

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete 3 and 4.  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address.      2.  Restricted Delivery (Extra charge)

3. Article Addressed to: W.E. Herchline Union Oil Co. of Calif. P.O. Box 4147 Atlanta, GA 30302 B2	4. Article Number P 256 395 197
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery OCT 1989	

PS Form 3811, Apr. 1989

\*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN R'

P 256 395 197

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

\*U.S.G.P.O. 1989-234-555

Sent to W.E. Herchline	
Street and No. Union Oil Co. of Calif.	
P.O. Box and ZIP Code P.O. Box 4147	
Postage Atlanta	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 10-12-90 AC 29-181079	

PS Form 3800, June 1985



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. W. E. Herchline  
Division Distribution Manager  
Union Oil Company of California  
Unocal Corporation  
Post Office Box 4147  
Atlanta, GA 30302

October 11, 1990

Enclosed is Construction Permit No. AC 29-181079 for the existing Tank No. 7 at Unocal Corporation's Tampa, Florida terminal. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copy furnished to:

B. Thomas, SW District  
J. Campbell, EPCHC  
E. Mauel, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of buisness on 10-12-90.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Lyndy Daben  
Clerk

10-12-90  
Date

Final Determination

Union Oil Company of California  
Unocal Corporation  
Tampa, Florida  
Hillsborough County

Storage Tank No. 7  
Permit Number: AC 29-181079

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

October 9, 1990

## Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct the existing No. 7 gasoline storage tank at Unocal Corporation's terminal in Tampa, Hillsborough County, Florida, was distributed on June 22, 1990. The Notice of Intent to Issue was published in the Tampa Tribune on September 6, 1990. Copies of the evaluation were available for public inspection at the Department's offices in Tampa and Tallahassee.

In a letter dated June 27, 1990, the applicant requested that Specific Condition No. 1, which restricted Tank No. 7 to gasoline service only, be amended to allow it to handle other distillate fuels. Because of the lower vapor pressure of distillate fuels, the volatile organic compounds emissions from this tank will be less than when the tank is handling gasoline. Therefore, this request is approved.

The final action of the Department will be to issue Construction Permit No. AC 29-181079 as proposed in the Technical Evaluation and Preliminary Determination.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

Union Oil Company of California  
Unocal Corporation  
P. O. Box 4147

Permit Number: AC 181079

Expiration Date: Jan. 1, 1991

County: Hillsborough

Latitude/Longitude: 27°55'15"N  
82°26'35"W

Project: Tank No. 7  
Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the January, 1982, installation of a PETREX internal floating roof system with a single vapor seal in the existing tank No. 7. This system complies with 40 CFR 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. Tank No. 7 is used to store gasoline and distillate fuels.

Tank No. 7 is located in Unocal Corporation's bulk petroleum storage terminal (SIC 5171) that is at 1523 Port Avenue, Tampa, Hillsborough County, Florida. The UTM coordinates of this facility are Zone 17, 358.0 km E and 3089.1 km N.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application.
2. Unocal letter dated June 27, 1990.

PERMITTEE: Union Oil Company of California Permit Number: AC 29-181079  
Expiration Date: January 1, 1991

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:

Union Oil Company of California

Permit Number: AC 29-181079

Expiration Date: January 1, 1991

**GENERAL CONDITIONS:**

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.



PERMITTEE: Union Oil Company of California Permit Number: AC 29-181079  
Expiration Date: January 1, 1991

**GENERAL CONDITIONS:**

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes Compliance with New Source Performance Standards (NSPS).

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

PERMITTEE:

Union Oil Company of California

Permit Number: AC 29-181079

Expiration Date: January 1, 1991

**GENERAL CONDITIONS:**

- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS:**

1. Tank No. 7 is restricted to gasoline and distillate fuel with a vapor pressure less than 7.25 psi service only. The permittee shall notify the Environmental Protection Commission of Hillsborough County prior to handling more than 106.1 million gallons per year of fuel in this tank.

2. The tank No. 7 shall comply with all the applicable requirements of 40 CFR 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, including parts 40 CFR 60.113a and 40 CFR 60.115a.

PERMITTEE:

Union Oil Company of California

Permit Number: AC 29-181079

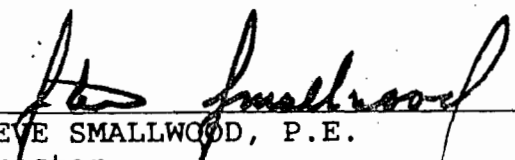
Expiration Date: January 1, 1991

**SPECIFIC CONDITIONS:**

3. The storage tank may be in service continuously, 8,760 hrs/yr.
4. The VOC emissions from tank No. 7 shall not exceed 15.3 TPY. The permittee shall calculate the actual VOC emissions annually by the procedures described in AP-42, Compilation of Air Pollutant Emission Factors, Section 4.3-Storage of Organic Liquids, using actual production, construction, and meteorological data and submit this information to the Environmental Protection Commission of Hillsborough County with the annual operation report for the facility.
5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
6. An application for an operation permit must be submitted to the Environmental Protection Commission of Hillsborough County office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this 11<sup>th</sup> day  
of October, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Steve Smallwood  
FROM: Clair Fancy *CF*  
DATE: October 9, 1990  
SUBJ: Approval of Construction Permit No. AC 29-181079  
Unocal Corporation

Attached for your approval and signature is a permit prepared by the Bureau of Air Regulation for the above mentioned company to construct Storage Tank No. 7 at the Unocal Terminal in Tampa, Hillsborough County, Florida. The purpose of the permit is to correct the Department's files for this existing source.

Comments on the evaluation were submitted by the applicant which resulted in minor changes to the permit.

Day 90, after which this permit will be issued by default, is December 3, 1990.

I recommend your approval and signature.

CF/WH/plm

Attachments

Check Sheet

Company Name: UNOCAL TONGVA Terminals  
Permit Number: AC279-18/079  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- |  |                          |
|--|--------------------------|
| <input checked="" type="checkbox"/> Initial Application    | Cross References:        |
| <input checked="" type="checkbox"/> Incompleteness Letters | <input type="checkbox"/> |
| <input type="checkbox"/> Responses                         | <input type="checkbox"/> |
| <input type="checkbox"/> Waiver of Department Action       | <input type="checkbox"/> |
| <input type="checkbox"/> Department Response               |                          |
| <input type="checkbox"/> Other                             |                          |

**Intent:**

- Intent to Issue
  - Notice of Intent to Issue
  - Technical Evaluation
  - BACT or LAER Determination
  - Unsigned Permit
- Correspondence with:
- EPA
  - Park Services
  - Other
- Proof of Publication
    - Petitions - (Related to extensions, hearings, etc.)
    - Waiver of Department Action
    - Other

**Final**

**Determination:**

- Final Determination
- Signed Permit
- BACT or LAER Determination
- Other

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other

Unocal Refining & Marketing Division  
Unocal Corporation  
13 Corporate Square Northeast, P.O. Box 4147  
Atlanta, Georgia 30302  
Telephone (404) 321-7600



RECEIVED

NOV 29 1990

November 26, 1990

DER - BAQM

Bureau of Air Regulation  
Florida Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Attention: Mr. Willard Hanks

**CERTIFICATE OF COMPLETION**

Unocal Tampa Terminal  
Storage Tank No. 7  
Construction Permit No. AC 29-181079

Dear Mr. Hanks:

Attached is a sealed original and copy of the certificate of completion for modification of Storage Tank No. 7 at Unocal's Tampa, Florida, distribution terminal. Please advise me of any fees that are due to complete this submittal.

Two copies of this certificate have also been forwarded to Hillsborough County EPC. If you have any questions, please do not hesitate to call me at (404) 320-2272.

Very truly yours,

David R. Keasey  
Manager, Marketing Environmental

DRK/bmc

cc: N. L. Melvin



STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION  
 AIR POLLUTION SOURCES  
 CERTIFICATE OF COMPLETION OF CONSTRUCTION\*

PERMIT NO. AC-29-181079 DATE: October 22, 1990  
 Company Name: IUNOCAL County: Hillsborough  
 Source Identification(s): Storage Tank No. 7

Actual costs of serving pollution control purpose: \$ 103,000  
 Operating Rates: 106,100,000 gal/yr Design Capacity: N/A  
 Expected Normal N/A During Compliance Test N/A  
 Date of Compliance Test: N/A (Attach detailed test report)

Test Results:	Pollutant	Actual Discharge	Allowed Discharge
	<u>N/A</u>		

Date plant placed in operation: March, 1982

This is to certify that, with the exception of deviations noted\*\*, the construction of the project has been completed in accordance with the application to construct and Construction Permit No. AC-29-181079 dated 10-9-90.

A. Applicant:  
W. E. Herchline *W E Herchline* Div. Distribution Manager  
Name of Person Signing (Type) Signature of Owner or Authorized Representative and Title

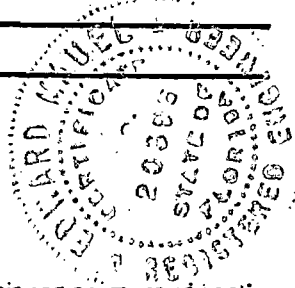
Date: 10-22-90 Telephone: 404/320-2260

B. Professional Engineer:  
EDWARD MAUEL *Edward Mauerl*  
Name of Person Signing (Type) Signature of Professional Engineer

Company Name Florida Registration No. 20396  
 Date: 10-26-90

2301 WESTWOOD LANE PALATINE, IL 60067  
Mailing Address  
(708) 397-1224  
Telephone Number

(Seal)



This form, satisfactorily completed, submitted in conjunction with an existing application to construct permit and payment of application processing fee will be accepted in lieu of an application to operate.

\*\*As built, if not built as indicated include process flow sketch, plot plan sketch, and updates of applicable pages of application form.

RECEIVED  
SEP 24 1990

THE TAMPA TRIBUNE

Published Daily  
Tampa, Hillsborough County, Florida

State of Florida  
County of Hillsborough } ss.

