergency response and to notify affected parties and governmental agencies. As such, on site personnel will be radio equipped. In the event of a spill, notification should occur as follows:

- Immediately notify all site personnel to shut down equipment and evacuate the immediate spill scene until the source and size of the spill can be ascertained.
- Immediately contact the control center to shut down pipeline flow in the right of way.
- Notify the Los Medanos Natural Team to block in the line to minimize drain down.
- Begin notification of spill response personnel.

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- Contact Governmental agencies:
USCG National Response Center (800) 424-8802
California Office of Emergency Services (800) 852-7550
- Notify Company management

RESPONSE STRATEGY

In the event of a minor spill, (< 1 barrel, no impact to water or wildlife) the following steps should be taken:

- Notify the Control Center to shut down the line using on site radio
- Notify the local operations personnel to block in damaged area
- Make proper notifications
- Activate local Operations Team Spill Response Personnel

In the event of a significant spill (> 1 barrel, impacts wildlife or water) the following steps should be taken:

- Notify the Control Center to shut down the line
- Notify the local operations personnel to block in damaged area
- Make proper notifications
- Activate local Operations Team Spill Response Personnel
- Activate spill response contractors and equipment
- Evaluate situation to determine if additional resources are necessary

Equipment Availability

During the construction phase of this project that could impact other active lines, the Los Medanos Natural Team Spill Response Equipment Trailer will be stationed at the Avon Terminal, which is located within 10 minutes drive of the project. The Spill Response Equipment Trailer contains the following:

- Sorbent Pads
- Sorbent Booms
- Shovels, rakes, etc.
- Portable lighting
- Personal Protective Equipment
- Plastic Bags
- Plastic Sheeting

- Rags
- Storage Drums

In the event additional equipment is necessary, Chevron Pipeline Company has a memorandum of understanding with the Chevron Richmond Refinery which allows for 24 hour access to any of their equipment in the event of an emergency.

The potential for a spill to water is to be avoided by constructing in the right-of-way during a period when Pacheco Slough is dry. The early detection of any construction-related leaks will be enhanced by the presence of field inspectors equipped with radios for contacting Chevron's pipeline Control Center for immediate shut-down of pipelines and dispatch of response personnel. In the event of an accident, the construction-related equipment will be available on site to dam or otherwise restrict the movement of accidentally leaked materials.

ENVIRONMENTAL FACTORS

The following discussion of environmental factors is organized in accordance with the Environmental Checklist Form contained in the current CEQA Guidelines. The potential for the project to cause adverse impacts to the environment is discussed for each environmental factor. In addition, the measures which Chevron includes as part of the proposed project in order to reduce any potentially significant impacts to less-than-significant are described. The discussion of environmental factors begins with Land Use and Planning, in the following.

4.1 LAND USE AND PLANNING

Would the proposal: a) Conflict with general plan designation or zoning; b) Conflict with applicable environmental plans or policies adopted by agencies with jurisdiction over the project; c) Be incompatible with existing land use in the vicinity; d) Affect agricultural resources or operations (e.g. impacts to soils or farmlands, or impacts from incompatible land uses); e) Disrupt or divide the physical arrangement of an established community (including a low-income or minority community)?

The project area is located in the boundaries of the *Contra Costa County General Plan 1990-2005*. This Plan was adopted by the County Board of Supervisors in January 1991 (revised March 11, 1991). The land use designation and zoning of the upland lands adjacent to the State Lands property is Heavy Industrial. Land uses adjacent to other portions of the project R/W include Light Industrial, Commercial, Residential, and General Agriculture.

The project consists of pipeline installation and repairs within an existing R/W. As such, continued use of these lands would not conflict with the applicable plans, nor would it affect agricultural resources or the established community in the project area. The proposed project is compatible with the existing land use in the area, and would not require a variance from the existing zoning or amendment to the applicable plans.

It should be noted that Chevron has consulted with all adjacent landowners and tenants along the project R/W regarding the proposed project. Chevron is currently working cooperatively with these parties to address the specific issues raised during the consultation process. A complete summary of the consultation process and resolution of concerns is provided in Section 5.0.

4.2 POPULATION AND HOUSING

Would the proposal: a) Cumulatively exceed official regional or local population projections; b) Induce substantial growth in an area either directly or indirectly (e.g. through projects in an undeveloped area or extension of major infrastructure); c) Displace existing housing, especially affordable housing?

The proposed project would not induce any short-term or long-term growth in the area, nor would it displace existing housing. The project involves installation and repair work within an existing pipeline R/W which does not cross residential areas. In addition, the construction and operation of the pipelines would be carried out utilizing the local labor force.

4.3 GEOLOGIC PROBLEMS

Would the proposal result in or expose people to potential impacts involving: a) Fault rupture; b) Seismic ground shaking; c) Seismic ground failure, including liquefaction; d) Seiche, tsunami, or volcanic hazard; e) Landslides or mudflows; f) Erosion, changes in topography or unstable soil conditions from excavation, grading, or fill; g) Subsidence of the land; h) Expansive soils; i) Unique geologic or physical features?

The pipeline traverses relatively flat to gently sloping terrain. Elevations along the pipeline route range from a high of 20 feet above mean sea level (MSL) near Avon and Vine Hill to a low of four feet above MSL near Pacheco Creek. The land surface near Vine Hill slopes gently eastward, toward the topographic low at Pacheco Creek. Similarly, the land surface near Avon slopes westward, toward Pacheco Creek.

The Soil Conservation Service (SCS) has mapped eight distinct soil types along the pipeline alignment, as follows: Capay clay; Omni silty clay; ~~Dibble silty clay loam; Ato~~

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clay; Millsholm loam; Tierra loam; Clear Lake clay; and Positas loam. Capay clay occurs on moderately sloping to gently sloping benches near the Avon terminal and Omni silty clay occurs along the low edges of flood plains near Pacheco Creek, Maltby, and Highway 680. Alo clay, Dibble silty clay loam, Millsholm loam, Tierra loam and Positas loam occur on the smooth hills, uplands, and terraces between Maltby and Vine Hill. Clear Lake clay occurs near Vine Hill where the water table is below 60 inches. These soil types are described in the SCS Soil Survey of Contra Costa County (1977) as having the following properties related to soil stability. First, runoff ranges from slow to medium in all of the soil types except Omni and Clear Lake where runoff is very slow. Omni soil is subject to occasional flooding due to its very slow runoff and Clear Lake clay is subject to flooding every seven to ten years, unless surface drainage is provided. Second, the hazard of erosion ranges from slight to moderate where soils are bare or exposed, except in Omni and Clear Lake soils, which are not subject to erosion. Finally, the majority of soils along the pipeline route have moderate to high shrink-swell potential.

The San Francisco Bay region is traversed by three major active faults. From west to east these are the San Andreas Fault, the Hayward Fault and the Calaveras Fault. In addition, at least seven minor active or potentially active faults have been identified in the region. These include: the Healdsburg-Rodgers Creek fault zone; the Maacama Fault; the Green Valley Fault; the Concord Fault; the Greenville Fault; and the Clayton-Marsh Creek Fault. Of these, the San Andreas, Hayward, and Calaveras faults are considered to have the highest potential for large earthquakes. These faults are capable of producing maximum credible earthquakes of magnitude of 8.5, 7.5, and 7.0, respectively. In addition, the Concord Fault crosses the existing pipeline R/W and poses a potential threat in the event of a seismic event. The Concord Fault is considered to be well defined and has shown displacement in the last 200 years. Consequently, the State Geologist has delineated the fault and all areas within a quarter mile of the fault as a Special Study Zone in accordance with the Alquist-Priolo Earthquake Fault Zoning Act. This designation prohibits the location of developments and structures for human occupancy across the trace of the fault.

The active and potentially active faults in the Bay area are capable of generating earthquakes with sufficient magnitude to cause strong ground motion in the project area and damage to the pipeline. Substantial damage to the pipeline as a result of ground rupture or strong ground shaking would be a potentially significant adverse impact. To

reduce these potential impacts to a less-than-significant level, the pipeline would be designed and constructed in a manner consistent with the requirements of the County of Contra Costa General Plan, Seismic Safety Element. In addition, Chevron has prepared an Emergency Response Manual that would be implemented in the event of an earthquake or rupture of the pipeline. The Response Manual was prepared in compliance with the federal Oil Pollution Act of 1990 (OPA), and then revised to comply with the California Oil Spill Prevention and Response Act (SB 2040).

The minor excavation associated with the proposed project and the types of soils present are such that the project would not result in or expose people to potential impacts involving subsidence, unstable soil conditions, expansive soils, or other hazards such as landslides and mudflows. Also, no unique geologic or physical features occur within the proposed project area. Although the hazard of erosion is only slight to moderate in the project area, increased erosion could potentially occur during the construction phase of the project. As such, the following best management practices incorporated into the project would minimize any such effects. The soils disturbed by construction compaction would be backfilled as soon as practicable following the installation of or repairs to the pipe. The compaction of the backfill would approximately replicate the original drainage conditions of the disturbed soils. Dust control measures would also be implemented during the construction period to alleviate adverse downwind effects.

In addition, the US Army Corps of Engineers has authorized construction activities for the proposed project under a Nationwide Permit No. 12, Utility Corridor, pursuant to Section 404 of the Clean Water Act. Under the nationwide permit, Chevron must conduct all construction activities in compliance with the General Conditions specified by the Corps. These conditions include the use and maintenance of appropriate erosion and siltation controls during construction; the permanent stabilization of all exposed soil and other fills at the earliest practicable date; and, in wetlands, the placement of heavy equipment on mats, or other measures to minimize soil disturbance.

4.4 WATER

Would the proposal result in: a) Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff; b) Exposure of people or property to water related hazards such as flooding; c) Discharge into surface waters or other alteration of surface water quality (e.g. temperature, dissolved oxygen, or turbidity)? d) Changes in the amount of surface water in any water body; e) Changes in currents, or the course or direction of water movements; f) Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations or through substantial loss of groundwater recharge capability; g) Altered direction or rate of flow of groundwater; h) Impacts to groundwater quality; i) Substantial reduction in the amount of groundwater otherwise available for public water supplies?

The two waterways in the project area are Walnut Creek and Pacheco Slough. Walnut Creek is a dredged flood control channel owned and maintained by the Contra Costa Flood Control District. Pacheco Slough is currently a highly degraded seasonal waterway. No water was present in Pacheco Slough at the time of this report (summer 1995).

The proposed project would not result in changes in absorption rates, drainage patterns or the amount or rate of surface runoff. The project involves work within an existing pipeline R/W. Upon completion of construction, the R/W would be restored to pre-existing conditions. The proposed project would not involve flooding or changes in surface water currents.

The proposed project would not result in alteration of the surface water quality in the project area. The Bay Area RWQCB has granted a waiver of Section 401 Water Quality Certification for this project (by letter dated July 24, 1995; see Attachment 3). In addition, the US Army Corps of Engineers has authorized construction activities for the proposed project under a Nationwide Permit No. 12, Utility Corridor, pursuant to Section 404 of the Clean Water Act. In order to further protect the waters of the United States, Chevron must conduct all construction activities in compliance with the General Conditions specified by the Corps. These conditions are intended to minimize any potential effects on water quality associated with earthmoving or other construction activities. The requirements include the use and maintenance of appropriate erosion and siltation controls during construction; the permanent stabilization of all exposed soil and

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other fills at the earliest practicable date; and, in wetlands, the placement of heavy equipment on mats, or other measures to minimize soil disturbance.

It should be noted that Chevron has consulted with the CDFG in order to obtain a Streambed Alteration Agreement for the proposed project. Chevron would implement the project in strict accordance with the specific provisions of the Agreement in order to further protect the aquatic environment in the vicinity of Walnut Creek and Pacheco Slough. The provisions of the Agreement include a requirement to conduct all field work in the Pacheco Slough waterway prior to October 15th. Construction may continue past October 15th at Walnut Creek, but Chevron would be required to consult with CDFG on a daily basis after this date.

Chevron's Oil Spill and Emergency Response Manuals were prepared in recognition of the potential impairment of surface water and groundwater quality in the event of an accidental release. The manuals were prepared in compliance with the federal Oil Pollution Act of 1990, and were then revised to comply with the California Oil Spill Prevention and Response Act (SB 2040). The manuals include specific procedures for the following: 1) notification; 2) response strategy; 3) organization of emergency response team; and 4) available oil spill response equipment. Adherence to the provisions of these manuals will minimize the potential adverse water quality effects of an accidental release.

The use of horizontal directional drilling beneath Walnut Creek could result in a release of drilling mud or bentonite if not properly managed. Most subsurface releases will be self-sealing and will not adversely impact groundwater resources. If muds from the subsurface move upward and enter Walnut Creek, there could be excessive turbidity. The HDD methodology described in Section 2.3 will be conducted so as to minimize the possible discharge of drilling muds to surface water. In particular, continuous reading of azimuth and inclination, as well as survey stations taken every 15 feet, will ensure that the pilot hole and reamed hole are kept along the design pathway.

4.5 AIR QUALITY

Would the proposal result in: a) substantial air emissions or deterioration of ambient air quality; b) the creation of objectionable odors; c) alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?

The relatively small and localized effects of the proposed pipeline installation and repair are such that no significant changes in air movement, moisture, temperature, or climate are expected either locally or regionally. The project construction could, however, potentially create short-term adverse but not significant air emissions.