DER. BAQM

Before the undersigned authority personally appeared  
R. Putney, who on oath says that he is Accounting Manager of The Tampa  
Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida;  
that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of .....  
UNION OIL CO.

was published in said newspaper in the issues of .....  
September 6, 1990

Affiant further says that the said The Tampa Tribune is a newspaper published at  
Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore  
been continuously published in said Hillsborough County, Florida, each day  
and has been entered as second class mail matter at the post office in Tampa, in said  
Hillsborough County, Florida, for a period of one year next preceding the first publication  
of the attached copy of advertisement; and affiant further says that he has  
neither paid nor promised any person, firm, or corporation any discount, rebate, commission  
or refund for the purpose of securing this advertisement for publication in the  
said newspaper.

NOTARY PUBLIC  
STATE OF FLORIDA

Sworn to and subscribed before me, this 6 day  
of 30 September, A.D. 1990

(SEAL)

R. Putney  
Rebecca Anne Bouchard

Notary Public, State of Florida  
My Commission Expires Jan. 6, 1993  
Bonded Thru Troy Fain - Insurance Inc.

State of Florida  
Department of Environmental  
Regulation  
Notice of Intent to Issue  
The Department of Environmental  
Regulation hereby  
gives notice of its intent to  
issue a permit to Union Oil  
Company of California, P.O.  
Box 4147, Atlanta, Georgia  
30302 to construct the No. 7  
gasoline storage tank at the  
Unocal terminal located at  
1523 Port Avenue, Tampa,  
Hillsborough County, Florida.  
The permit is required to update  
the Department's records to show tank modification  
made in 1982. The VOC  
emissions from this tank are  
estimated to be 15.3 TPY.  
These emissions will not

Con't. From Preceding Column

cause a violation of any  
ambient air quality standard  
or interfere with reasonable further  
progress toward attainment  
of the ozone ambient air  
quality standard. A determination  
of Best Available Control  
Technology (BACT) was not  
required. The Department is  
issuing this intent to issue for  
the reasons stated in the Technical  
Evaluation and Preliminary  
Determination.

A person whose substantial  
interests are affected by the  
Department's proposed permitting  
decision may petition for an  
administrative proceeding (hearing)  
in accordance with Section 120.57,  
Florida Statutes. The petition must  
contain the information set forth  
below and must be filed (received)  
in the Office of General Counsel of  
the Department at 2600 Blair Stone  
Road, Tallahassee, Florida 32399-  
2400, within fourteen (14) days  
of publication of this notice.  
Petitioner shall mail a copy of the  
petition to the applicant at the  
address indicated above at the time  
of filing. Failure to file a petition  
within this time period shall constitute  
a waiver of any right such person  
may have to request an administrative  
determination (hearing) under  
Section 120.57, Florida Statutes.

The petition shall contain  
the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of

the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action.

(d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Department of Environmental Regulation  
Southwest District  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347  
Hillsborough County  
Environmental Protection Commission  
1410 North 21st Street  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

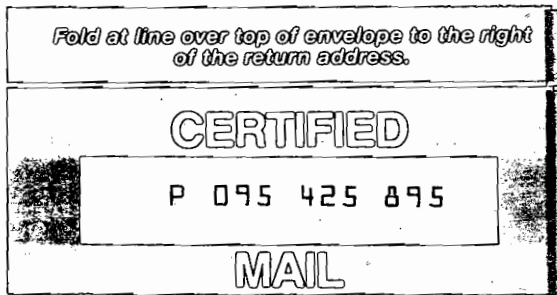


Unocal Refining & Marketing Division  
Unocal Corporation  
P.O. Box 4147  
Atlanta, Georgia 30302-4147

**UNOCAL** 



Florida Dept. of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400



Attn: Patty Adams



EDNUSA

**Unocal Refining & Marketing Division**  
Unocal Corporation  
1523 Port Avenue, P.O. Box 1046  
Tampa, Florida 33601

**UNOCAL** 

Fold at line over top of envelope to the right of the return address.

**CERTIFIED**

P 859 509 783

**MAIL**

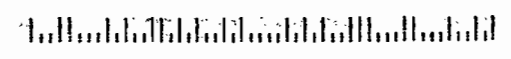
TAMPA FL 33601  
SEP 18 1990  
U.S. POSTAGE  
2.00  
P.B. METER  
3310623

Bureau of Air Regulation  
Florida Dept., of Environmental Reg.  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RETURN RECEIPT  
REQUESTED**

Attention: Mr. Willard Hanks

*Called David  
Keasy's office  
9-18-90 - sending  
proof of publica-  
tion*





June 27, 1990

Bureau of Air Regulation  
Florida Department of Environmental Management  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Attention: Mr. Barry Andrews

**PROPOSED PERMIT TO CONSTRUCT**

Tank No. 7  
Unocal Tampa Terminal  
1523 Port Avenue  
Tampa, Florida

Dear Mr. Andrews:

I am writing in response to the proposed construction permit for the subject facility. Unocal's comments regarding the permit are as follows:

- ◆ **SPECIFIC CONDITION NO. 1** restricts the tank to gasoline service only. Unocal requests that storage of distillate fuels (*i.e.* diesel, kerosene, *et cetera*) not be prohibited in this tank. The construction of the tank and seals exceeds federal NSPS requirements for these materials, and their storage in the tank would not result in emissions in exceedance of permitted levels. While Unocal has no plans at the present to store these other fuels in the subject tank, we wish to have the flexibility to do so at a future date.

If you have any questions, please do not hesitate to call me at (404) 320-2272.

Very truly yours,

David R. Keasey  
Manager  
Marketing Environmental

cc: W. E. Herchline  
N. L. Melvin

*H. K. ...*  
*E. Thomas, see Dist.*  
*J. Campbell, EPCAC*  
*CHF/3A*

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

3. Article Addressed to: W.E. Hercheime Div. Distribution mgr. Union Oil Co. of Calif. Unocal Corp. P.O. Box 4147 Atlanta, GA 30302	4. Article Number P 256 396 104
5. Signature - Address X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery JUN 25 1990	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 256 396 104

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

U.S.G.P.O. 1989-234-555

Sent To	WE Hercheime
Street and No.	Union Oil of Calif.
P.O., State and Zip Code	PO BOX 4147
Postage	Atlanta GA
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	.6-22-90 AC 29-181079

PS Form 3800, June 1985



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

June 20, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. W. E. Herchline  
Division Distribution Manager  
Union Oil Company of California  
Unocal Corporation  
Post Office Box 4147  
Atlanta, GA 30302

Dear Mr. Herchline:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct, for petroleum product storage tank No. 7 at the Unocal Tampa Terminal.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Barry Andrews of the Bureau of Air Regulation.

Sincerely,

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/WH/plm

Attachments

c: B. Thomas, SW District  
J. Cambell, EPCHC  
E. Mael, P.E.

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Union Oil Company of California  
Unocal Corporation  
P. O. Box 4147  
Atlanta, GA 30302

DER File No. AC 29-181079

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Union Oil Company of California, applied on May 21, 1990, to the Department of Environmental Regulation for a permit to construct, for the existing petroleum product storage tank No. 7 at the Unocal Tampa Terminal. This terminal is located at 1523 Port Avenue, Tampa, Hillsborough County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



---

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copies furnished to:

B. Thomas, SW District  
J. Cambell, EPCHC  
E. Mael, P.E.



CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 6-22-90.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Keno Deben  
Clerk

6-22-90  
Date

State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Union Oil Company of California, P.O. Box 4147, Atlanta, Georgia 30302 to construct the No. 7 gasoline storage tank at the Unocal terminal located at 1523 Port Avenue, Tampa, Hillsborough County, Florida. The permit is required to update the Department's records to show tank modification made in 1982. The VOC emissions from this tank are estimated to be 15.3 TPY. These emissions will not cause a violation of any ambient air quality standard or interfere with reasonable further progress toward attainment of the ozone ambient air quality standard. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Department of Environmental Regulation  
Southwest District  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

Hillsborough County Environmental Protection Commission  
1410 North 21st Street  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation  
and  
Preliminary Determination

Union Oil Company of California  
Unocal Corporation  
Tampa, Florida  
Hillsborough County

Storage Tank No. 7  
Permit Number: AC 29-181079

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

June 20, 1990

## I. General Information

### A. Applicant

Union Oil Company of California  
Unocal Corporation  
P. O. Box 4147  
Atlanta, Georgia 30302

### B. Project

Mr. David R. Keasey, Manager of Marketing Environmental for Union Oil Company of California, submitted an application for a permit to construct, for the existing gasoline storage tank No. 7 at the Unocal Terminal (SIC 5171) on May 21, 1990. This terminal is located at 1523 Port Avenue, Tampa, Hillsborough County, Florida. The UTM coordinates of this site are Zone 17, 358.0 km E and 3089.1 km N.

The purpose of the application is to correct the Department's records for a January, 1982, modification to tank No. 7. The modification consisted of the installation of a PETREX internal floating roof with a single vapor seal and using the tank to handle gasoline.

The application was considered complete on receipt by the Department on May 21, 1990.

### C. Emissions

Tank No. 7 is a source of VOC emissions. The applicant installed a PETREX internal floating roof system with a single seal to control the gasoline vapors in January, 1982. Based on an annual throughput of 106,095,387 gallons of gasoline, the VOC emissions are estimated to be 15.3 TPY by the procedures given in AP-42, Compilation of Air Pollutant Emission Factors, Section 4.3 - Storage of Organic Liquids (September, 1985). These emissions may vary slightly depending on actual gasoline throughput and weather.

## II. Rule Applicability

The proposed project, permitting of an existing petroleum product storage tank, is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, F.A.C.

The source is in an area designated nonattainment for ozone and particulate matter (17-2.410), unclassifiable for sulfur dioxide (17-2.430), and attainment for the other criteria pollutants (17-2.420).

The terminal is a major facility because the allowable VOC emissions exceed 100 TPY. The project will not cause a significant emissions rate increase as defined in Table 500-2. Therefore, the project is not subject to new source review for nonattainment areas (17-2.510).

As the project resulted in an increase in VOC emissions in January, 1982, the source is subject to Standards of Performance for New Stationary Sources (17-2.660) in effect at that time. The applicable standards are specified in 40 CFR 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.