A brief discussion of the relevant air quality-related regulatory requirements and the results of the modeling as it relates to these regulatory requirements are presented in the following.

Contra Costa County is part of the Bay Area Air Basin (BAAB) and, therefore, all projects with potential air emissions located within this county, including the proposed project, need to comply with the regulatory requirements of the Bay Area Air Quality Management District (BAAQMD). BAAQMD has set forth guidelines for assessing impacts of project and plans. According to the BAAQMD's guidelines, any project with potential air pollutant emissions above the threshold levels established by the BAAQMD would have a potentially significant air quality impact and as such would need to implement the appropriate mitigation measures to reduce the impacts below the threshold levels to the extent feasible.

The significance threshold for Carbon Monoxide (CO) is set at 550 pounds per day. Each of the other criteria pollutants (Oxides of Nitrogen (NO_x), Reactive Organic Compounds (ROC), Sulfur Oxides (SO_x), and Particulate Matter (PM)) has a significance threshold of 150 pounds per day. Any project resulting in air emissions exceeding these thresholds would have a potentially significant air quality impact.

In order to characterize and quantify the air emissions associated with the proposed construction activities, methodologies prescribed by the BAAQMD and the United States Environmental Protection Agency (EPA) were used. Attachment 4 of this document presents the assumptions as well as estimation techniques used to quantify air emissions

associated with both disturbance of soil as well as operation of the construction equipment. The list of construction-related equipment is included on the following page.

The modeling results, as detailed in Attachment 4, indicate that the operation of the construction equipment would not result in any exceedence of the BAAQMD's significance thresholds. However, daily watering of the active construction site would be required to avoid potentially significant particulate matter emissions associated with soil disturbance.

In conclusion, with the proposed watering to control particulates, the proposed project construction would not exceed any BAAQMD's significance thresholds and as such would not result in any adverse significant impact.

4.6 TRANSPORTATION/CIRCULATION

Would the proposal result in: a) Increased vehicle trips or traffic congestion; b) Hazards to safety from design features (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment); c) Inadequate emergency access or access to nearby uses; d) Insufficient parking capacity on-site or off-site; e) Hazards or barriers for pedestrians or bicyclists; f) Conflicts with adopted policies supporting alternative transportation (e.g. bus turnouts, bicycle racks); g) Rail, waterborne or air traffic impacts?

Transportation corridors in the vicinity of the project area include Solano Way, the Southern Pacific Railroad, the AT&SF Railroad, Highway 680, and Pacheco Boulevard. Solano Way and Pacheco Boulevard are maintained by the County of Contra Costa, whereas Highway 680 is maintained by the California Department of Transportation (CalTrans). Pacheco Boulevard is a regional arterial, providing important intercounty and/or interregional traffic connections. Solano Way and other roads in the immediate area consist primarily of low-speed, low-capacity local roads providing circulation within the neighborhood and nearby areas. The Southern Pacific and AT&SF railroad lines serve as freight transportation routes through the project area.

LIST OF EQUIPMENT

PROPOSED AVON TO VINEHILL PIPELINE PROJECT

2 each	561 Side Booms
1 each	D7 Dozer/Winch
1 each	710 RT Backhoe
2 each	580 RT Backhoe
1 each	Cat 225 Excavator
1 each	K/W Tractor with hydrocrane and float trailer
1 each	Semi-truck with lowbed
2 each	2-Ton Winch Trucks
2 each	1-Ton Trucks
6 each	3/4 Ton Trucks
2 each	175 Air Compressor
1 each	17 Gal Pressure Pump

If necessary, the following equipment would be utilized for directional drilling:

1 each	Bore King Model DBS-100 Directional Drilling Machine
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The maintenance and operation of the pipelines following project completion would not adversely affect transportation or circulation. Construction-related effects to transportation and circulation would be limited to short-term increases in traffic congestion, as described further in the following. The list of equipment utilized during construction is provided in Section 4.5, Air Quality.

The proposed project includes limited construction activities within the rights-of-way of the SP and AT&SF Railroads near Solano Way and Pacheco Slough, respectively. Although construction activities would not affect normal operations of the railroads, Chevron would provide adequate notification to these companies prior to construction.

Chevron's existing R/W crosses underneath Highway 680 near Pacheco. The proposed project would include the installation of new pipe within this crossing. Normal operations of the Highway would not be affected by this work. However, Chevron has notified CalTrans of the planned work in accordance with the existing consent to Common Use Agreement between Chevron and CalTrans.

The proposed project would affect traffic in the vicinity of Pacheco Boulevard and Solano Way during the construction phase. The disruptive effects of the pipeline construction activities in the vicinity of these roads would include: 1) excavation and construction adjacent to the road; 2) construction equipment and personnel use of the road shoulder; 3) excavation and construction across Pacheco Boulevard; 4) temporary blocking of one traffic lane during the two-day construction period (Pacheco Boulevard); and 5) increased traffic related to the pipeline construction activities. Chevron is currently working with the Contra Costa County Planning Department to determine the County's specific requirements to ensure public safety during the construction phase of the project. The detailed traffic plan would be finalized by Chevron's construction contractor and submitted to the County prior to construction.

4.7 BIOLOGICAL RESOURCES

Would the proposal result in impacts to: a) Endangered, threatened or rare species or their habitats (including but not limited to plants, fish, insects, animals, and birds); b) Locally designated species (e.g. heritage trees); c) Locally designated natural communities (e.g. oak forest, coastal habitat, etc.); d) Wetland habitat (e.g. marsh, riparian, and vernal pool); e) Wildlife dispersal or migration corridors?

General biological surveys were conducted for the project corridor during December 1994, and February and April 1995. In general, the existing R/W was found to be highly disturbed, containing vegetation and wildlife that reflect this condition. Typical freshwater marsh vegetation occurs along Walnut Creek, including cattails, California bulrush and broad-leaved peppergrass. At Pacheco Slough, a mixture of both upland and wetland vegetation occurs including mustard, poison hemlock, wild radish and thistle interspersed with saltgrass, pickleweed and spike rush. A 200-meter long wetland area occurs just east of Highway 680 which supports predominantly cattails. West of Highway 680, little vegetation occurs other than scattered ruderal species and urban landscape species. Habitat values are generally low; most of this habitat is used only by animal species adapted to disturbed conditions and urban landscapes. Animal species observed in the vicinity of the R/W include Brewer's blackbird, red-winged blackbird, American kestrel, white-crowned sparrow, house finch, pied-billed grebe, red-tailed hawk, western meadow lark, black phoebe, and goldfinch.

A California Natural Diversity Database (CNDDB) records search conducted on April 5, 1995, indicated that the California clapper rail, California black rail, and Salt marsh harvest mouse could occur in the vicinity of the project. Biological surveys conducted in December, February, and April of 1995 indicated that no habitat for the California clapper rail would be affected by the proposed project. Detailed surveys were conducted for the California black rail during February and April to assess marginal habitat found in the vicinity of Walnut Creek and Pacheco Slough. The surveys were conducted in consultation with the California Department of Fish and Game (CDFG). No black rails were found during these surveys. A comprehensive trapping survey was conducted for the Salt marsh harvest mouse in July 1995. The survey was conducted in consultation with CDFG and the US Fish and Wildlife Service (USFWS). No Salt marsh harvest mice were found during the survey.

Results of the surveys conducted in consultation with the agencies indicate that the proposed project would not result in impacts to threatened or endangered species. The proposed project would not result in impacts to locally-designated species, natural communities, or wildlife dispersion or migration corridors.

The proposed project would affect several areas of wetlands during the eight to ten week construction period. Potential impacts to the wetlands would be reduced to less than significant as described in the following. Chevron consulted with the San Francisco District of the US Army Corps of Engineers regarding the proposed project. The Corps authorized construction activities for the proposed project under a Nationwide Permit No. 12, Utility Corridor, pursuant to Section 404 of the Clean Water Act (by letter dated June 6, 1995; see Attachment 3). Under the nationwide permit, Chevron must conduct all construction activities in compliance with the General Conditions specified by the Corps. These conditions are intended to minimize any potential effects on waters of the United States associated with earthmoving or other construction activities. The requirements include the use and maintenance of appropriate erosion and siltation controls during construction; the permanent stabilization of all exposed soil and other fills at the earliest practicable date; and, in wetlands, the placement of heavy equipment on mats, or other measures to minimize soil disturbance.

It should be noted that Chevron consulted with the CDFG in order to obtain a Streambed Alteration Agreement for the proposed project. A visit to the proposed project site was conducted with Warden Nicole Kozicki of the Region 3 office on August 9, 1995. The Agreement will be finalized during the week of August 14, upon Chevron's submittal of the completed application. Chevron would implement the project in strict accordance with the specific provisions of the Agreement in order to further protect the biological resources in the vicinity of Walnut Creek and Pacheco Slough. According to the results of the field meeting, the provisions would include the requirement to conduct all field work in the Pacheco Slough waterway prior to October 15. Construction may continue past October 15 at Walnut Creek, but Chevron would be required to consult with CDFG on a daily basis after this date.

4.8 ENERGY AND MINERAL RESOURCES

Would the proposal: a) Conflict with adopted energy conservation plans; b) Use non-renewable resources in a wasteful and inefficient manner; c) Result in the loss of availability of a known mineral resource that would be of future value to the region and the residents of the State?

The proposed pipeline reoperation and repair project would not conflict with adopted energy conservation plans and would not result in the use of non-renewable resources in a wasteful or inefficient manner. Implementation of the proposed project would not result in the loss of availability of any known mineral resource of future regional or statewide value. Minor amounts of fuel would be required for trucks, bulldozers and other equipment during the eight to ten week construction phase. Operation of the completed project would allow the continued safe, efficient transport of hydrocarbon product to the marketplace.

4.9 HAZARDS

Would the proposal involve: a) A risk of accidental explosion or release of hazardous substances (including, but not limited to: oil, pesticides, chemicals or radiation); b) Possible interference with an emergency response plan or emergency evacuation plan; c) The creation of any health hazard or potential health hazard; d) Exposure of people to existing sources of potential health hazards; e) Increased fire hazard in areas with flammable brush, grass, or trees?

The proposed project would not interfere with an emergency response or evacuation plan. No roadways or emergency corridors would be blocked during the eight to ten week construction period.

Risk of Upset. The proposed project involves repair and installation work within an existing pipeline R/W. The existing pipelines would continue to be operated while the new construction is being accomplished. The operation would then be shutdown, the new sections would be tied in, and operations would be restarted while the old sections of pipe are removed. Chevron would take every precaution to conduct the construction using the most current methods available. Radio-equipped field inspectors will be on site during the construction period. In addition, the operation of the pipelines will be monitored remotely in Houston, Texas, by Chevron's Supervisory Control and Data

Acquisition (SCADA) computer system. Pipeline pressure, pump status, product flowrate, and valve status are typical points that are observed by Chevron personnel (Controllers) on a 24 hour a day basis. The SCADA system also provides leak detection by comparing flowrate into the pipeline versus flowrate out and gives the Chevron Controllers the capability of shutting down the pipeline in case of an indicated emergency. On site operations and maintenance activities for all of the pipelines will continue to be provided by Chevron's crews which are based at Chevron's Los Medanos Station in Pittsburg, California.

While the risk of an explosion or any other upset conditions is extremely low, the remote potential exists for the release of hazardous substances into the environment. In the event of an accident, Chevron would proceed in accordance with the project-specific Oil Spill Contingency Plan described in Chapter 3.0. Procedures and equipment for major and minor spill events are outlined in Chevron's Oil Spill Contingency Plan, prepared in compliance with the federal Oil Pollution Act of 1990 (OPA) and subsequently revised in compliance with the California Oil Spill Prevention and Response Act (SB 2040).

Contaminated Soils. Due to the highly industrialized nature of the project corridor, the potential exists for contaminated soils to be encountered during excavation. In the event oil contaminated soils are encountered, the following steps would be taken to ensure worker protection:

- Immediately stop all work
- Contact Chevron Pipeline Inspector
- The Chevron Inspector will monitor the air at the work site for the following:
 - Benzene
 - Total Hydrocarbons

In the event Benzene is detected, the following precautions would be taken:

- All personnel working in the immediate area who could be exposed to the benzene must wear half mask organic vapor respirators.
- If levels exceed 10 PPM, full face organic respirators must be worn.
- If levels exceed 50 PPM (very unlikely), supplied air respirators must be worn.

If no benzene is detected, but hydrocarbon levels exceed 300 PPM, half-mask organic vapor respirators must be worn by all workers in the immediate area.

Monitoring should continue at adequate intervals to ensure that levels are not increasing as work progresses. Monitoring results should be recorded and files maintained for a period of one year.

Workers should avoid skin contact with contaminated soil. This may be accomplished by wearing cover all or tyvek suits. Oil resistant gloves should also be worn if there is a possibility of skin contact.

ACM Handling Requirements. Portions of the pipeline proposed for removal contain a small percentage of asbestos in the somastic coating or "P" wrap attached to them. As such, Chevron proposes to meet all applicable Asbestos Containing Material (ACM) handling requirements during construction. ACM compliance requirements are a combination of air, waste, and safety regulations administered by the Bay Area Air Quality Management District, the California Department of Toxic Substances Control (DTSC) and Cal OSHA, respectively. The ACM removal and handling requirements for these agencies are summarized in a table on the following page. A detailed flow chart outlining the procedures is provided in Attachment 5.

4.10 NOISE

Would the proposal result in: a) Increases in existing noise levels; b) Exposure of people to severe noise levels?

The project area is characterized as highly industrial in nature. The primary sources of noise in the vicinity include: 1) the Tosco Avon Refinery, 2) the Southern Pacific and Atchison Topeka and Santa Fe Railroads, 3) Highway 680, and 4) Buchanan Field, near Concord, and 5) general traffic in the vicinity of Pacheco Boulevard and Arthur Road. As a result, areas adjacent to the proposed construction corridor presently experience high noise levels, and short-term construction-related noise would not substantially increase the existing ambient noise. The noise produced during the eight- to ten-week construction period would be partially masked by refinery, railroad and highway noise in the immediate area.

In addition, no noise-sensitive land uses (residences, schools, hospitals) exist in proximity to the proposed project corridor. As such, the proposed project would not result in exposure of people to severe noise levels.

ACM HANDLING REQUIREMENTS SUMMARY

SOMASTIC OR P WRAP CONDITION	AGENCY	NOTIFICATION & REPORTING	PROCEDURES *	RECORD-KEEPING
Any condition	Cal OSHA	Courtesy phone call prior to starting job.	Wet material prior to removing and keep wet until placed in double lined asbestos bag according to attached procedure Bag must have OSHA asbestos warning label.	NONE
Any condition	California DTSC	NONE	Place in double lined ACM bag Label as Nonhazardous waste asbestos along with OSHA asbestos warning label Complete a nonhazardous bill of lading, send original with transporter, and retain a copy.	Retain non-hazardous bill of lading on file for a years.
Good condition	Bay Area AQMD	NONE	Follow procedures above for Cal OSHA and DTSC	Complete BAAQMD ACM notification form and retain Do Not submit to AQMD
Poor Condition (crumbling)	Bay Area AQMD	NONE if Less than 100 linear feet or 100 sq. ft. or 35 cu. ft. of ACM <u>removed from pipe</u> .	Follow procedures above for Cal OSHA and DTSC	Complete BAAQMD ACM notification form and retain Do Not submit to AQMD
Poor Condition (crumbling)	Bay Area AQMD	If Greater than 100 linear feet or 100 sq. ft. cu. ft. or 35 cu. ft. of ACM <u>removed from pipe</u> then submit written BAAQMD notification form and fee payment required at least 10 <u>WORKING DAYS IN ADVANCE</u> . If original work schedule changes additional notifications are required.	Hire a California licensed asbestos removal contractor. Contractor to follow all procedures for Cal OSHA, DTSC, and the BAAQMD.	Retain copy of BAAQMD notification form for 2 years.

Complete Procedures Are Contained in Attachment 5

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4.11 PUBLIC SERVICES

Would the proposal have an effect upon, or result in a need for new or altered government services in any of the following areas: a) Fire protection; b) Police protection; c) Schools; d) Maintenance of public facilities, including roads; e) Other governmental services?

The proposed project consists of the installation of an underground pipeline along an existing R/W, and the repair/replacement of existing underground pipelines within the R/W. As such, the proposed project would not have an effect upon, nor would it result in a need for new or altered government services including fire or police protection, schools, or maintenance of public facilities. The pipelines within the existing R/W would require no additional public service support for daily operation. The local fire departments are fully equipped and staffed to protect commercial and industrial land uses in the area. Chevron will submit the appropriate documentation to the Contra Costa County Consolidated Fire District regarding the reoperation of the TRPP. Notification would be provided to the Office of the State Fire Marshal.

4.12 UTILITIES AND SERVICE SYSTEMS

Would the proposal result in a need for new systems or supplies, or substantial alterations to the following utilities: a) Power or natural gas; b) Communications systems; c) Local or regional water treatment or distribution facilities; d) Sewer or septic tanks; e) Storm water drainage; f) Solid waste disposal; g) Local or regional water supplies?

The proposed project consists of the installation of an underground pipeline along an existing R/W, and the repair/replacement of an existing underground pipeline within the R/W. As such, the proposed project would not result in a need for new power, natural gas, or communications systems. Furthermore, no additional water treatment or distribution facilities, sewers, septic tanks, storm water drainage facilities, solid waste disposal facilities, or water supplies would be necessary as a result of project implementation.

The general pipeline construction contractor will be responsible for the disposal of miscellaneous trash and debris from the construction operation at appropriate dump sites.

4.13 AESTHETICS

Would the proposal: a) Affect a scenic vista or scenic highway; b) Have a demonstrable negative aesthetic effect; c) Create light or glare?

The proposed project would not affect a scenic vista or have a negative aesthetic effect. The project would involve the continued use of an existing pipeline R/W. The visual character of much of the R/W is highly industrial in nature, reflecting the land uses on and around the project site. The Atchison, Topeka and Santa Fe (AT&SF) railroad alignment is the main visual feature of the eastern two-thirds of the project site; views of the western third of the site primarily encompass Pacheco Boulevard and parking lots. Surrounding views are slightly more diverse. At the eastern end, foreground views consist primarily of the AT&SF railroad tracks, while the tanks and processing facilities of Tosco's Avon Refinery dominate middle- and background views. Near Walnut Creek, the visual quality remains low, with flat, undeveloped areas, salt ponds, and high-voltage electrical transmission lines and towers comprising the predominant visual elements. West of Highway 680, the R/W leaves the railroad line to traverse an area characterized by low-rise office and industrial uses in the foreground and middle-ground, with rolling to steep hills visible in the background.

The project would not create light or glare. Construction activities would be carried out during daylight hours and would not require special lighting. The completed pipelines would be buried.

4.14 CULTURAL RESOURCES

Would the proposal: a.) Disturb paleontological resources; b) Disturb archaeological resources; c) Affect historical resources; d) Have the potential to cause a physical change which would affect unique ethnic cultural values; e) Restrict existing religious or sacred uses within the potential impact area?

Chevron consulted with the Northwest Information Center at Sonoma State University regarding cultural resources in the project area. The following information is adapted from the Information Center's recommendations letter to Chevron, dated July 3, 1995 (a complete copy of which is contained in Attachment 3).

A review of records and literature on file at the Information Center indicated that the proposed project area contains no recorded Native American cultural resources listed with the California Archaeological Inventory. State and Federal Inventories list no historic properties in the project area. Native American archaeological sites in this portion of Contra Costa County tend to be situated on historic bay margins and marshes, as well as on alluvial flats near sources of fresh water. The project area encompasses all three of the aforementioned ectones. Given the environmental setting of the project area, there is a high potential for Native American sites in the project area.

Review of historic literature and maps on file at the Northwest Information Center indicated that there were homesteads along Pacheco and Walnut Creeks (GLO 1858 & 1864). With this in mind, there is a moderate possibility of historic cultural resources in the project area.

The Information Center's recommendations are as follows:

- 1) There is a possibility of Native American and historic cultural resources in the project area. The project area has been previously disturbed by pipeline, road and railroad construction to a depth of several inches. The current project will impact mostly the areas that have been previously disturbed, therefore further archival and field study by an archaeologist is not recommended at this time.
- 2) Review for possible historic structures has included only those sources listed in the attached bibliography and should not be considered comprehensive with respect to architecture. The Office of Historic Preservation has determined that buildings and structures 45 years or older may be of historic value. If the project area contains such properties, they should be evaluated, prior to commencement of project activities.
- 3) Please keep in mind that there is a possibility of buried cultural resources in the project area. If cultural resources are encountered during the project, avoid altering the materials and their context until a cultural resource consultant has evaluated the situation. Project personnel should not collect cultural resources. Prehistoric resources include chert and obsidian flakes, projectile points, mortars, and pestles, and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits, often in old wells and privies.

- 4) Identified cultural resources should be recorded on forms DPR 422 (archaeological sites) and/or DPR 523 (historic properties) or similar forms.

Chevron would conduct the construction phase of the project in strict accordance with the Information Center's recommendations. As such, the proposed project would not cause adverse impacts to cultural resources.

4.15 RECREATION

Would the proposal: a) Increase the demand for neighborhood or regional parks or other recreational facilities; b) Affect existing recreational opportunities?

The proposed project would not increase the demand for parks or other recreational facilities, nor would it affect existing recreational opportunities. The project area consists of an existing pipeline R/W in a highly industrialized area of Contra Costa County. No recreational uses are known to exist in the project area. As such, no impacts are expected.

4.16 MANDATORY FINDINGS OF SIGNIFICANCE

a) Does the project have the potential to degrade the quality of the environment, substantially 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?

Implementation of the proposed pipeline work in the existing right-of-way would not degrade the quality of the environment, nor would it reduce fish or wildlife habitat, population, or community. Detailed surveys conducted in consultation with the resource agencies determined that the project would not affect rare or endangered species. The proposed project would not affect historic or prehistoric resources, as indicated by consultation with the Northwest Archaeological Information Center.

b) Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?

The proposed project would not cause short-term or long-term significant adverse impacts. Implementation of the project would allow the continued transport of hydrocarbon products to the marketplace by utilizing the safest, most economical means available.

c) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

The proposed project would not have impacts that are cumulatively considerable. The proposed project would cause short-term effects during the eight to ten week construction period. However, these effects would be incurred along an existing pipeline R/W in a highly degraded, industrial environment and would not be considered to result in cumulatively considerable impacts.

d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Implementation of the proposed pipeline work within the existing right-of-way would not cause substantial adverse effects on human beings. The project corridor is located in a highly industrialized area; neither construction nor continued operation of the pipelines would result in direct or indirect effects.

ORGANIZATIONS AND PERSONS CONSULTED

Chevron has consulted with the following agencies and organizations regarding the proposed project:

Bay Area Air Quality Management District**California Regional Water Quality Control Board, San Francisco Bay Region**

Martin Musange

Dick Whitsol

California Department of Fish and Game

Mike Buelma

Nicole Kozicki

Carl Wilcox

California Department of Toxic Substances Control**California Department of Transportation (CalTrans)****California State Lands Commission**

Diane Jones

Dave Plummer

Nanci Smith

Goodyear K. Walker

Contra Costa County Community Development Department

Dennis Barry

John Capozzo

Northwest Archaeological Information Center**San Francisco Bay Conservation and Development Commission****US Army Corps of Engineers, San Francisco District**

John Hendricks

US Fish and Wildlife Service

Mike Thabault

Chevron has also consulted with each of the landowners along the proposed project R/W. Attachment 6 contains a landowner coordination report which summarizes the results of this consultation. The contact report is followed by a brief Coordination Plan which outlines the steps that Chevron proposes to take in order to respond to each owner or tenant's specific concerns regarding the project.

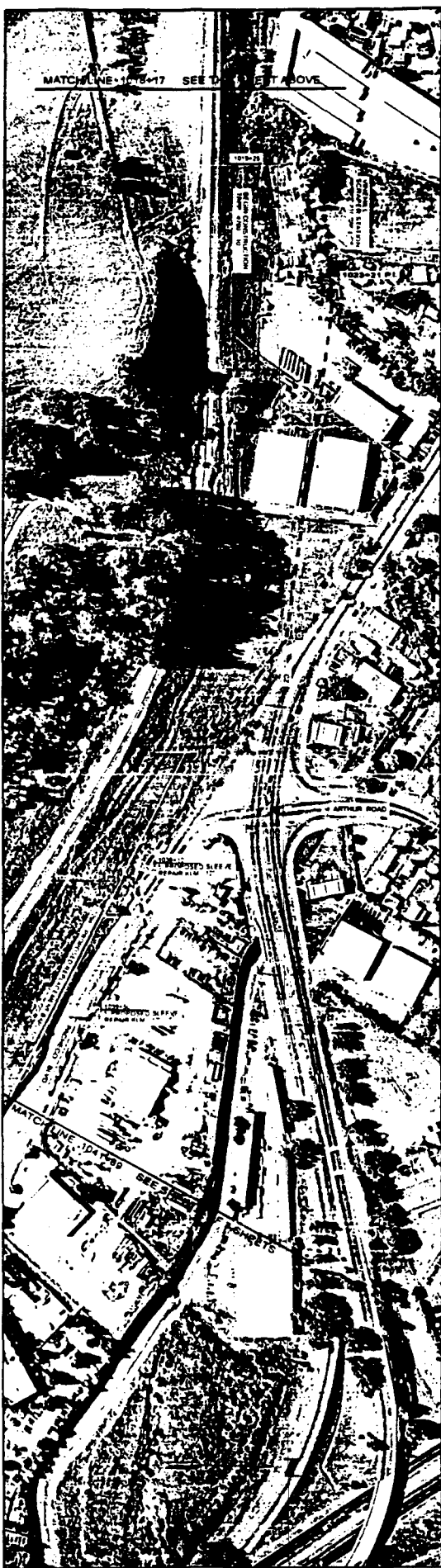
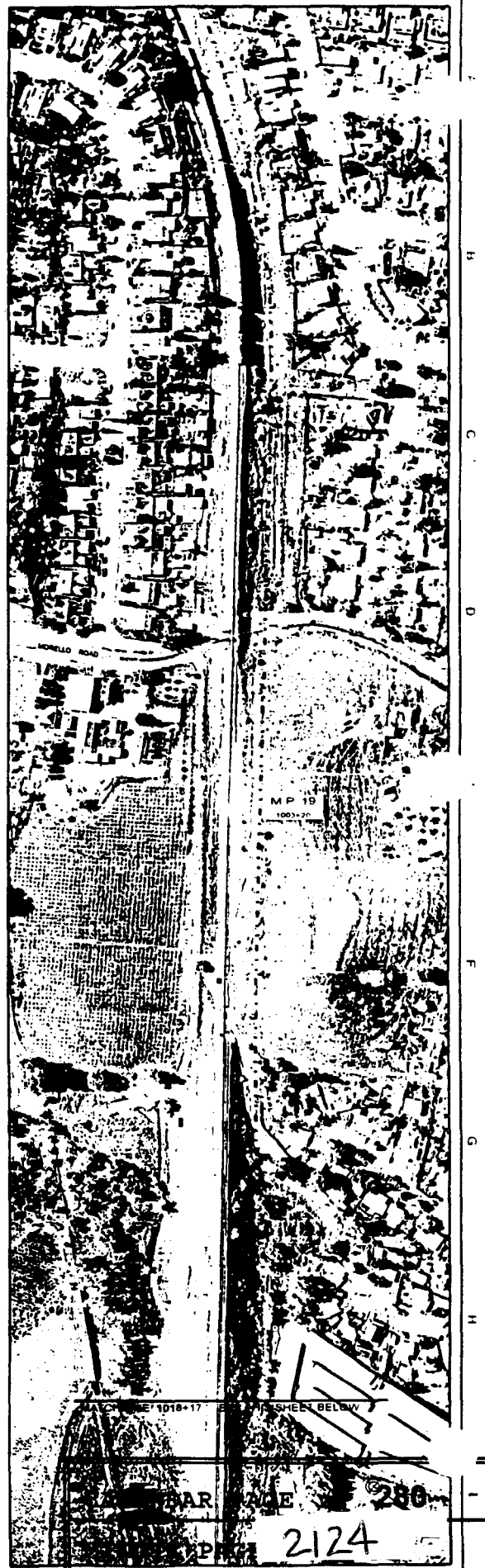
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ATTACHMENT 1