### III. Technical Evaluation

The new source performance standards, 40 CFR 60, Subpart Ka, that regulate this source specify equipment design standards. The applicant is using a PETREX internal floating roof system with a single vapor seal that complies with these standards. Using the tank parameters and assuming the throughput for the tank will be 106,095,387 gallons of gasoline per year, the annual emissions are estimated to be 15.3 TPY VOC. Prior to receiving a permit to operate the modified tank, the applicant will have to comply with the testing requirement described in 40 CFR 60.113a and the reporting and recordkeeping requirements described in 40 CFR 60.115a to confirm the tank meets the new source performance standards. The Department will also require the applicant to estimate the emissions from the tank annually by the procedures in AP-42 using actual gasoline throughput.

### IV. Air Quality Analysis

It is the judgement of the Department that the estimated emissions from the tank will not interfere with reasonable future progress toward attainment of ambient air quality standards.

### V. Conclusion

Based on the information provided by the Union Oil Company of California, the Department has reasonable assurance that the construction/operation of gasoline storage tank No. 7, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

CAJ  
6/21/90

# DRAFT



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:  
Union Oil Company of California  
Unocal Corporation  
P. O. Box 4147

Permit Number: AC 181079  
Expiration Date: Jan. 1, 1991  
County: Hillsborough  
Latitude/Longitude: 27°55'15"N  
82°26'35"W

Project: Tank No. 7  
Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the January, 1982, installation of a PETREX internal floating roof system with a single vapor seal in the existing tank No. 7. This system complies with 40 CFR 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. Tank No. 7 is used to store gasoline.

Tank No. 7 is located in Unocal Corporation's bulk petroleum storage terminal (SIC 5171) that is at 1523 Port Avenue, Tampa, Hillsborough County, Florida. The UTM coordinates of this facility are Zone 17, 358.0 km E and 3089.1 km N.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application

# DRAFT

PERMITTEE:  
Union Oil Company of California

Permit Number: AC 29-181079  
Expiration Date: January 1, 1991

## GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.



# DRAFT

PERMITTEE: Union Oil Company of California Permit Number: AC 29-181079  
Expiration Date: January 1, 1991

## GENERAL CONDITIONS:

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

# DRAFT

PERMITTEE:

Union Oil Company of California

Permit Number: AC 29-181079

Expiration Date: January 1, 1991

## GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes Compliance with New Source Performance Standards (NSPS).

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

# DRAFT

PERMITTEE:

Union Oil Company of California

Permit Number: AC 29-181079

Expiration Date: January 1, 1991

## GENERAL CONDITIONS:

- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

## SPECIFIC CONDITIONS:

1. Tank No. 7 is restricted to gasoline service only. The permittee shall notify the Environmental Protection Commission of Hillsborough County prior to handling more than 106.1 million gallons per year of gasoline in this tank.
2. The tank No. 7 shall comply with all the applicable requirements of 40 CFR 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, including parts 40 CFR 60.113a and 40 CFR 60.115a.

# DRAFT

PERMITTEE: Union Oil Company of California Permit Number: AC 29-181079  
Expiration Date: January 1, 1991

## SPECIFIC CONDITIONS:

3. The storage tank may be in service continuously, 8,760 hrs/yr.
4. The VOC emissions from tank No. 7 shall not exceed 15.3 TPY. The permittee shall calculate the actual VOC emissions annually by the procedures described in AP-42, Compilation of Air Pollutant Emission Factors, Section 4.3-Storage of Organic Liquids, using actual production, construction, and meteorological data and submit this information to the Environmental Protection Commission of Hillsborough County with the annual operation report for the facility.
5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
6. An application for an operation permit must be submitted to the Environmental Protection Commission of Hillsborough County office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

Unocal Refining & Marketing Division  
Unocal Corporation  
13 Corporate Square Northeast, P.O. Box 4147  
Atlanta, Georgia 30302  
Telephone (404) 321-7600

RECEIVED UNOCAL 76

MAY 21 1990

DER-BAQM

May 18, 1990

Florida Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Attn: Mr. Willard Hanks

APPLICATION FOR CONSTRUCTION PERMIT  
Existing Gasoline Storage Tank No. 7

Unocal Tampa Terminal  
1523 Port Avenue  
Tampa, Florida

Dear Mr. Hanks:

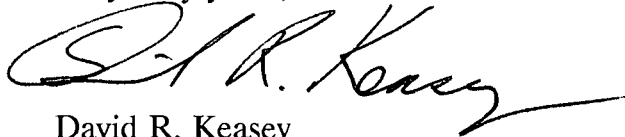
Enclosed are two copies of an application for modification of Storage Tank Number 7 at the Unocal Tampa Terminal. This application is being submitted at this time to correct procedural errors in the permitting process which occurred when the tank was actually modified (January, 1982).

The modification to Tank Number 7 included the installation of an internal floating roof (Petrex system) with a single vapor seal. This modification conformed to federal new source performance standards applicable at the time of modification.

Also enclosed is a check in the amount of \$200.00 to cover permit processing fees.

If you require any additional information, please do not hesitate to call me at (404) 320-2272.

Very truly yours,



David R. Keasey  
Manager  
Marketing Environmental

DRK/bmc

Enclosures

cc: N. L. Melvin  
S. K. Baruch (HCEPC) (w/o enclosures)  
J. McDonald (DER, Tampa) (w/o enclosures)

RECEIVED  
DER - MAIL ROOM  
1990 MAY 22 PM 12:10

AC 29-181079

# UNOCAL 76

May 18, 1990

RECEIVED

MAY 21 1990

DER-BAQM

Hillsborough County Environmental Protection  
Commission  
1900 9th Avenue  
Tampa, Florida 33605

Attention: Mr. Shannon K. Baruch  
Air Program

APPLICATION FOR CONSTRUCTION PERMIT  
Existing Gasoline Storage Tank No. 7

Unocal Tampa Terminal  
1523 Port Avenue  
Tampa, Florida

Dear Mr. Baruch:

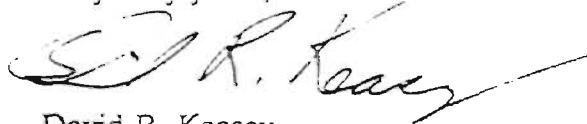
Enclosed are two copies of an application for modification of Storage Tank Number 7 at the Unocal Tampa Terminal. This application is being submitted at this time to correct procedural errors in the permitting process which occurred when the tank was actually modified (January, 1982).

The modification to Tank Number 7 included the installation of an internal floating roof (Petrex system) with a single vapor seal. This modification conformed to federal new source performance standards applicable at the time of modification.

Also enclosed is a check in the amount of \$400.00 to cover permit processing fees.

If you require any additional information, please do not hesitate to call me at (404) 320-2272.

Very truly yours,



David R. Keasey  
Manager  
Marketing Environmental

DRK/bmc

Enclosures

cc: N. L. Melvin  
W. Hanks (DER, Tallahassee) (w/o enclosures)  
J. McDonald (DER, Tampa) (w/o enclosures)

1031

RECEIVED  
DER - MAIL ROOM  
1990 MAY 22 PM 12:10

BY ENDORSEMENT THIS CHECK IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE	AMOUNT
5/18/90	200.00
Construction Permit Fees	
TOTAL OF INVOICES	
LESS % DISCOUNT	
LESS	
TOTAL DEDUCTIONS	
AMOUNT OF CHECK	

Union Oil Company of California  
1650 East Golf Road  
Schaumburg, Illinois 60196

70-2369  
719

No 001630

**UNOCAL** 

Pay to the order of

May 18, 1990 No.

Florida Dept of Envir. Regulations \$ 200.00

**EXACTLY: 200 AND 00 CTS**

Dollars

Continental Bank  
of Oakbrook Terrace  
Oakbrook Terrace, IL 60181 Field Disbursement Account  
or if desired  
Continental Bank  
Chicago, IL 60693

*Royal K. Kufatrick*

DEPARTMENT OF ENVIRONMENTAL REGULATION

\$200 pd.  
5-20-90  
Recpt #151128

RECEIVED



SOUTHWEST DISTRICT

MAY 22 1990

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610-9544

DER-BAQM

AC 29-181079

BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

RICHARD D. GARRITY, PH.D.  
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: GASOLINE STORAGE TANK [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

APPLICATION TYPE: [X] Construction [X] Operation [X] Modification

COMPANY NAME: UNION OIL COMPANY OF CALIFORNIA COUNTY: HILLSBOROUGH

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) STORAGE TANK NO. 7

SOURCE LOCATION: Street 1523 PORT AVENUE City TAMPA

UTM: East 17-358.0 North 3089.1

Latitude 27° 55' 15" N Longitude 82° 26' 35" W

APPLICANT NAME AND TITLE: W. E. HERCHLINE, MGR. DISTRIBUTION

APPLICANT ADDRESS: PO Box 4147 ATLANTA, GA 30302

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of UNOCAL TAMPA TERMINAL

I certify that the statements made in this application for a Permit to construct & operate permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permit establishment.

\*Attach letter of authorization

Signed: W E Herchline

W. E. Herchline, Manager, Distribution  
Name and Title (Please type)

Date: 5/18/90 Telephone No. 404/320-2260

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in this permit application. There is reasonable assurance, in my professional judgment, that

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)



the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

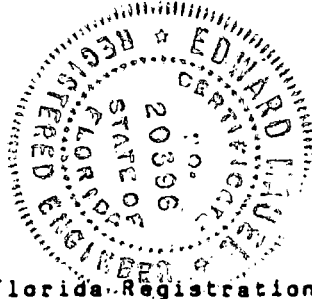
Signed Edward Maue

EDWARD MAUEL  
Name (Please Type)

CONSULTING ENGINEER  
Company Name (Please Type)

2301 WESTWOOD LANE PALATINE, IL 60067  
Mailing Address (Please Type)

Florida Registration No. 20396 Date: 5-8-90 Telephone No. (708) 397-1224



**SECTION II: GENERAL PROJECT INFORMATION**

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Modify Tank No. 7 for gasoline storage. Modification consisting of installation of an internal floating roof with single vapor mounted seal, was done in January, 1982.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction January 18, 1982 Completion of Construction February 28, 1982

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

\$102,858.00 cost of PETREX internal floatin roof system with single seal

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;  
if power plant, hrs/yr N/A ; if seasonal, describe N/A

F. If this is a new source or major modification, answer the following questions.  
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? N/A
  - a. If yes, has "offset" been applied? N/A
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A
  - c. If yes, list non-attainment pollutants. N/A
2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. N/A
3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. N/A
4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? N/A
5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? N/A

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? NO
- a. If yes, for what pollutants?
  - b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - <del>lbs/hr</del> gallons per year	Relate to low Diagram
	Type	% Wt		
TANK 7	VOC	100%	106095387	Figure 1

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): N/A

2. Product Weight (lbs/hr): N/A

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum <del>xxxxxx</del>	Actual T/yr			<del>xxxxxxx</del>	T/yr	
VOC	15.29	T/Yr	40CFRK <sub>a</sub>	3.49	15.29		Figure 1

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Tank 7 - Petrex internal floating roof with vapor seal	VOC	97%+	N/A	AP-42

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
N/A			

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average   N/A   Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

Contaminated water is collected and treated offsite. Solid wastes are disposed offsite at an appropriate solid or hazardous waste disposal facility.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: N/A ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ PS

**SECTION IV: INCINERATOR INFORMATION**

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

**SECTION V: SUPPLEMENTAL REQUIREMENTS**

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes  No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes  No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.



- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 3.
- a. Control Device:
  - b. Operating Principles:
  - c. Efficiency:<sup>1</sup>
  - d. Capital Cost:
  - e. Useful Life:
  - f. Operating Cost:
  - g. Energy:<sup>2</sup>
  - h. Maintenance Cost:
  - i. Availability of construction materials and process chemicals:
  - j. Applicability to manufacturing processes:
  - k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 4.
- a. Control Device:
  - b. Operating Principles:
  - c. Efficiency:<sup>1</sup>
  - d. Capital Costs:
  - e. Useful Life:
  - f. Operating Cost:
  - g. Energy:<sup>2</sup>
  - h. Maintenance Cost:
  - i. Availability of construction materials and process chemicals:
  - j. Applicability to manufacturing processes:
  - k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:<sup>1</sup>
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:<sup>2</sup>
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
- a. (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

**SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION**

**A. Company Monitored Data**

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub> \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

\*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No
- b. Was instrumentation calibrated in accordance with Department procedures?  
[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
- 2. Surface data obtained from (location) \_\_\_\_\_
- 3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
- 4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sub>2</sub>	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

## **SECTION V**

### **(SUPPLEMENTAL INFORMATION)**

1. Not applicable.
2. Basis of emission estimates: AP-42 calculation using projected throughput; a copy of the AP-42 calculation is attached.

Petrex construction drawings are attached, showing details of roof system including vapor seal.

3. Basis of potential discharge: AP-42
4. PETREX construction drawings showing roof and seal system detail are attached.
5. Control device efficiency is based upon information from AP-42.
6. Typical flow diagram is attached.
7. Map attached.
8. Facility layout drawing attached.

AP-42 CALCULATION

Input Sheet

Tank No.	Tampa Tank No. 7 (Projected)
Product:	Gasoline
Product Throughput:	106095387 Gal
Product True Vapor Pressure:	7.2516 PSI
Product Density:	5.60 Lb Per Gal
Product Vapor Molecular Weight:	65.00
Tank Type:	2 Welded Internal Floater
Tank Height:	40 Ft
Tank Diameter:	120 Ft .
Tank Capacity:	3024000 Gal
Primary Seal:	2 Vapor-Mounted
Secondary Seal	0 None
Deck Type:	1 Bolted
Number of Roof Columns	16
Tank Paint Factor:	1.00 (Assumes White Paint)
Small Tank Factor:	1.00 (Assumes no small tanks)
Atmospheric Pressure:	14.7 (Assumes Standard Conditions)
Diurnal Delta Temp:	15 Deg F
Average Wind Speed	0.0 MPH

=====

=====  
AP-42 Emission Estimate  
(Floating Roof Tank)

Tank No. Tampa Tank No. 7 (Projected)  
Tank Type: Welded Internal Floater  
Product: Gasoline

$$\text{Loss(Total)} = \text{Loss(Rim)} + \text{Loss(Withdraw)} + \text{Loss(Fitting)} + \text{Loss(Seam)}$$

$$\text{Loss(Rim)} = \text{KS} * \text{VW} * \text{NW} * \text{PF} * \text{D} * \text{MV} * \text{KC}$$

KS= 6.7 Seal Factor  
VW= 0.001 Average Wind Speed (MPH)  
NW= 0 Wind Speed Exponent  
PF= 0.168344184 Vapor Pressure Function  
D= 120 Tank Diameter (Ft)  
MV= 65 Vapor Molecular Weight  
KC= 1.00 Product Factor

$$\text{Loss(Rim)} = 8797.667037 \text{ (Pounds Per Year)}$$

$$\text{Loss(Withdraw)} = 0.943 * \text{Q} * \text{C} * \text{WL} / \text{D} * (1 + \text{NC} * \text{FC} / \text{D})$$

Q= 2526080.643 Throughput (Bbls)  
C= 0.0015 Cling Factor  
WL= 5.6 Product Liquid Density (Lb Per Gal)  
D= 120 Tank Diameter (Ft)  
NC= 16 Number of Roof Columns  
FC= 1.00 Column Section Factor

$$\text{Loss(Withdraw)} = 188.979461 \text{ (Pounds Per Year)}$$

$$\text{Loss(Fitting)} = \text{FF} * \text{PF} * \text{MV} * \text{KC}$$

FF= 993.88 Fitting Factor  
 PF= 0.168344184 Vapor Pressure Function  
 MV= 65 Vapor Molecular Weight  
 KC= 1.0 Product Factor

Loss(Fitting)= 10875.40462 (Pounds Per Year)

Loss(Seam)= $KD \cdot SD \cdot D \cdot D \cdot PF \cdot MV \cdot KC$

KD= 0.34 Deck Seam Factor  
 SD= 0.20 Seam Length Factor  
 D= 120 Tank Diameter (Ft)  
 PF= 0.168344184 Vapor Pressure Function  
 MV= 65 Vapor Molecular Weight  
 KC= 1.0 Product Factor

Loss(Seam)= 10714.7706 (Pounds Per Year)

Loss Total=	Loss(Rim)	8797.667037
	+ Loss(Withdraw)	188.979461
	+ Loss(Fitting)	10875.40462
	+ Loss(Seam)	10714.7706

= 30577 (Pounds Per Year)  
 = 15.29 (Tons Per Year)  
 = 83.77 (Pounds Per Day)  
 = 3.49 (Pounds Per Hour)



PETREX, INC. NAME (Contractor)	A.F.E. NUMBER	COMMODITY CODE	CONTRACT DATE
	57-81-0712		10-13-81
ADDRESS	1523 Port Ave.		
P. O. Box 907	JOB SITE ADDRESS		
Warren, Pennsylvania 16365	Tampa, Florida		33601
CITY STATE ZIP	CITY STATE ZIP		
	5489		
	COST CENTER NUMBER		

● GENERAL STATEMENT OF WORK: (See Reverse Side for General Contract Terms and Conditions)

Install a Petrex Internal Floating Roof System in Tank No. #7.  
Modify existing Swing Line with Roller Assembly and Float Position Indicator per Dwg. XT-6, Rev. 1 thru 4.  
Install Manways, Ladder & Shell Vents.

*Jan 18, 1982*

*Feb. 28, 1982*

● STARTING DATE ~~Oct 26, 1981~~ *W.L.W.* ESTIMATED COMPLETION DATE ~~Dec 31, 1981~~ *W.L.W.*

● CONTRACTOR TO FURNISH ALL LABOR, MATERIAL AND EQUIPMENT EXCEPT:

No Exceptions

● ATTACHMENTS MADE PART OF THIS CONTRACT:

Petrex, Inc. Quotation #941 dated Aug. 20, 1981.  
Union Oil Dwg. XT-6, Rev. 1 thru 4.

● CONTRACT AMOUNT One hundred two thousand Eight hundred Fifty Eight Dollars & no/ (\$102,858.00)

CONTRACTOR <u>PETREX INC.</u>	Union Oil Company of California
BY <u>W. L. Wagner</u>	BY <u>W. E. Herchline</u>
SIGNATURE <i>W. L. Wagner</i>	SIGNATURE <i>W. E. Herchline</i>
TITLE <u>President</u>	TITLE <u>Division Distribution Manager</u>

CONTRACTOR: COMPLETE ORIGINAL AND DUPLICATE AND RETURN TO: W. L. Gerdon - Union Oil Co. of Calif.  
P. O. Box 1306 - Tampa, Fla. 33601



BEST AVAILABLE COPY

Union 76 Division: Eastern Region  
Union Oil Company of California  
13 Corporate Square, N.E.  
P.O. Box 4147, Atlanta, Georgia 30302  
Telephone (404) 321-3471



W. E. Herchline  
Division Distribution Manager, Atlanta

December 2, 1981

Mr. W. L. Wagner  
Petrex, Inc.  
P. O. Box 907  
Warren, Pennsylvania 16365

RE: AFE #57-81-0712  
TAMPA, FLA. TERMINAL

Dear Mr. Wagner:

We are enclosing executed copies of contract covering internal floating roof system to be installed in Tank #7 at the Tampa Terminal.

Estimated completion date has been revised to February 28, 1982 due to delays in emptying the tank.

Yours very truly,

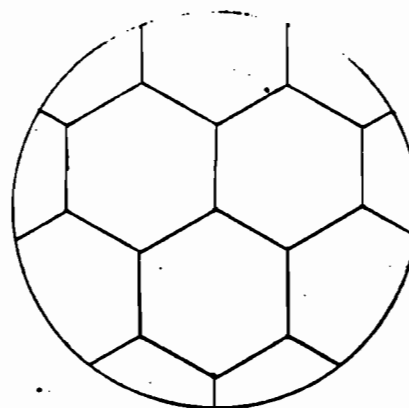
Original signed  
by W. E. Herchline

W. E. Herchline

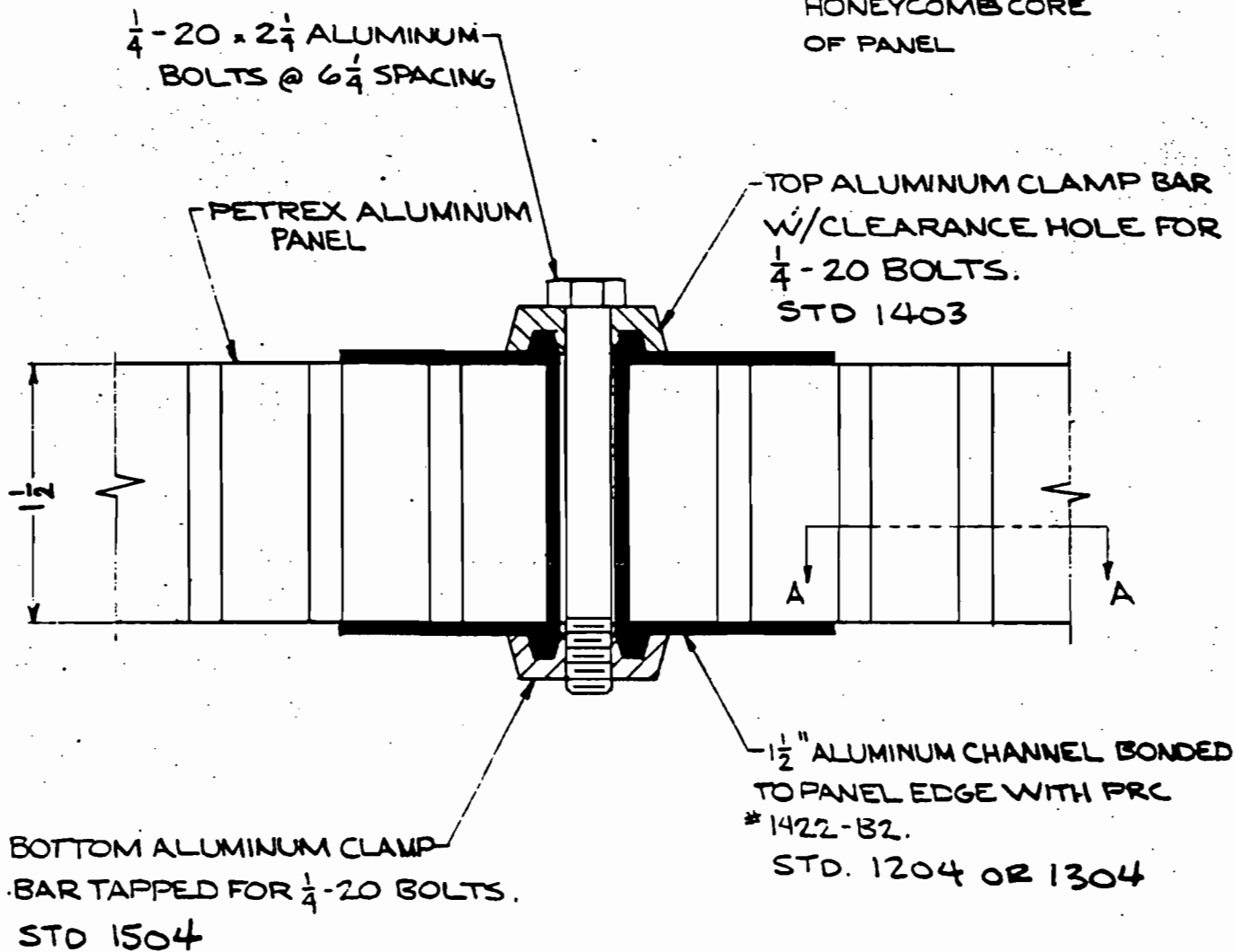
WEH:fem

cc: Mr. W. L. Gerdon ✓

Enc.

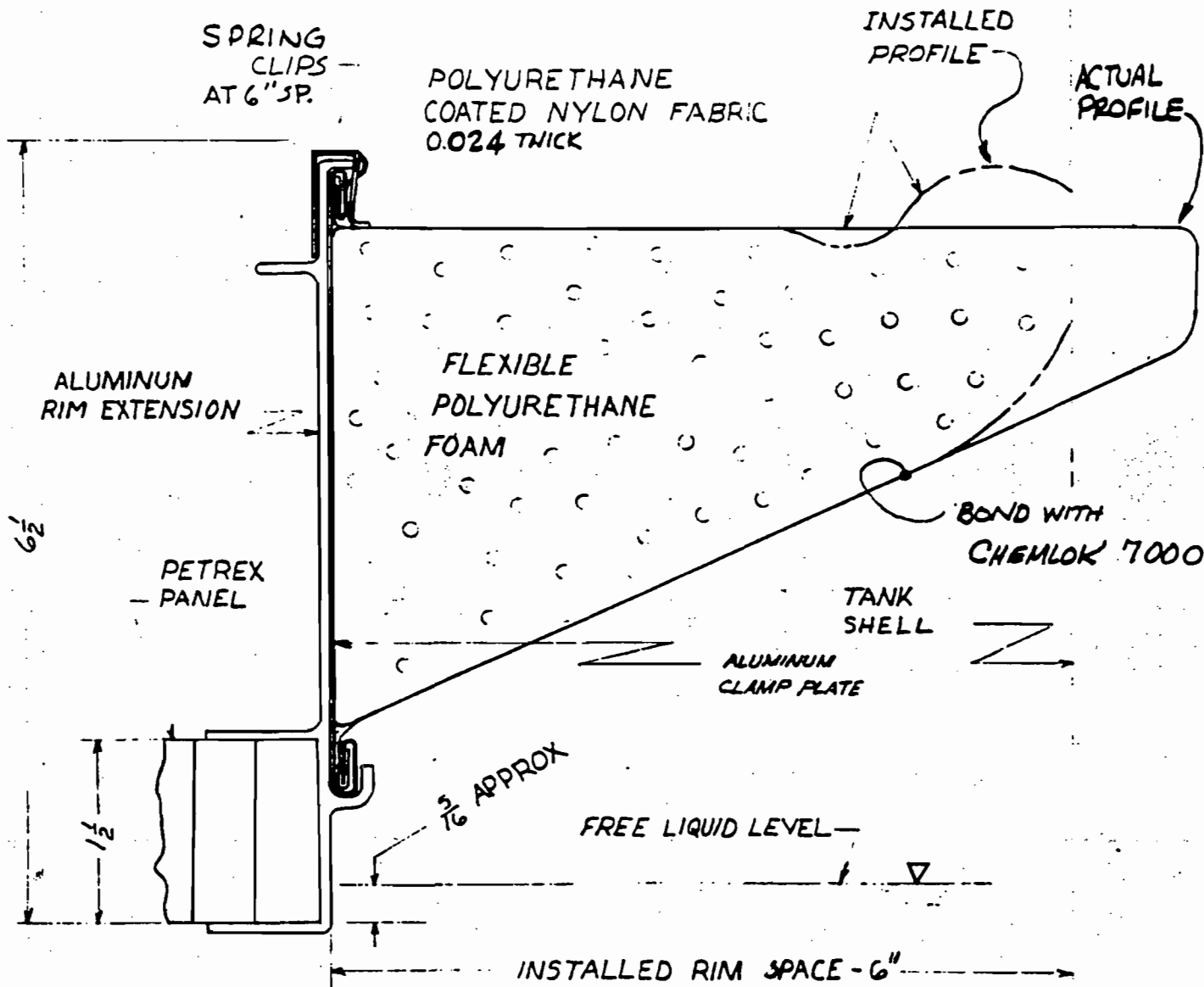


SECTION A-A  
HONEYCOMB CORE  
OF PANEL



PANEL JOINING DETAIL			
CUST.	NO.	DRAWN JLN	
LOCATION		SCALE NONE	
TK. NO.	SIZE	DATE 6.23.76	
PETREX INC WARREN, PENNA.		DRAWING NO. STD 1001	

✓WLW042577



NOTE:  
SEE LAYOUT DRAWING FOR NUMBER REQ'D

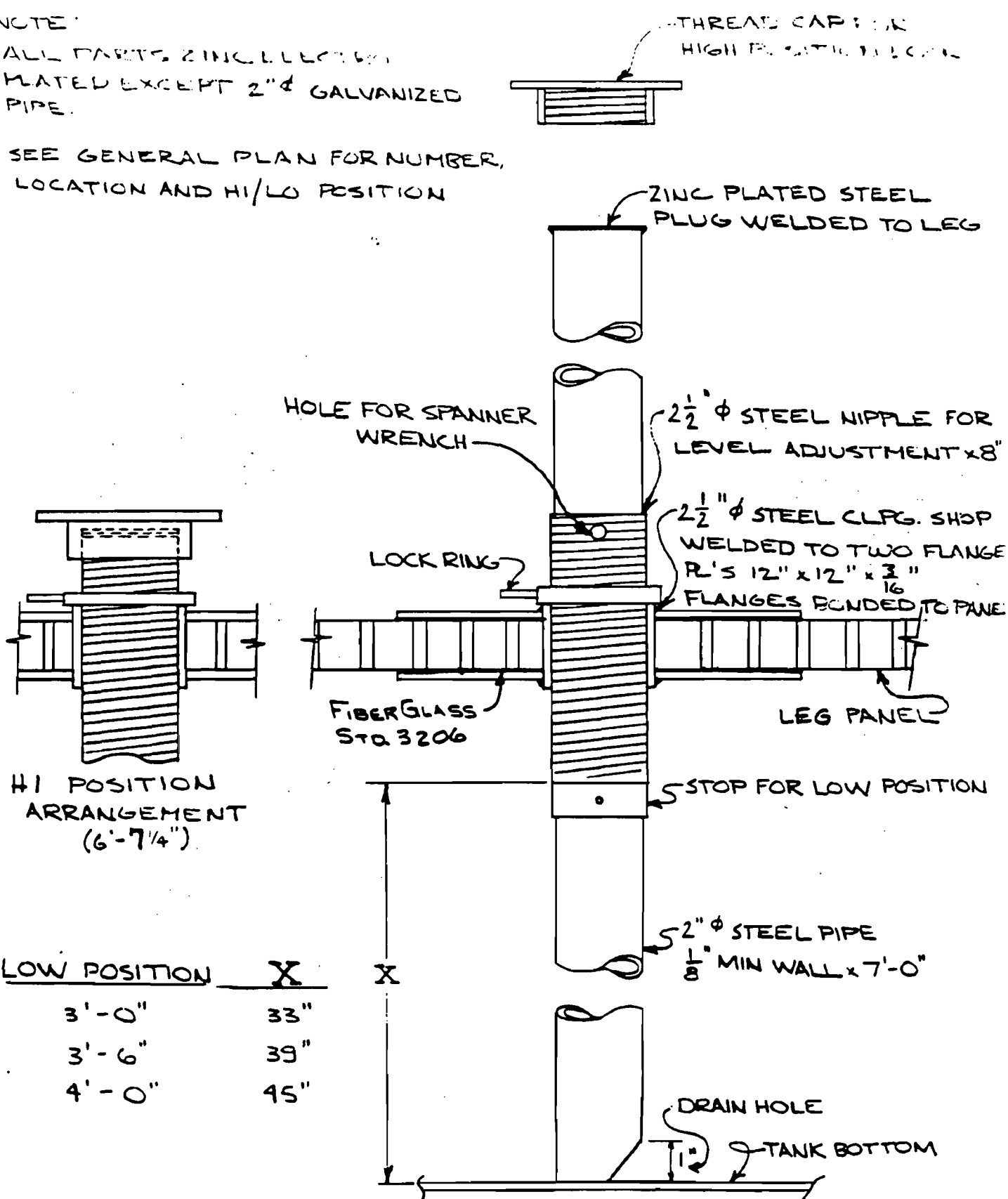
SEAL SECTION 10' LONG & SPLICED TOGETHER. SPLICES MADE WITH LAF STRIPS OF POLYURETHANE COATED NYLON FABRIC & REEVES #R-2265 (STO. 2303)