AERIAL PHOTOGRAPHS

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LEGEND

--- EXISTING PIPELINES NOT IN PROJECT AREA

--- PROPOSED PIPELINE CONSTRUCTION

--- UTILITY EXISTING PIPELINES

--- C7 (CONSTRUCTED) ZONE

CD-0226

THIS PROJECT IS A PART OF THE CALIFORNIA HIGH SPEED RAIL PROJECT. THE PROJECT IS A PART OF THE CALIFORNIA HIGH SPEED RAIL PROJECT. THE PROJECT IS A PART OF THE CALIFORNIA HIGH SPEED RAIL PROJECT.

NOT TO SCALE

THESE LINES ARE NOT TO BE CONSIDERED AS A PART OF THE PROJECT. THESE LINES ARE NOT TO BE CONSIDERED AS A PART OF THE PROJECT. THESE LINES ARE NOT TO BE CONSIDERED AS A PART OF THE PROJECT.

ATTACHMENT 2

HDD CONSTRUCTION METHODOLOGY

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TYPICAL EXECUTION PLAN & PROCEDURE FOR HORIZONTAL DIRECTIONAL DRILLING

✦ LAND SURVEY

On every crossing a comprehensive land survey is required. The survey is generally taken by the owner or owner's representative such as an engineering group employed by the owner. The HDD Contractor requests a detailed profile and plan drawing, complete with accurate horizontal distances. These distances can either be measured by a survey party who physically chains the distances, or shot by EDM (Electronic Distance Measurement). Survey hubs should be placed on the entry and exit points. If entry and exit points are unknown, the hubs with elevation and station marks should be placed in the approximate vicinity of the proposed alignment of the crossing.

The HDD Contractor Corporation should double check each point as directional calculations for azimuth and inclinations are derived from these control points.

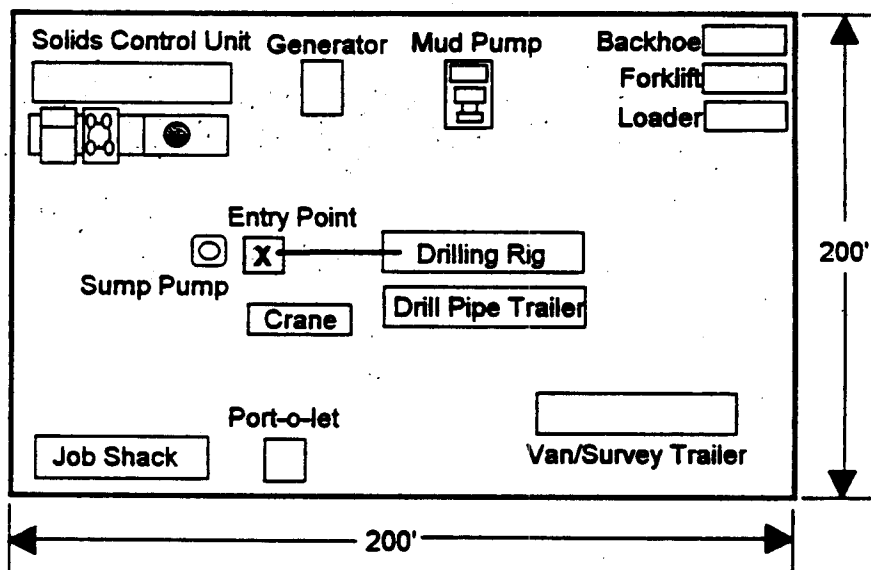
✦ DRILLING SITE PREPARATION

The HDD Contractor Corporation recommends two staging areas, one at entry and one at exit. The sites must be relatively flat and without obstructions, such as large trees and dense brush.

The following is an example drawing that illustrates the typical area needed to set up the drilling equipment on the **ENTRY SIDE**:

EXHIBIT "A"

Typical Entry Set-Up

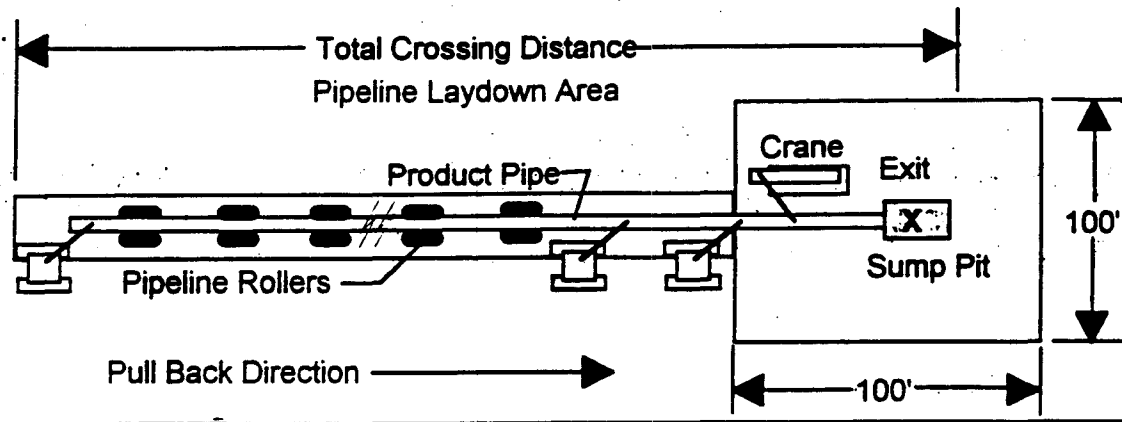


The ideal drill staging requires an area of approximately 200 feet x 200 feet. However, The HDD Contractor's equipment can be set up in a small staging area if overall space becomes a problem.

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EXHIBIT "B"
Typical Exit Set-Up



PIPELINE SITE PREPARATION

The pipeline staging area must be of sufficient length to accommodate the overall curve distance of the proposed crossing. It's width may vary according to the size pipeline that is being installed. Typically, The HDD Contractor would need approximately 50 feet to 75 feet to permit the pipeline equipment sufficient working space for hauling, stringing, welding and testing the continuous pipeline length that will be installed. If the space available to perform this work is limited, and one continuous pipeline length becomes impractical, then two or three smaller strings may be used. The pull back operation would stop while the pipeline lengths are aligned and welded. This is not recommended as it adversely increases the risk of the pipe becoming stuck.

DIRECTIONAL HEADING AND ALIGNMENT

Wire Line Steering Tool Survey

The directional heading (azimuth) must be taken on the proposed alignment of the crossing. All ferrous objects need to remain at a safe distance from the alignment area. The in-hole steering tool used for guidance has North referencing magnetometers that establish a magnetic heading. Ferrous objects interfere with the magnetometers and influence it's accuracy.

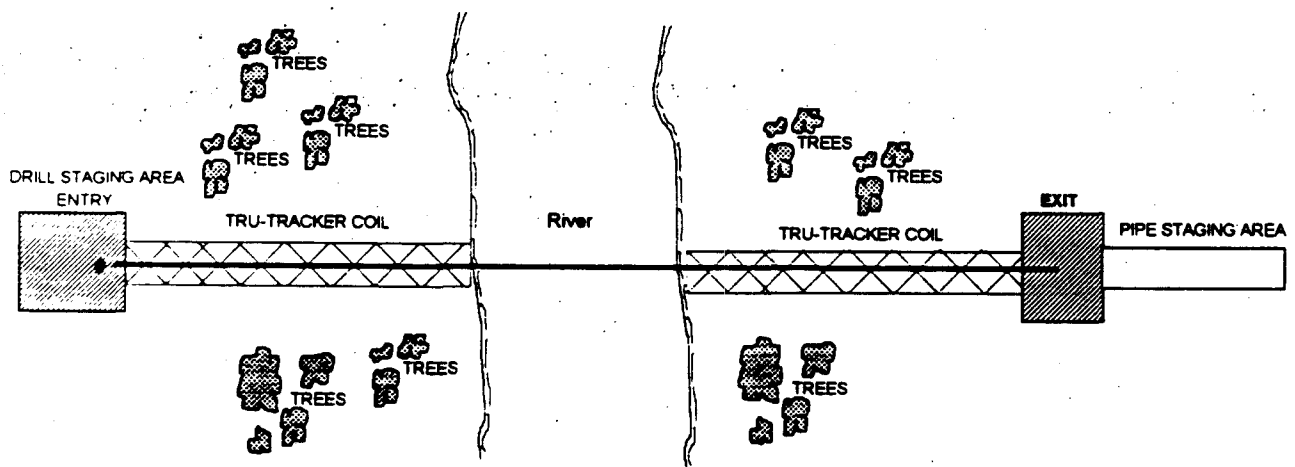
The steering tool is placed within a non-magnetic bottom hole assembly (BHA). This is a 30 foot section of drill pipe made up of a non-magnetic material such as stainless steel, monil, or aluminum. This "lead piece" of the BHA is placed on the alignment of the crossing from entry to exit. Once on this alignment, the steering probe is energized with electrical current and a bearing for the project is established and logged into the surface computer. (North is a 0 or 360 degrees, East is at 90 degrees, South is at 180 degrees and West is at 270 degrees on the face of a circle.)

True Tracker Survey System

While the wire line steering tool has been a tried and true method of surveying for Horizontal Directional Drilling in the past, more and more projects are being designed in pipeline corridors that have many existing lines. The north referencing steering tool is influenced and becomes less accurate when ferrous objects such as these pipelines are encountered while drilling. Another inherent problem with accuracy occurs on longer projects where the potential of a slight bearing differential in tenths, causes an overall error that may add up to many feet over the entire length of the crossing. Therefore, a survey guidance system is now used to actually track the drilling head on each side of the river.

This tracking system is generally set up on land in a grid or coil fashion (see Exhibit "C"). The tracking grid or coil is configured by the using the depth of the proposed trajectory of the drilled path. Ordinarily, the grid or coil is set-up at the same width as the proposed depth of the drilled path on the land surface. The Tru Tracker has an accuracy of +/- 2% according to the manufactures accuracy standards. The length of the coil may be as long as 1,000' feet, and generally depends on the distance to the water. Once the tracking coils have been established and set, elevations are taken on each of the corners. Up to 32 corners can be used for these coils, however, it is the manufactures recommendation they be kept to a minimum. Having set the tracking coils, a magnetic field is created from current flow through the coil. The down hole probe senses this current and triangulates the location of the drill head by using this known geometry. For the precise accuracy of the of most all projects undertaken today, a combination of these modes is used. On the land segment the Tru Tracker will be used, once the drill path reaches the ocean, the North referencing steering mode will be used.