✓ WLW091376

PERIMETER SEAL DETAIL		
CUST NO.	NO.	DRAWN JLN
LOCATION		SCALE NONE
TK NO.	SIZE	DATE 6/22/76
<b>PETREX INC</b> WARREN, PENNA.		DRAWING NO. STD 2001

NOTE:  
ALL PARTS ZINC PLATED EXCEPT  
2"  $\phi$  GALVANIZED  
PIPE.

SEE GENERAL PLAN FOR NUMBER,  
LOCATION AND HI/LO POSITION



WT = 22\* W/O M & F FLG

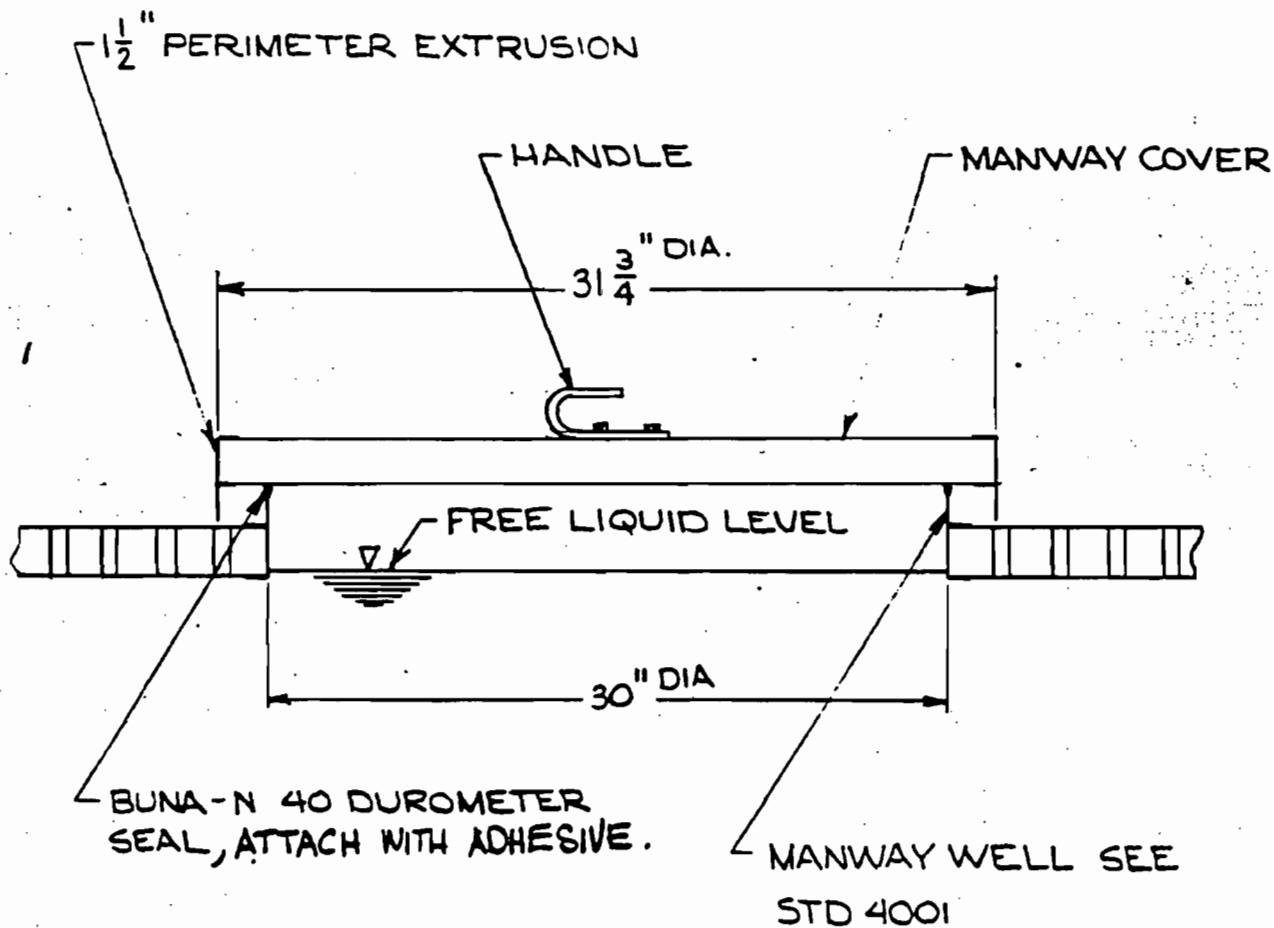
**PETREX** INC.  
WARREN, PA.

BY JLN  
CK WLLW  
DATE 50377

LEG ASSEMBLY DETAIL

DRAWING NO.  
STD 3001

REV



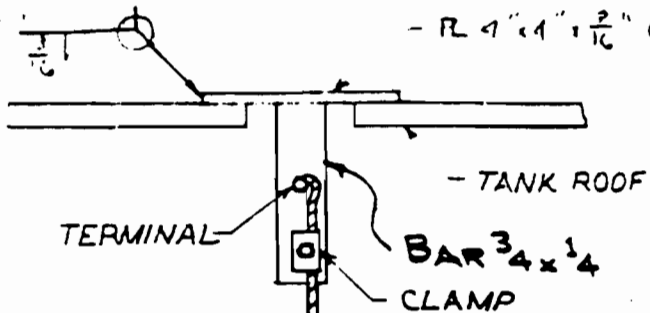
NOTE:

LOCATE NEAR TANK SHELL MANHOLE  
APPROXIMATELY 4'-0" IN FROM SHELL

SEE GENERAL PLAN FOR NUMBER REQ'D

BEST AVAILABLE COPY

- FL 4" x 4" x  $\frac{2}{16}$ " CARBON STEEL



NOTE:  
 CABLES EQUALLY SPACED,  
 APPROXIMATELY ONE THIRD OF  
 THE RADIUS IN FROM TANK SHELL

SEE GENERAL PLAN FOR  
 NUMBER PROVIDED

TERMINAL

- TANK ROOF

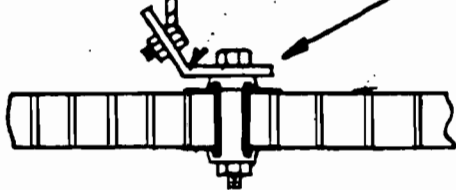
BAR  $\frac{3}{4} \times \frac{1}{4}$   
CLAMP



$\frac{1}{8}$ " AIRCRAFT TYPE 304  
 STAINLESS STEEL  
 CABLE x TANK HEIGHT.