EXHIBIT "C" Typical Survey Layout



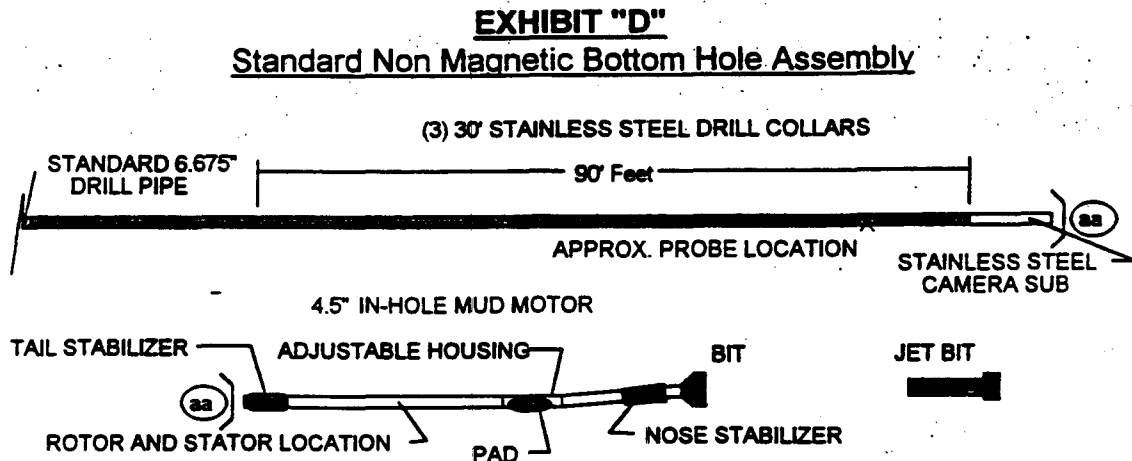
THE PILOT HOLE

Once the heading has been established on the proposed crossing alignment, the drilling rig is set precisely on line with a transit. The non-magnetic BHA's "lead piece" that contains the

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steering probe inside, and the directional tool that creates in-hole deviations are drilled in at exactly the designated entry point. Two additional non-magnetic drill pipe are added and drilled in behind the non-magnetic "lead piece" of the BHA. These additional pipes make up the non-magnetic BHA and serve as a buffer between the steering probe in the "lead piece" and the steel drill pipe that would create interference.



The pilot hole is advanced linearly along a pre-determined profile. Directional deviation in azimuth and inclination are made accordingly to stay on the pre-determined inarcuate pathway.

Survey's are taken at 15 and 30 foot stations throughout the pilot hole. These are calculated and plotted on a work profile and plan drawing. This allows the survey technician to track vertical depth, horizontal distance and right/left bearing drift at all times during the project. Survey inclination and bearing numbers are given every eight seconds during the course of drilling one 30 foot section of drill pipe.

The HDD Contractor Corporation uses two methods to penetrate formations:

I. SPUD JET

This method uses hydraulics to erode the formation away for penetration of softer formations like sands, silts and clays.

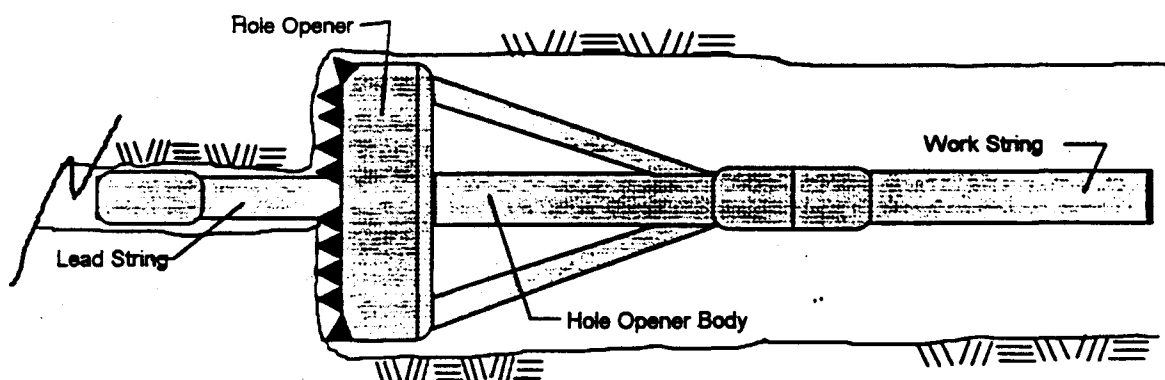
II. IN-HOLE MUD MOTOR

This method uses a motor based on the Moineau principle and represents a highly efficient hydraulic, positive displacement motor. It converts hydraulic horsepower from the drilling fluid (volume and pressure) into mechanical horsepower (torque and rpm), which drives the drill bit only and allows hole deviation to occur when used in conjunction with a bent housing. This method is used to drill harder rock formations such as sandstone, shale, limestone and granite.

☒ PRE-REAM AND PIPE INSTALLATION

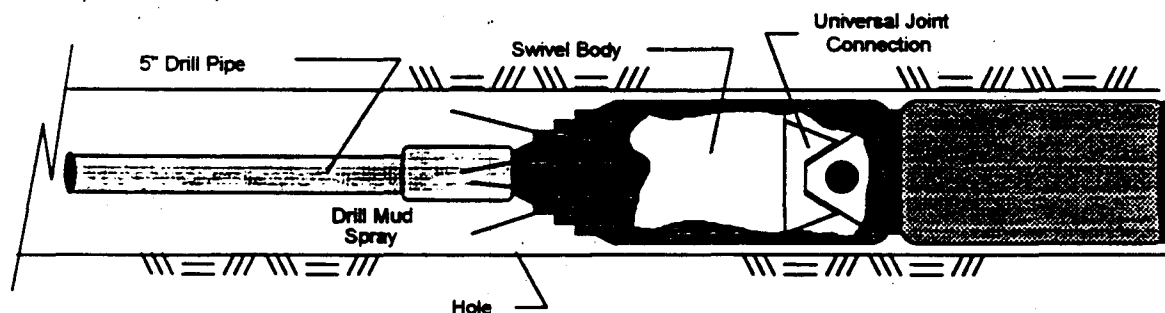
After the pilot hole is exited on line and is accepted, the non-magnetic BHA is taken off. A reaming device slightly larger than the outside diameter (O.D.) of the pipe is then attached. Typically, the reamer is sized approximately 35% to 50% larger than the O.D. of the pipe. The reamer is then rotated and pulled forward toward the exit side. Bentonite is injected through the drill pipe to the reamer. This aids in the penetration rate of the reamer but, more importantly, it suspends the cuttings and keeps the hole filled. The slurry weight of the bentonite and drilled solids can reach mud densities up to 12 lbs. per gallon in a pre-reamed hole.

EXHIBIT "E"
Typical Forward Reamer



A lead string will be used on the forward-ream. It is simply the addition of the drill string at the entry side while the hole is being reamed. As each piece of drill pipe is taken off at the exit side, a joint of drill pipe will be added on the entry side. This insures the hole will have drill pipe in it continually, and reduce the possibility of losing the bore hole. The amount of fluid used during the pre-reaming is directly related to the time it takes to open up the desired diameter hole.

EXHIBIT "F"
Typical Swivel Assembly



Once the reamer has reached the exit side and has been taken off, a pulling apparatus will be attached to the trailing string on the exit side. A jet swivel will be attached to the product pipe so the pilot work string is able to rotate. An exit angle

of approximately eight to ten
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degrees will have been established allowing the product pipe to gently free stress into the open hole on exit side.

A large crane equipped with specialized cradles will assist the pipe to free stress into the hole by lifting the pipe approximately 50 to 100 feet from the leading end. Additional side boom tractors will be used in between the first roller and the stationary break over crane. The product pipe will be placed on pipe rollers prior to the pull back. Once the breakover crane and lead side boom tractors have been positioned correctly, the pull back operation will begin.

As the pipe is being pulled into the open hole, drilling fluid is pumped through the rotating jet swivel. This aids in the further suspension of the drilled solids that may be in the hole. These solids are removed by the velocity of the fluid coming out when the pipe displaces the drilling fluids in the open hole.

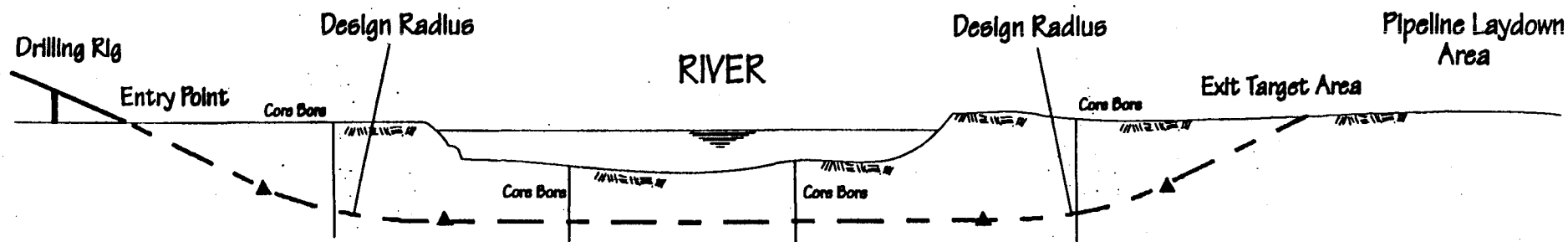
After the pipe reaches the entry side, the jet swivel will be taken off, the pipe will be capped, and a post test will be conducted to insure the pipeline's integrity.

HDD DESIGN CRITERIA

- Set Up Area
- Product Pipe Laydown Area
- Radius of Curvature
- Cover Depth
- Product Pipe Design & Coating Selection
- Geotechnical Considerations

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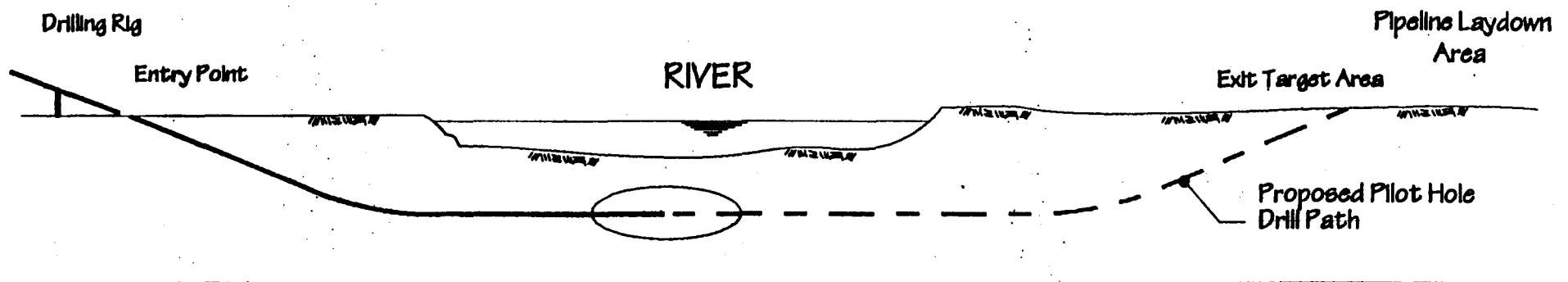


PILOT HOLE

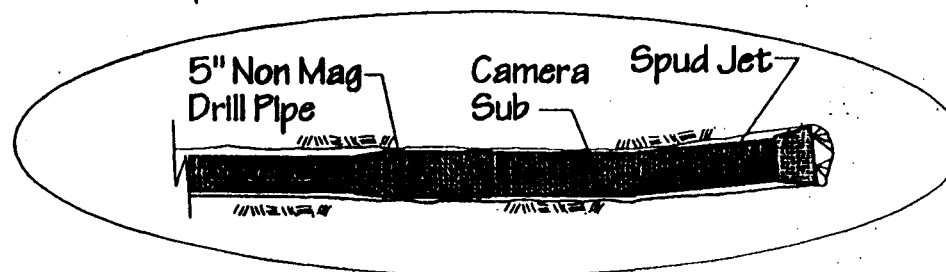
- 5" Drill Pipe Pilot Work String
- 7.5" Spud Jet
- Tensor Wire Line Steering Tool w/ Tru Tracker

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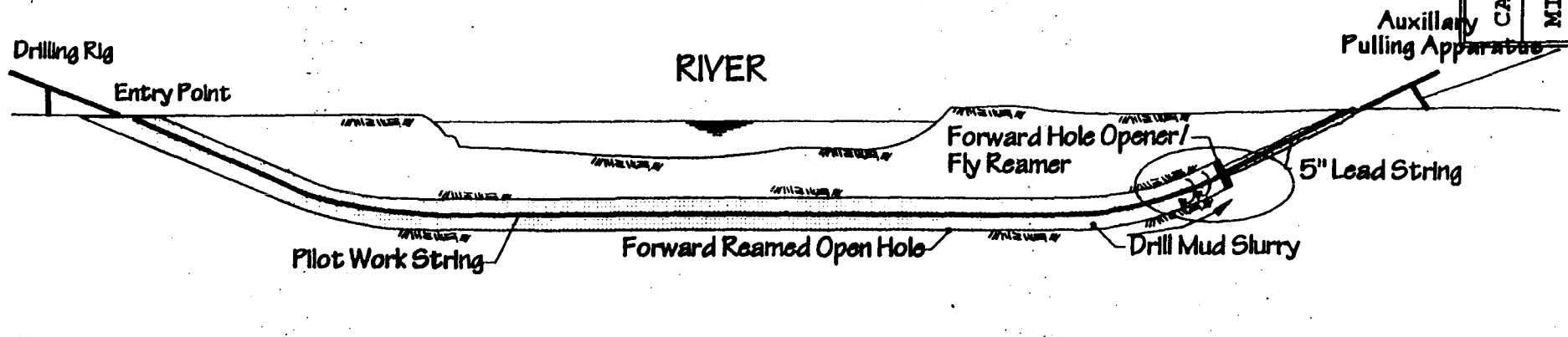


BOTTOM HOLE ASSEMBLY DETAIL



FORWARD PRE REAM (Optional)

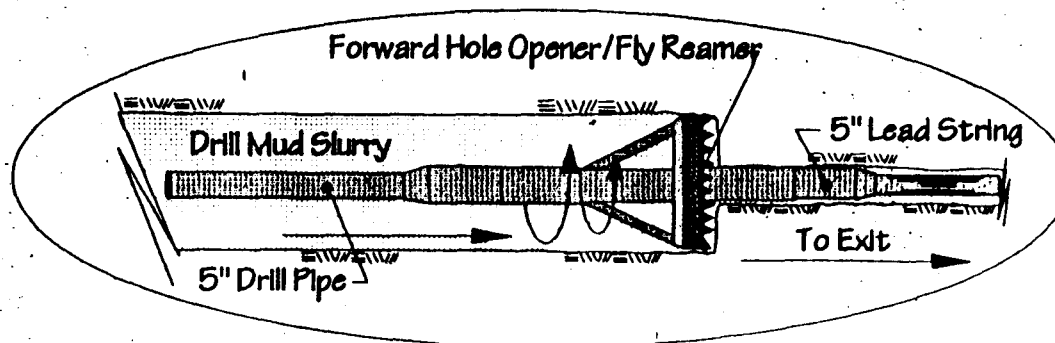
- 24" Forward Hole Opener / Fly Reamer
- 5" Drill Pipe
- Drilling Mud Slurry
- 5" Lead String



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FORWARD PRE REAMING DETAIL

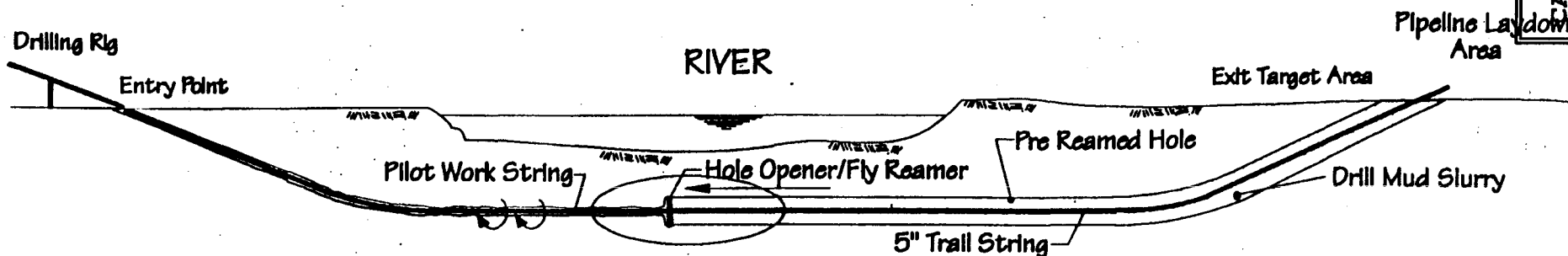


PRE REAM

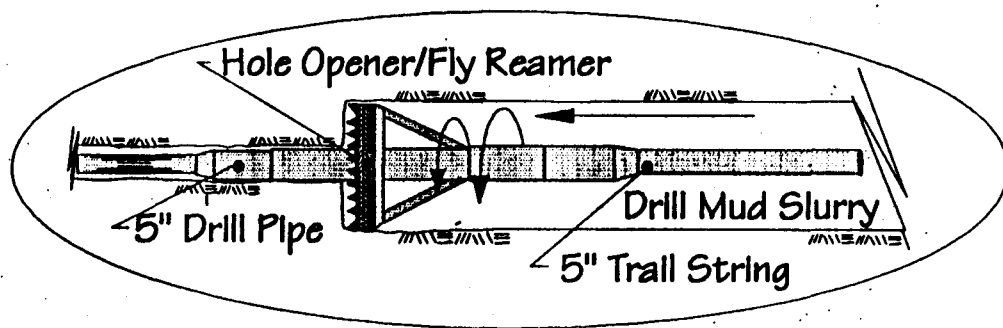
- 24" Hole Opener / Fly Cutter
- 5" Trailing String
- 5" Drill Pipe

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PRE REAM DETAIL



PRODUCT PIPE PULLBACK

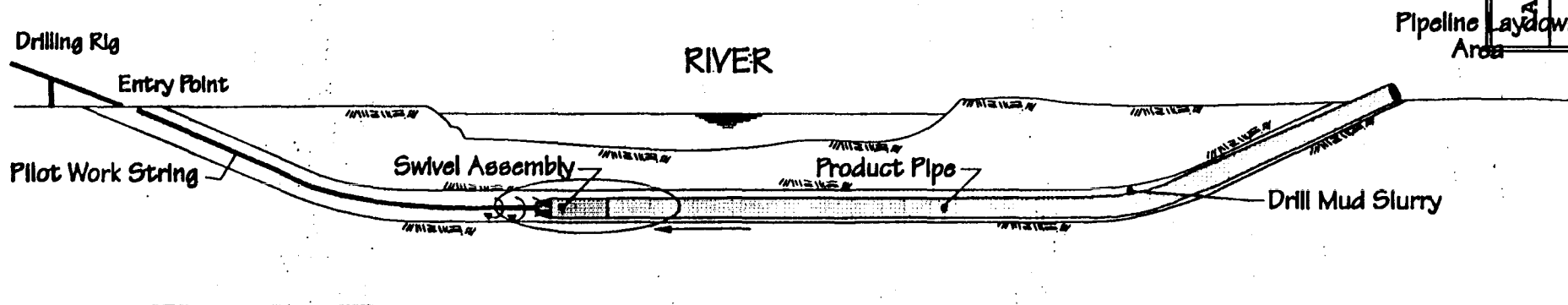
- External Flush Swivel Assembly
- 5" Drill Pipe
- Drilling Mud Slurry

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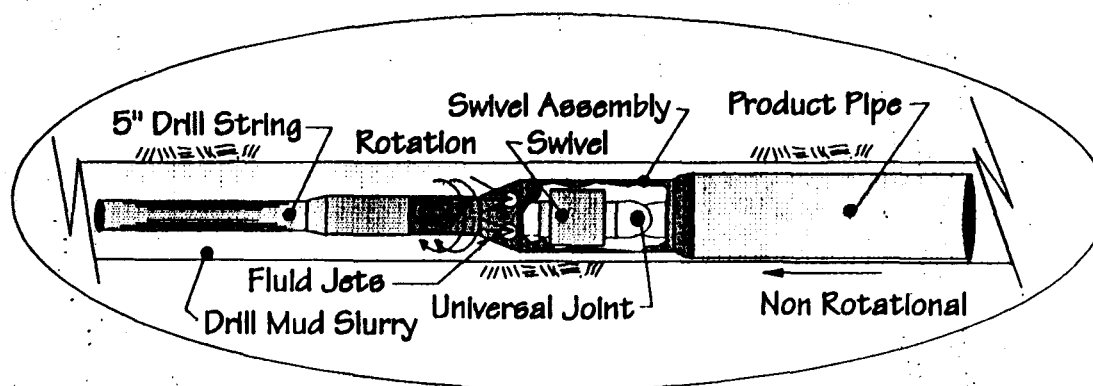
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PULL BACK DETAIL



ATTACHMENT 3

AGENCY CONSULTATION DOCUMENTATION

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DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, CORPS OF ENGINEERS
211 MAIN STREET
SAN FRANCISCO, CALIFORNIA 94105-1905

JUN 06 1995

REPLY TO
ATTENTION OF:

Regulatory Branch

Subject: File Number 21599S76

Mr. D. R. Ashurst, Project Engineer
Western Business Unit
Chevron Pipeline Company
5080 California Avenue, Suite 400
Bakersfield, California 93309-1671

Dear Mr. Ashurst:

This is in reference to your submittal of April 28, 1995, concerning Department of the Army authorization to perform construction activities to replace portions of a product pipeline between the Tosco Refinery and the Vine Hill station, in the City of Martinez, Contra Costa County, California.

Your project qualifies under a Department of the Army Nationwide Permit, 33 CFR 330, Appendix A (B) (12) Utility Line Backfill and Bedding, pursuant to Section 404 of the Clean Water Act (33 U.S.C 1344).

This authorization will not be effective until Section 401 water quality certification or a waiver of certification has been obtained from the San Francisco Bay Regional Water Quality Control Board.

To ensure compliance with the nationwide permit, the following special conditions shall be implemented:

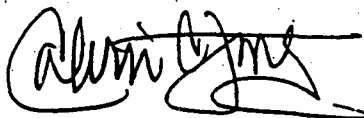
This authorization will remain valid until January 22, 1997, at which time all nationwide permits are scheduled to be modified, reissued, or revoked. If you commence or are under contract to commence work before the date the nationwide permit is modified or revoked, you will have twelve months from the date of the modification or revocation to complete the project under the present conditions of this nationwide permit.

The project must be in compliance with the General Conditions cited in Enclosure 1 and all Special Conditions that may be specified above for the nationwide permit to remain valid. Non-compliance with any condition could cancel the nationwide permit authorization for your project, thereby requiring you to obtain an individual permit from the Corps. The nationwide permit authorization does not obviate the need to obtain other State or local approvals required by law.

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You may refer all questions to Mark D'Avignon of our Regulatory Branch at 415-744-3324 Ext. 236. All correspondence should be addressed to the District Engineer, Attention: Regulatory Branch, referencing file number 21599S76.

Sincerely,



Calvin C. Fong
Chief, Regulatory Branch

Enclosure

Copy furnished:

US F&WS, Sacramento, CA
US EPA, San Francisco, CA
US NMFS, Santa Rosa, CA
CA RWQCB, Santa Rosa, CA
CA F&G, Redding, CA

NATIONWIDE PERMIT CONDITIONS

33 CFR Part 330 EFFECTIVE DATE: January 21, 1992

GENERAL CONDITIONS:

The following general conditions must be followed in order for any authorization by a nationwide permit to be valid:

1. **Navigation.** No activity may cause more than a minimal adverse effect on navigation.

2. **Proper maintenance.** Any structure or fill authorized shall be properly maintained, including maintenance to ensure public safety.

3. **Erosion and siltation controls.** Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills must be permanently stabilized at the earliest practicable date.

4. **Aquatic life movements.** No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species which normally migrate through the area, unless the activity's primary purpose is to impound water.

5. **Equipment.** Heavy equipment working in wetlands must be placed on mats or other measures must be taken to minimize soil disturbance.

6. **Regional and case-by-case conditions.** The activity must comply with any regional conditions which may have been added by the division engineer (see 33 CFR 330.4(e)) and any case specific conditions added by the Corps.

7. **Wild and Scenic Rivers.** No activity may occur in a component of the National Wild and Scenic River System; or in a river officially designated by Congress as a "study river" for possible inclusion in the system, while the river is in an official study status. Information on Wild and Scenic Rivers may be obtained from the National Park Service and the U.S. Forest Service.

8. **Tribal rights.** No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

9. **Water quality certification.** In certain states, an individual state water quality certification must be obtained or waived (see 33 CFR 330.4(c)).

10. **Coastal zone management.** In certain states, an individual state coastal zone management consistency concurrence must be obtained or waived. (see Section 330.4(d)).

11. **Endangered Species.** No

activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act, or which is likely to destroy or adversely modify the critical habitat of such species. Non-federal permittees shall notify the district engineer if any listed species or critical habitat might be affected or is in the vicinity of the project and shall not begin work on the activity until notified by the district engineer that the requirements of the Endangered Species Act have been satisfied and that the activity is authorized. Information on the location of threatened and endangered species and their critical habitat can be obtained from the U.S. Fish and Wildlife Service and National Marine Fisheries Service. (see 33 CFR 330.4(f))

12. **Historic properties.** No activity which may affect Historic properties listed, or eligible for listing, in the National Register of Historic Places is authorized, until the DE has complied with the provisions of 33 CFR 325, Appendix C. The prospective permittee must notify the district engineer if the authorized activity may affect any historic properties listed, determined to be eligible, or which the prospective permittee has reason to believe may be eligible for listing on the National Register of Historic Places, and shall not begin the activity until notified by the District Engineer that the requirements of the National Historic Preservation Act have been satisfied and that the activity is authorized. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places (see 33 CFR 330.4(g)).

13. **Notification:** (a) Where required by the terms of the NWP, the prospective permittee must notify the District Engineer as early as possible and shall not begin the activity:

(1) Until notified by the District Engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) If notified by the District or Division engineer that an individual permit is required; or

(3) Unless 30 days have passed from the District Engineer's receipt of the notification and the prospective permittee has not received notice from the District

or Division Engineer. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) The notification must be in writing and include the following information and any required fees:

(1) Name, address and telephone number of the prospective permittee;

(2) Location of the proposed project;

(3) Brief description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), regional general permit(s) or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity.

(4) Where required by the terms of the NWP, a delineation of affected special aquatic sites, including wetlands.

(5) A statement that the prospective permittee has contacted:

(i) The USFWS/NMFS regarding the presence of any Federally listed (or proposed for listing) endangered or threatened species or critical habitat in the permit area that may be affected by the proposed project; and any available information provided by those agencies. (The prospective permittee may contact Corps District Offices for USFWS/NMFS agency contacts and lists of critical habitat.)

(ii) The SHPO regarding the presence of any historic properties in the permit area that may be affected by the proposed project; and the available information, if any, provided by that agency.

(c) The standard individual permit application form (Form ENG 4345) may be used as the notification but must clearly indicate that it is a PDN and must include all of the information required in (b)(1)-(5) above.