AL CLIP WITH  $\frac{1}{4}$ "  $\phi$  AL BOLTS

PETREX FLOATING  
ROOF PANEL JOINT

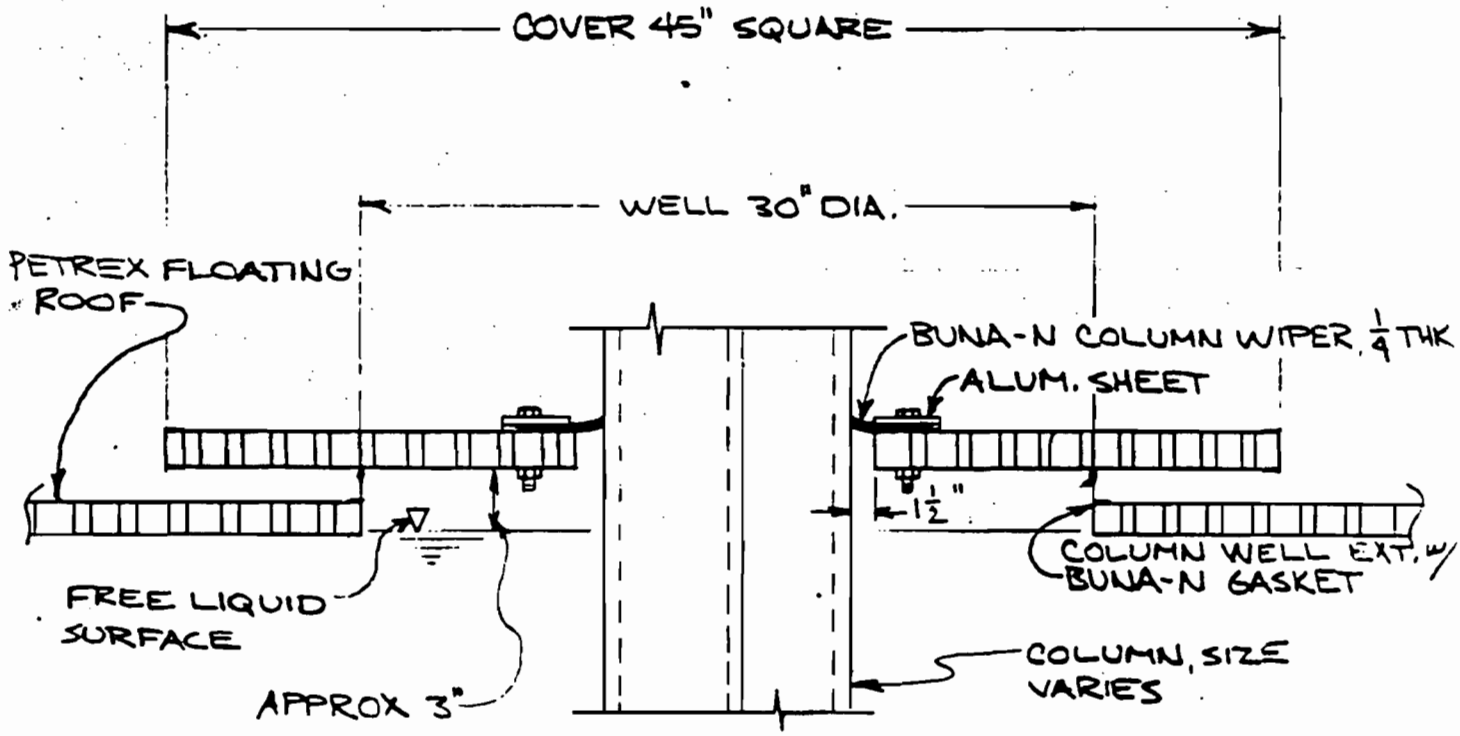
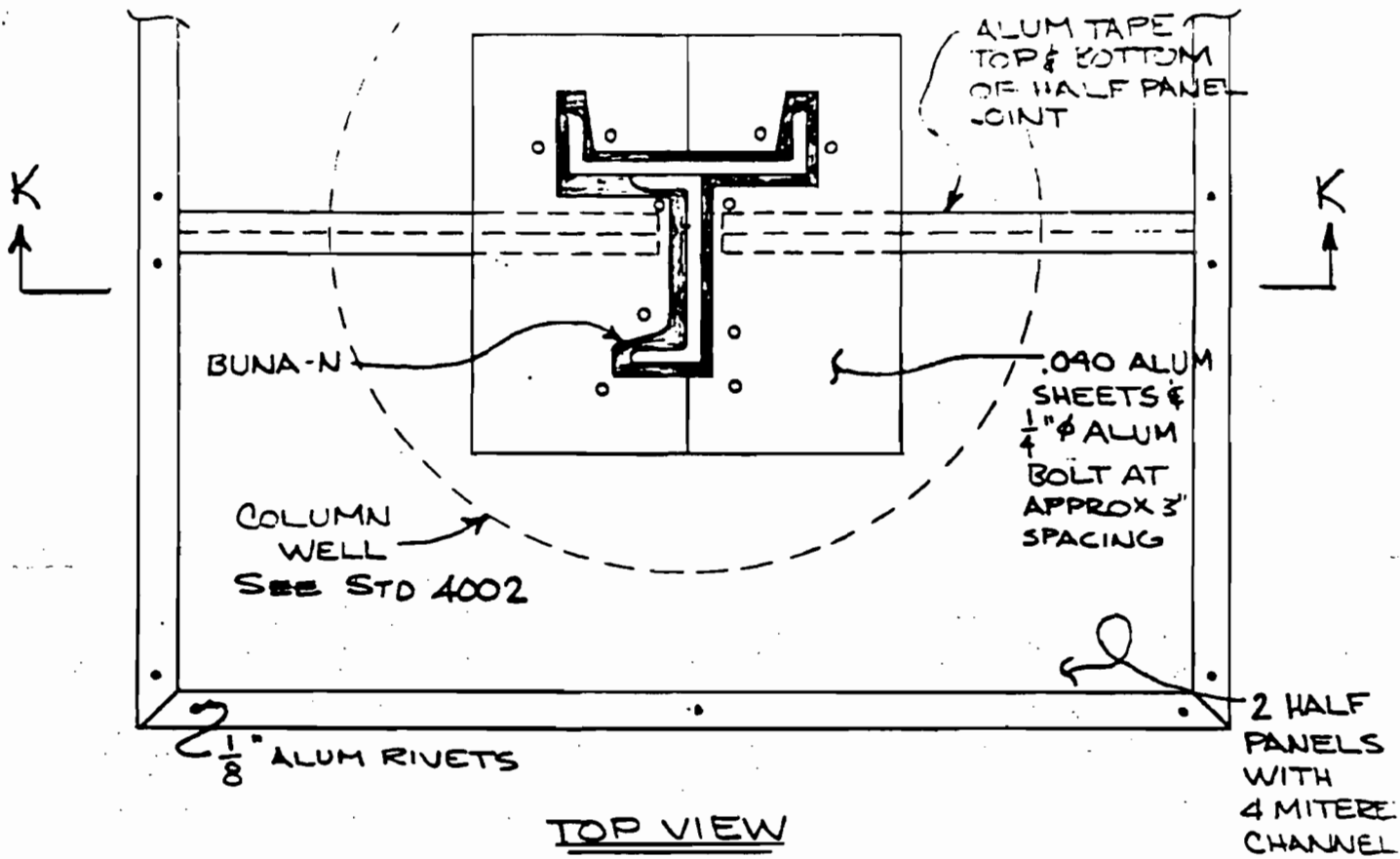


✓REV. JLNO30977

GROUND CABLE  
 INSTALLATION

CUST	NO.	DRAWN JLN
LOCATION		SCALE NONE
TK NO.	SIZE	DATE 6/23/76
PETREX INC WARREN, PENNA.		DRAWING NO. STD-5105

✓WLW 091576

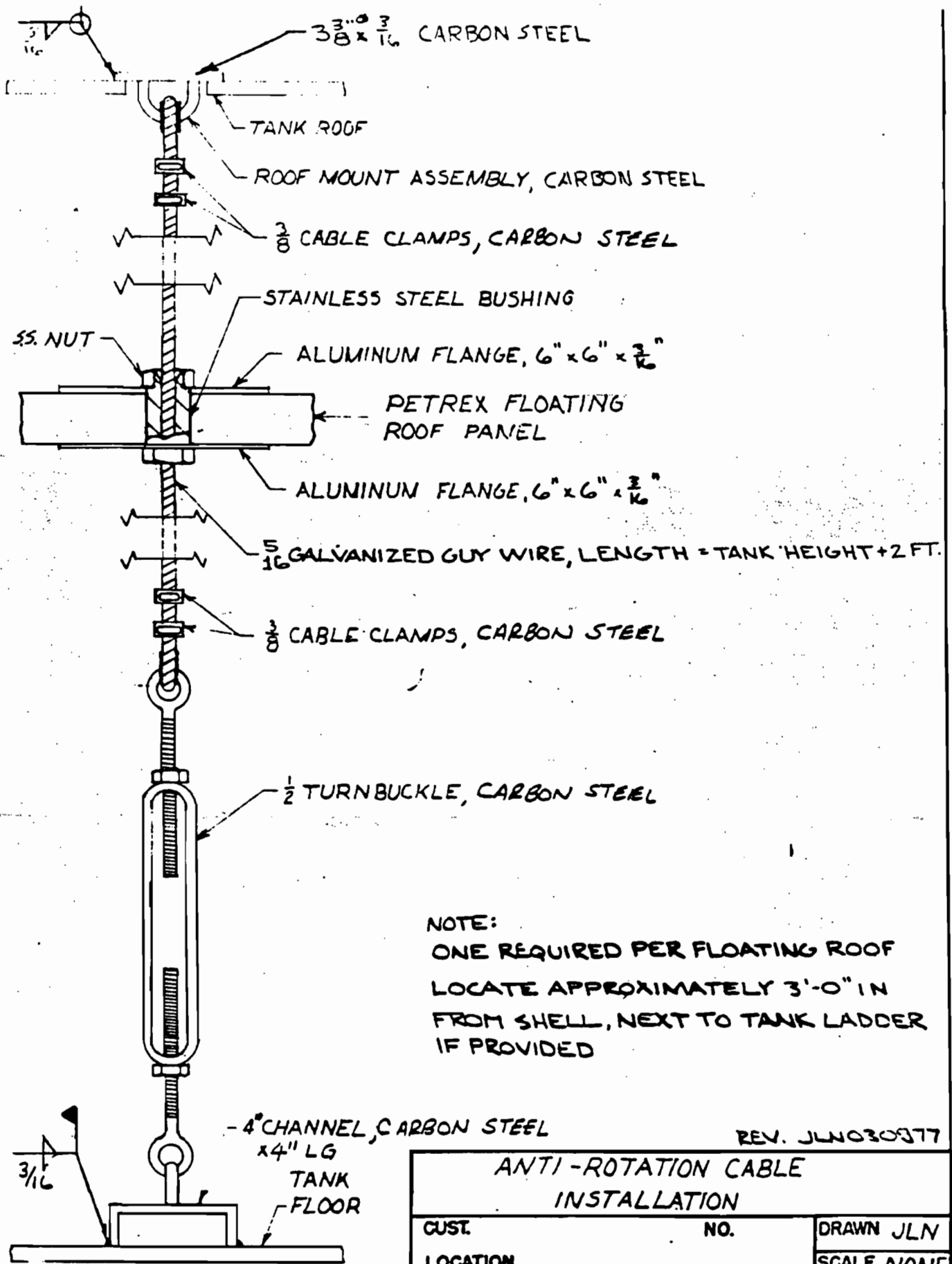


FIELD CUT LID & ALUM. SHEET FOR 1/2" CLEARANCE AROUND COLUMN.