(d) In reviewing an activity under the notification procedure, the District Engineer will first determine whether the activity will result in more than minimal individual or cumulative adverse environmental effects or will be contrary to the public interest. The prospective permittee may, at his option, submit a

proposed mitigation plan with the pre-discharge notification to expedite the process and the District Engineer will consider any optional mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed

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work are minimal. The District Engineer will consider any comments from Federal and State agencies concerning the proposed activity's compliance with the terms and conditions of the nationwide permits and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. The district engineer will upon receipt of a notification provide immediately (e.g. facsimile transmission, overnight mail or other expeditious manner) a copy to the appropriate offices of the Fish and Wildlife Service, State natural resource or water quality agency, EPA, and, if appropriate, the National Marine Fisheries Service. With the exception of NWP 37, these agencies will then have 5 calendar days from the date the material is transmitted to telephone the District Engineer if they intend to provide substantive, site-specific comments. If so contacted by an agency, the District Engineer will wait an additional 10 calendar days before making a decision on the notification. The District Engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency. The District Engineer will indicate in the administrative record associated with each notification that the resource agencies' concerns were considered. Applicants are encouraged to provide the Corps multiple copies of notifications to expedite agency notification. If the District Engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects are minimal, he will notify the permittee and include any conditions he deems necessary. If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then he will notify the applicant either: (1) that the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; or (2) that the project is authorized under the nationwide permit subject to the applicant's submitting a mitigation proposal that would reduce the adverse effects to the minimal level. This mitigation proposal must be approved by the District Engineer prior to commencing work. If the prospective permittee elects to submit a mitigation plan, the DE will expeditiously review the proposed mitigation plan, but will not commence a second 30-day notification procedure. If

the net adverse effects of the project (with the mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant informing him that the project can proceed under the terms and conditions of the nationwide permit.

(e) Wetlands Delineations: Wetland delineations must be prepared in accordance with the Federal Manual for Identifying and Delineating Jurisdictional Wetlands or the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic site. There may be some delay if the Corps does the delineation. Furthermore, the 30-day period will not start until the wetland delineation has been completed.

(f) Mitigation: Factors that the District Engineer will consider when determining the acceptability of appropriate and practicable mitigation include, but are not limited to:

(1) To be practicable the mitigation must be available and capable of being done considering costs, existing technology, and logistics in light of overall project purposes;

(2) To the extent appropriate, permittees should consider mitigation banking and other forms of mitigation including contributions to wetland trust funds, which contribute to the restoration, creation, replacement, enhancement, or preservation of wetlands.

Furthermore, examples of mitigation that may be appropriate and practicable include but are not limited to: reducing the size of the project; establishing buffer zones to protect aquatic resource values; and replacing the loss of aquatic resource values by creating, restoring, and enhancing similar functions and values. In addition, mitigation must address impacts and cannot be used to offset the acreage of wetland losses that would occur in order to meet the acreage limits of some of the nationwide permits (e.g. 5 acres of wetlands cannot be created to change a 6 acre loss of wetlands to a 1 acre loss; however, the 5 created acres can be used to reduce the impacts of the 6 acre loss).

SECTION 404 ONLY CONDITIONS:

In addition to the General Conditions, the following conditions apply only to

activities that involve the discharge of dredged or fill material and must be followed in order for authorization by the nationwide permits to be valid:

1. Water supply intakes. No discharge of dredged or fill material may occur in the proximity of a public water supply intake except where the discharge is for repair of the public water supply intake structures or adjacent bank stabilization.

2. Shellfish production. No discharge of dredged or fill material may occur in areas of concentrated shellfish production, unless the discharge is directly related to a shellfish harvesting activity authorized by nationwide permit 4.

3. Suitable material. No discharge of dredged or fill material may consist of unsuitable material (e.g., trash, debris, car bodies, etc.) and material discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

4. Mitigation. Discharges of dredged or fill material into waters of the United States must be minimized or avoided to the maximum extent practicable at the project site (i.e. on-site), unless the DE has approved a compensation mitigation plan for the specific regulated activity.

5. Spawning areas. Discharges in spawning areas during spawning seasons must be avoided to the maximum extent practicable.

6. Obstruction of high flows. To the maximum extent practicable, discharges must not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).

7. Adverse impacts from impoundments. If the discharge creates an impoundment of water, adverse impacts on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable.

8. Waterfowl breeding areas. Discharges into breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

9. Removal of temporary fills. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

2101 WEBSTER STREET, SUITE 500
OAKLAND, CA 94612TEL: (510) 286-1255
FAX: (510) 286-1380
BBS: (510) 286-6404

JUL 24 1995

Date:

File No.: 2118.03(MYM)

Lt. Col. Michael Walsh
District Engineer
U. S. Army Corps of Engineers
211 Main Street
San Francisco, CA 94105-1905

Attn: Ms. Liz Varnhagen

SUBJECT: WATER QUALITY CERTIFICATION WAIVER (Corps File No. 21599S76) - Pipeline Installation Project, Martinez, Contra Costa County

Dear Lt. Colonel Walsh:

We have reviewed the proposal from Mr. Doug Ashurst, on behalf of Chevron Pipeline Company with regard to the subject project. Specifically, Chevron proposes to replace portions of a product pipeline between the Tosco Refinery and the Vine Hill station, in the City of Martinez, Contra Costa County.

Your staff has determined that the proposed project qualifies for authorization under a Department of the Army nationwide permit {33 CFR 330 Appendix A, B, (12), utility line backfill and bedding, pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1844).

The project sponsors have applied for a Clean Water Act Section 401 water quality certification that the proposed project will not violate State water quality standards. Pursuant to Regional Board Resolution No. 87-053, Waste Discharge Requirements are waived as required by 33 CFR 325.2(b) (ii) provided the discharge of fill to waters of the United States is minimized.

We anticipate no further action on this application. However, should new information come to our attention that indicates a water quality problem with this project, the Regional Board may issue Waste Discharge Requirements.

Sincerely,

STEVEN R. RITCHIE
Executive Officercc: Nadell Gayou, DWR
Oscar Balaguer, SWRCBMr. D.R. Ashurst, Project Manager
Western Business Unit
Chevron Pipeline Company
5080 California Ave., Suite 400
Bakersfield, CA 93309-1671

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ATTACHMENT 4

AIR QUALITY ASSUMPTIONS/CALCULATION DATA SHEETS

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ATTACHMENT (4): AIR QUALITY SUPPORT DATA

Estimation of Fugitive Particulate Matter Emissions Associated with Construction-related Soil Disturbance

(1) - Assumptions:

Average Daily Acres of Construction 2.0

(2) - Emission Factor*

Emission Factor (Unmitigated) 1.2 Tons/Acre/Month

Emission Factor (Mitigated) 0.6 Tons/Acre/Month

Emission Factor (Unmitigated) 109.1 Pounds/Acre/Day

Emission Factor (Mitigated) 54.5 Pounds/Acre/Day

(3) - Total Daily Emissions

Emissions (Unmitigated) 218.2 Pounds/Day

Emissions (Mitigated) 109.1 Pounds/Day

* = Emission factors based on Bay Area Air Quality Management District's Air Quality and Urban Development: Guidelines for Assessing Impacts of Projects and Plans (November 1985).

ATTACHMENT (4) AIR QUALITY ANALYSIS SUPPORT DATA (continued)

Total Construction Operations Emissions Summary

Source		Pollutant Type				
		CO	ROC	NO _x	SO _x	PM ₁₀
1)	Construction-related Soil Disturbance Emissions	N/A	N/A	N/A	N/A	109.1*
2)	Construction equipment Exhaust Emissions	59.5	8.5	135.8	16.2	10.9*
3)	Total Emissions	59.5	8.5	135.8	16.2	120.0
4)	BAAQMD's Significant Thresholds	550	150	150	150	150
5)	Significant Impact	NO	NO	NO	NO	NO

* = Based on emissions after implementation of the appropriate mitigation measures.

ATTACHMENT (4): AIR QUALITY ANALYSIS SUPPORT DATA (continued)

Estimation of Criteria Pollutant Emissions Associated with the Construction Equipment & Exhaust

(1)	Equipment Type	Trucks	Dozer	Tractor	Miscellaneous
(2)	Hours of Operation	893	360	40	1374
(3)	Emission Factors*				
	CO	1.80	N/A	3.58	0.68
	ROC	0.19	N/A	0.18	0.15
	NOx	4.17	N/A	1.27	1.70
	SOx	0.45	0.35	0.09	0.14
	PM10	0.26	0.17	0.14	0.14
(4)	Emissions				
	CO	1607.40	N/A	143.20	927.45
	ROC	169.67	N/A	7.20	206.10
	NOx	3723.81	N/A	50.80	2335.80
	SOx	401.85	126.00	3.60	196.48
	PM10	232.18	59.40	5.60	192.36
(5)	Total Construction Exhaust Emissions	Total Emissions for Duration			Daily Emissions**
	CO	2678.05			59.51
	ROC	382.97			8.51
	NOx	6110.41			135.79
	SOx	727.932			16.18
	PM10	489.54			10.88

* Emission factors based on EPA's AP-42 document, Volume 2 (4th Ed.).

** = Daily emissions are based on a 9-week construction period (45 days).

ATTACHMENT 5

ACM REMOVAL AND HANDLING PROCEDURES FLOWCHART

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**5.5.10 PROCEDURES FOR SMALL SCALE MANUAL REMOVAL AND DISPOSAL
OF PIPE AND COATING MATERIALS THAT CONTAIN ASBESTOS
(ACM = Asbestos Containing Material)**

Complete AQMD/APCD notification form and retain in file. Do Not submit to APCD/AQMD.

CPL employees can perform ACM job if objective data from previous removal jobs are below acceptable exposure levels.

DO NOT USE POWER TOOLS!!
all work to be done with hand tools, chisels, etc.

Establish work areas with caution tape prior to any disturbance or removal of ACM.

All workers to wear safety glasses with side shields or goggles in work area.

Respiratory protection; half mask air-purifying negative pressure respirator with HEPA filters is optional based on air monitoring results below the action level and/or excursion level on other similar work conditions.

Once in work area workers are not to leave wearing contaminated clothing. Clothing to be removed in a change area or cleaned using HEPA filtered vacuum prior to leaving work area.

Trench surface, including floor & sides, are lined with 6 mil. polyethylene to collect and contain ACM.

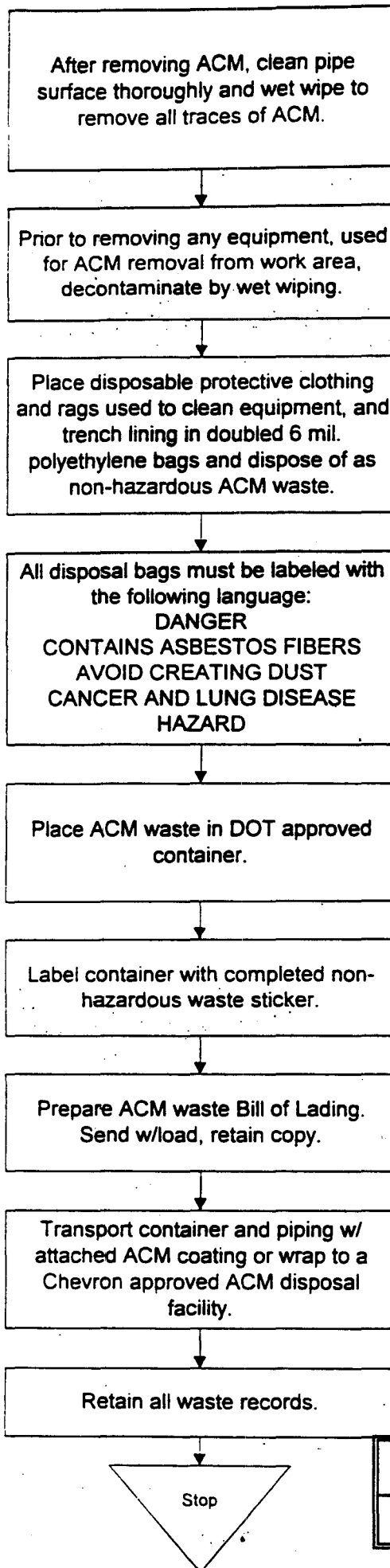
ACM must be kept wet (with water) at all times during removal operation. As one worker removes or cuts ACM, another worker sprays a fine mist of water on the ACM. (wetting agents can be purchased)

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ATTACHMENT 6

LAND OWNER COORDINATION REPORT

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TRPP Landowner Coordination Report

The following record of discussions was prepared by Don Shelhart on behalf of Chevron and updated on August 10, 1995. The following is the current status of property owner contacts for the Avon to Vinehill pipeline project.

1. APN 161-240-13 (parking lot)
Sites: 4030 Pacheco Blvd, Martinez
Owner: Caroline R. Blair
2050 Franklin Canyon Road
Martinez, CA 94553
Bus: 229-3572, pager 295-8241

On 7/21/95 I talked to Caroline Blair who referred me to her husband. On 8/2/95 I talked to Butch Blair, owner of Butch's Excavating. Said not to contaminate the gravel with dirt, to load the spoils into a truck and if more gravel is needed, to use 3/4" ab gravel from Syar so it will match. Said that it is okay to move the beams to the left of the Shell gate, if they are replaced as they were found.

Tenant: Reliable Liquid Transport, Inc: On 7/13/95 I met with Richard Fuller (229-9180), president. Said they rent most of the parking lot and need access 24 hours a day seven days a week because of the nature of their business. Said he will lose several parking spots because of the construction but did not ask for compensation.

2. APN 161-240-10
Situs: 4040 and 4036 Pacheco Blvd, Martinez
Owner: Arthur W. and Janice A Foster
412 Ponderosa Ct
Lafayette, CA 94549
Res: 932-7634 Bus: 228-3380

On 7/13/95 I met with Art Foster who owns both buildings on this property and the business (Martinez Sheet Metal) in the south building. Mr. Foster remembers the relocation in 1982 and said that he is going to be more particular this time. Said he was not happy with the subsequent settlement and patch job to the pavement. He said in '82 there was an early rain and there was a lot of mud. He said doing the work on the weekend, the way we did it before, will be good. Said the property is locked on the weekends and we will need to pick up a key from either him or his son, Glen. Said he wants 3-4 days notice and not to come by on a Friday and start work the next day.

Tenant: Mother's Cookies: On 7/18/95 I talked to Berry Nelson (800/767-0537), District Manager. Said no problem to give him a call if we need anything moved in the parking area.

Tenant: Emminger Corp: On 7/13/95 I met with Bill Clark (313-5830), General Manager. Said he needs to be notified when construction will begin because many times they make deliveries on the weekends.

3. APN 161-250-10
Owner: AT&SF Railway Company
920 S.E. Quincy Street
Topeka, Kansas 66612-1116

On 7/17/95 I talked to Clark Ransdell (913/435-2228) in Topeka. Said that by using the existing casing to replace the 10" BAPL at their MP 1167.4 (our station 1088+88), we do not need a new license because this is considered maintenance under our current license. The access road on the south side of the tracks which goes east from this location, is on the railroad property and is okay to use during construction. However, the new line on their property south of Pacheco Blvd will require a new license (application mailed 7/21/95). We also cross a spur track to the west of the Walnut Creek Flood Control Channel which will require a license (application mailed 8/7/95). Their local field rep, Daryl Swallow at 209-441-2552, in Fresno, will need to be contacted before work begins at all three locations.

4. Pacheco Blvd Crossing

On 8/8/95 the county issued their Encroachment Permit #10234. Arrangement for inspection must be made 48 hours before the begin of work. Call inspector Miner Ashcraft at 313-2320, or cellular 612-2802.

5. APN 380-042-02
Situs: 4507 Pacheco Blvd, Martinez
Owner: Laidelaw Environmental Services Co.
4501 Pacheco Blvd.
Martinez, CA 94553

On 7/13/95 I met with Joe Davi (372-4800 ext. 808), Facility Manager. The property is being regraded and bermed starting in August. Initially it appeared their berm would cover the lines, but after potholing, the berms only cross the lines in two locations. The lines are inside the fence in their parking area. Contact Vonda L. Derryberry (372-4816) Construction Manager, to coordinate entry. (It might be best to have them not pave the area of their parking lot where we will be working.)

6. APN 380-042-03
Situs: 4575 Pacheco Blvd, Martinez
Owner: Lippow Development Co.
838 Escobar
Martinez, CA 94553
Bus: 757-7882

On 7/19/95 I talked to Mr. Lippow. He is in the process of leasing his building and will notify his new tenant

7. APN 380-042-09
Situs: 4579 Pacheco Blvd, Martinez
Owner: Siro and Anne V. Sabatini
4530 Grothman Ln
Martinez, CA 94553

On 7/21/95 I talked to Mr. Sabatini (228-1162). He said he sees no problem as long as the pavement in the parking area is repaired and we work with his tenant. He remembered when we came through in 1982 and said we did a good job.

Tenant: A1 Adjustments Company: On 7/13/95 I met with Kathy (229-5800) who said they are a vehicle repro company which needs access through the gate to the rear 24 hours a day.

8. APN 380-26-01
Situs: 4585 Pacheco Blvd, Martinez
Owner: Pacheco Properties
605 Minor Road
Orinda, CA 94563

On 7/26/95 I talked to Mr. Ray Bickerstaff (254-4694 or 254-8786), the owner. He has no problems with our work as long as his tenants are taken care of. Said in restoring the landscaping in front of 4585 Pacheco Blvd, if we needed a contractor we could call Dave Burnly with Contra Costa Landscaping at 229-1060. Was not concerned with the possible pine tree removal on 380-260-003, said it was probably a volunteer anyway.

Tenant: IT International Technology Corporation: On 7/13/95 I met with Russell D. Bricker (372-9100), Facilities and Technical Support Manager. Said he trusts Chevron to repair the damage to the landscaping and that he remembers in 1982 there was no trouble.

9. APN 380-260-002
Situs: 4595 Pacheco Blvd
Owner: Pacheco Properties, see #7

Tenant: Independent Scissor Lifts, Inc: On 7/25/95 I met with the warehouse manager (229-1701), who's main concern was for the security of the property during construction (he also asked that a letter be sent the president, John Harrington). It appears that fencing will need to be removed by the road in the front and in the back on the south side of the property.

10. APN 380-260-003 (possible tree removal on this property)
Situs: 4589 & 4591 Pacheco Blvd
Owner: Pacheco Properties, see #7

Tenant: Graybar Electric Company: On 7/25/95 I met with Eugene Fassiotto (228-5110). His concern was with the parking. He said on Wednesday September 25th, they will have their Annual Open House and they would appreciate it if we did not have construction vehicles and equipment in the parking area on that day.

Tenant: De Longhi: On 7/23/95 I met with Dan Mosby (228-9960), the warehouse manager. He said he sees no problem and the gate will be open from 6 to 6 five days a week and from 9 to 12 on Saturday.

11 Caltrans, Highway 680 Crossing
No new permit is require for our work under 680. The existing Consent to Common Use Agreement with Caltrans only requires notification. Notification letter mailed on 8/2/95.

12. APN 380-043-03
APN 380-030-08
Owner: ACME Fill Corp
950 Waterbird Way
Martinez, CA 94553

On 7/19/95 I meet with Michael Reed (228-0625), Director of Operations. No problem with our work or moving the block valves out of the wetland area. As long as we stay within the existing easement, it's okay to put a protective fence around the above ground valve in the new location (PG&E has also approved the new location for the valve which will be within their tower line easement).

13. Contra Costa Canal property
Owner: Contra Costa Water District
2300 Stanwell Drive
Concord, CA 94524

On 7/11/95 I talked with Tony Rocha (674-8076). Tony will review our easement grant and construction drawings before he gives the okay to go ahead. He said most likely another encroachment permit will not be necessary because we are at the same location as our permit #796400-3, which was issued on 7/7/95.

14. APN 159-140-50
Owner: Central Contra Costa County Sanitary District
5019 Imhoff Place
Martinez, CA 94553-4392

On 7/11/95 I mailed our notification letter to Ken F. Lavery (229-7307). On 8/3/95 I talked with Ken, he said the timing is okay but that their engineers want us to be aware of their underground facilities in the area. There is a 72" outfall pressure line, 42" reclaimed water pressure line, two 20" M-2 incoming sewer pressure lines, and numerous other smaller lines some of which are plastic. These lines are at various depths and our lines run between some of them. Ken said the District will survey and stake out the approximate location of their lines to assist Chevron. A preconstruction meeting at the site can be arranged by calling Ken at the above number. Ken also said that there was a pressure landfill gas line in the road to the west of their lines (this could be where we cross AT&SF) and that Air Products should be contacted at 562-9248.

15. Solano Way Crossing (pavement 26', R/W 40')

On 8/3/95 the county issued their Encroachment Permit #10232. No cutting of pavement and arrangement for inspection must be made 48 hours before the begin of work. Call inspector Miner Ashcraft at 313-2320, or cellular 612-2802.

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16. SPRR
One Market Street
San Francisco, CA 94105

On 8/4/95 Joe Ivanucich (916/789-5165), an engineer in Roseville, said that because we are using the existing casing, we are doing work under an existing agreement and to contact their local field rep, Don Thomas in Martinez, at 891-7466, or pager 308-1840.

LANDOWNER COORDINATION PLANS,
CHEVRON'S RESPONSE TO ISSUES:

1. Owner: Chevron will comply with the requirements described by Mr. Blair.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to Reliable Liquid Transport. Some parking spots will be temporarily unusable during construction.
2. Owner: Chevron will cooperate with Mr. Foster's scheduling requirements i.e., perform the work on weekends. Settlement will be minimized by achieving 90% compaction of the backfill under the paved area. Settlement or other problems that appear after construction activities will be repaired by Chevron.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to Mother's Cookies.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to Emminger Corp.
3. Owner: Chevron will contact local field representative for AT&SF prior to beginning work. Anticipating new license for spur track crossing.
4. Owner: Encroachment permit received from Contra Costa County. Chevron will coordinate work with inspector, Mr. Ashcraft.
5. Owner: Further meetings between Chevron and Laidlaw have resulted in agreement regarding the berm and construction conflicts. Chevron and Laidlaw will continue to cooperate to work out details.
6. Owner: No conflicts noted at this time.
7. Owner: Chevron will replace any damaged pavement as needed.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to A1 Adjustments.
8. Owner: Chevron will replace any damaged landscaping and work with the tenants.
Tenant: Chevron will replace any damaged landscaping at IT International Technology Corporation.

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9. Owner: Same owner as No. 7. No other specific issues.
Tenant: Chevron will cooperate to maintain security. Letter will be sent to Mr. Harrington.
10. Owner: Same owner as No. 7. No other specific issues.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to Graybar. No construction will be scheduled in this area on Sept. 25.
Tenant: Chevron will cooperate in scheduling to minimize the impacts to De Longhi.
11. Owner: Notification made to Cal Trans.
12. Owner: Chevron is working cooperatively with ACME. No other specific issues.
13. Owner: Chevron agrees that existing encroachment agreement should apply, but will obtain or ammend encroachment permit if required.
14. Owner: Chevron will work with Sanitary District to locate any sub-surface facilities. No other specific issues.
15. Owner: Chevron will comply with requirements from CCC encroachment permit.
16. Owner: Chevron agrees that existing license should apply. Chevron will coordinate work with local field representative, Mr. Thomas.

EXHIBIT "D"
MONITORING PROGRAM
FOR THE CHEVRON AVON TO VINE HILL PIPELINE

Impact: The proposed project may have the possibility of an upset or petroleum product spill, either from a puncture of an active pipeline or from construction equipment.

Project Modification:

Chevron has prepared an Oil Spill Contingency Plan in compliance with the Oil Pollution Act of 1990 (OPA). This plan includes notification procedures, response strategies, organization of response teams and the listing of available equipment.

Monitoring:

Staff of the State Lands Commission, or its designated representative, will inspect the project during the construction period to determine that all equipment specified in the Oil Spill Contingency Plan is available on the site.

Impact: Increased erosion is possible during the actual construction period.

Project Modification:

The construction is authorized under Nationwide Permit No. 12, US Army Corps of Engineers, pursuant to Section 404 of the Clean Water Act. Under this permit, Chevron must conduct all construction activities in compliance with the General Conditions of the permit, including stabilization of exposed soils, use of appropriate erosion and siltation controls, and placement of equipment on mats in wetlands areas.

Monitoring:

Staff of the State Lands Commission, or its designated representative, will be present during the crossing of Pacheco Slough to determine that all required erosion control procedures are in place.

Impact: Construction across Pacheco Slough could impact aquatic life if it is done when the Slough contains water.

Project Modification:

In accordance with the Department of Fish and Game's Stream Bed Alteration Agreement with Chevron, the crossing of Pacheco Slough will take place prior to October 15th.

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Monitoring:

Chevron will notify the staff of the State Lands Commission at least 24 hours prior to constructing the crossing of Pacheco Slough, so that it can be determined that this construction window is observed.

Impact: Construction activities could increase air emissions of particulate matter.

Project Modification:

Daily watering of construction sites will be required to reduce dust emissions.

Monitoring:

Staff of the State Lands Commission, or its designated representative, will inspect the site to verify that this dust control measure is implemented.

Impact: Construction equipment could damage Pacheco Boulevard or Solano Way in the vicinity of the project.

Project Modification:

Chevron will include "before and after" video documentation of the condition of Pacheco Boulevard and Solano Way in the vicinity of the project. If any significant change is evidenced by the videos, Chevron will enter into an agreement with the Contra Costa County Public Works Department to provide for the restoration of the roads to their pre-project conditions.

Monitoring:

Staff of the Contra Costa Public Works Department will view the videos upon completion of the project.

Impact: The proposed project would effect traffic in the vicinity of Pacheco Boulevard and Solano Way during the construction phase.

Project Modification:

Chevron and its contractor will finalize and get approval from the Contra Costa County Planning Department of a detailed traffic plan prior to the onset of construction at these locations.

Monitoring:

The Contra Costa County Planning Department will approve the above plan prior to construction. Staff of the State Lands Commission, or its designated representatives, will confirm that the plan, as approved, is being followed during construction.

Impact: Due to the highly industrialized nature of the project

corridor, the potential exists

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for contaminated soils to be encountered during excavation.

Project Modification:

Spoils shall be monitored for the presence of Benzene, total hydrocarbons, heavy metals and volatile organic compounds. In the event contaminated soils are encountered, work will be stopped and Chevron's worker protection program will be implemented based on the level and type of contaminant discovered. Results of the monitoring program will be maintained at Chevron for one year, and may be forwarded to the Department of Toxic Substances Control if any contaminants are discovered.

Monitoring:

Staff of the State Lands Commission, or its designated representatives, will randomly check at least two of the spoils analyses, and will ensure that proper protective equipment is available for the construction workers.

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