CUT WIPER TO FIT COLUMN

NOTE:

SEE LAYOUT DWG. FOR NUMBER REQ'D



NOTE:  
ONE REQUIRED PER FLOATING ROOF  
LOCATE APPROXIMATELY 3'-0" IN  
FROM SHELL, NEXT TO TANK LADDER  
IF PROVIDED

REV. JUN030377

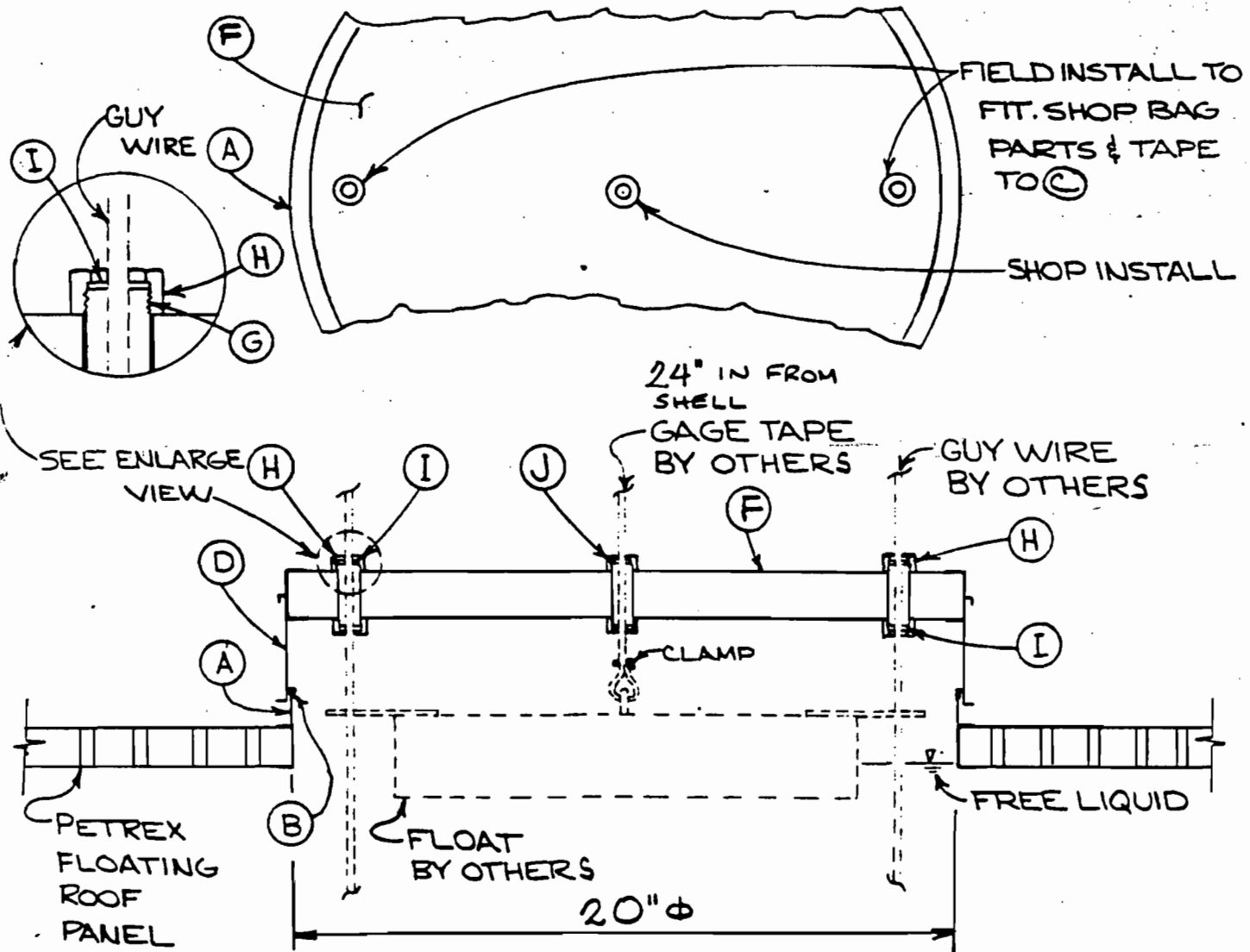
ANTI-ROTATION CABLE  
INSTALLATION

CUST. NO.	NO.	DRAWN JLN
LOCATION		SCALE NONE
TK. NO.	SIZE	DATE 6/23/76
PETREX INC WARREN, PENNA.		DRAWING NO. STD. 5201

✓ WLWD42573



SHIP PC	PART N <sup>o</sup>	ASS'Y PC	DESCRIPTION
1	A		COL. WELL EXT. x 62 <sup>7</sup> / <sub>8</sub> " LG. ROLLED TO 20" I.D. WITH SPLICE PLATES.
1	B		GASKET 63" LG BUNA-N
1	C		LID ASSEMBLY
	D	1	PERIMETER EXT. 66" LONG ROLLED TO 21" I.D.
	E	1	SPLICE PLATE
	F	1	HONEYCOMBE PANEL CUT TO 20 <sup>3</sup> / <sub>4</sub> " DIA.
	G	3	GALV. <sup>1</sup> / <sub>2</sub> " PIPE NIPPLES - 2" LONG.
	H	6	PLASTIC <sup>1</sup> / <sub>2</sub> " CONDUCT NUTS
	I	4	RUBBER SEALS FOR GUY WIRES
	J	2	RUBBER SEAL FOR GAGE TAPE



**PETREX** INC.  
WARREN, PA.

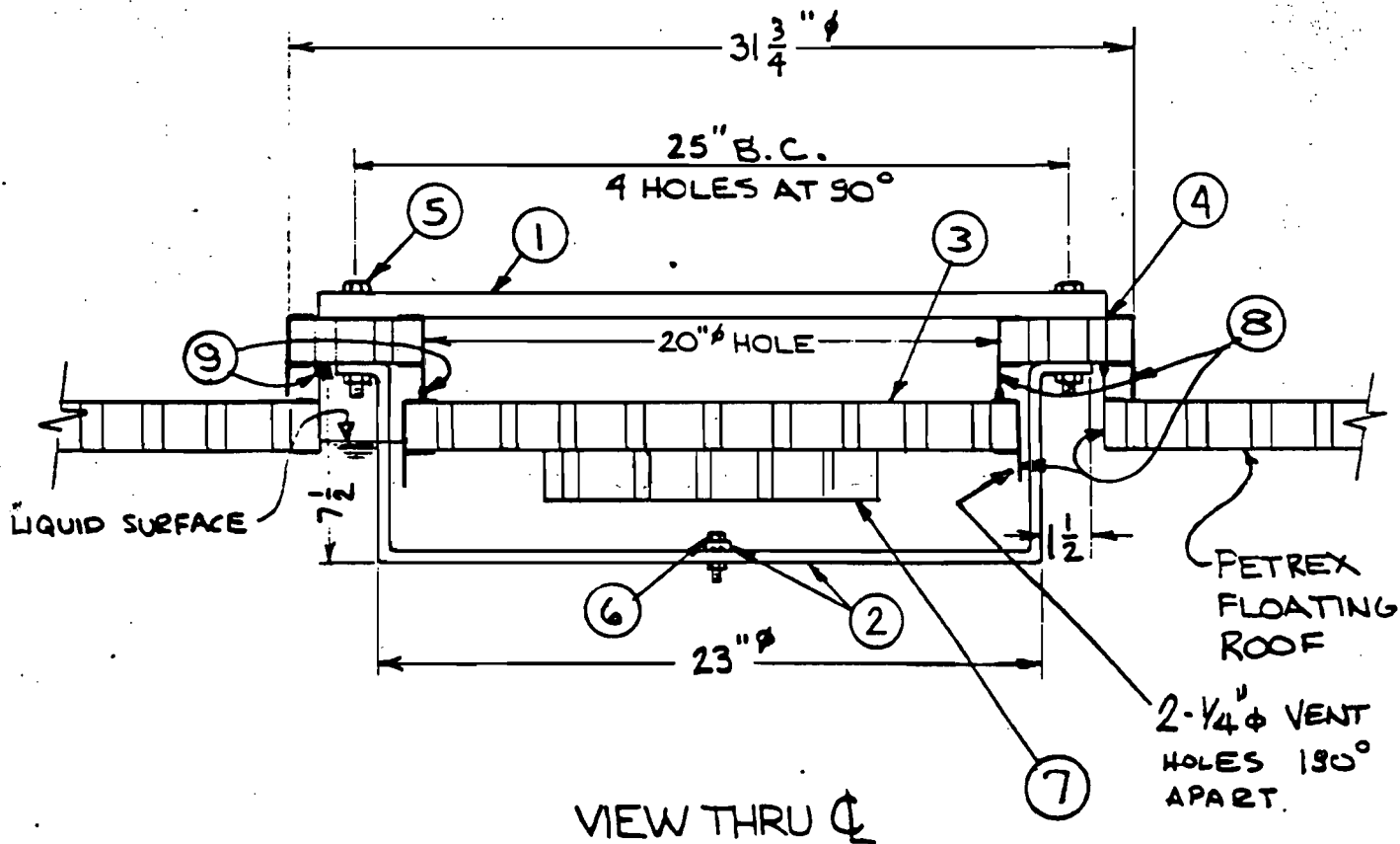
BY JLN  
CK WLW  
DATE 5.16.77

AUTOMATIC GAGE FLOAT WELL

DRAWING NO.  
STD 5311

REV  
0

P.N.	NAME	REQD	DESCRIPTION
1	HANDLE	1	1" SQ BAR x 29" STEEL ← PAINT WITH ZINC OXIDE
2	CAGE	2	CLAMP BAR x 42" LG
3	FLOAT	1	22" $\phi$ PETREX PANEL
4	MANWAY COVER	1	31 $\frac{3}{4}$ " $\phi$ PETREX PANEL
5	BOLTS	4	AL. HEX BOLT $\frac{1}{4}$ " x 20 x 3/4
6	BOLT	1	AL HEX BOLT $\frac{1}{4}$ " x 20 x 1" LG
7	FLOAT	1	12" x 12" PETREX PANEL
8	EXTRUS.	4	COLUMN WELL EXTRUS.
9	SEAL	2	BUNA-N



③ & ⑦ SHOW IN FLOATING POSITION

172 IN<sup>2</sup> VENT AREA

**PETREX** INC.  
WARREN, PA.

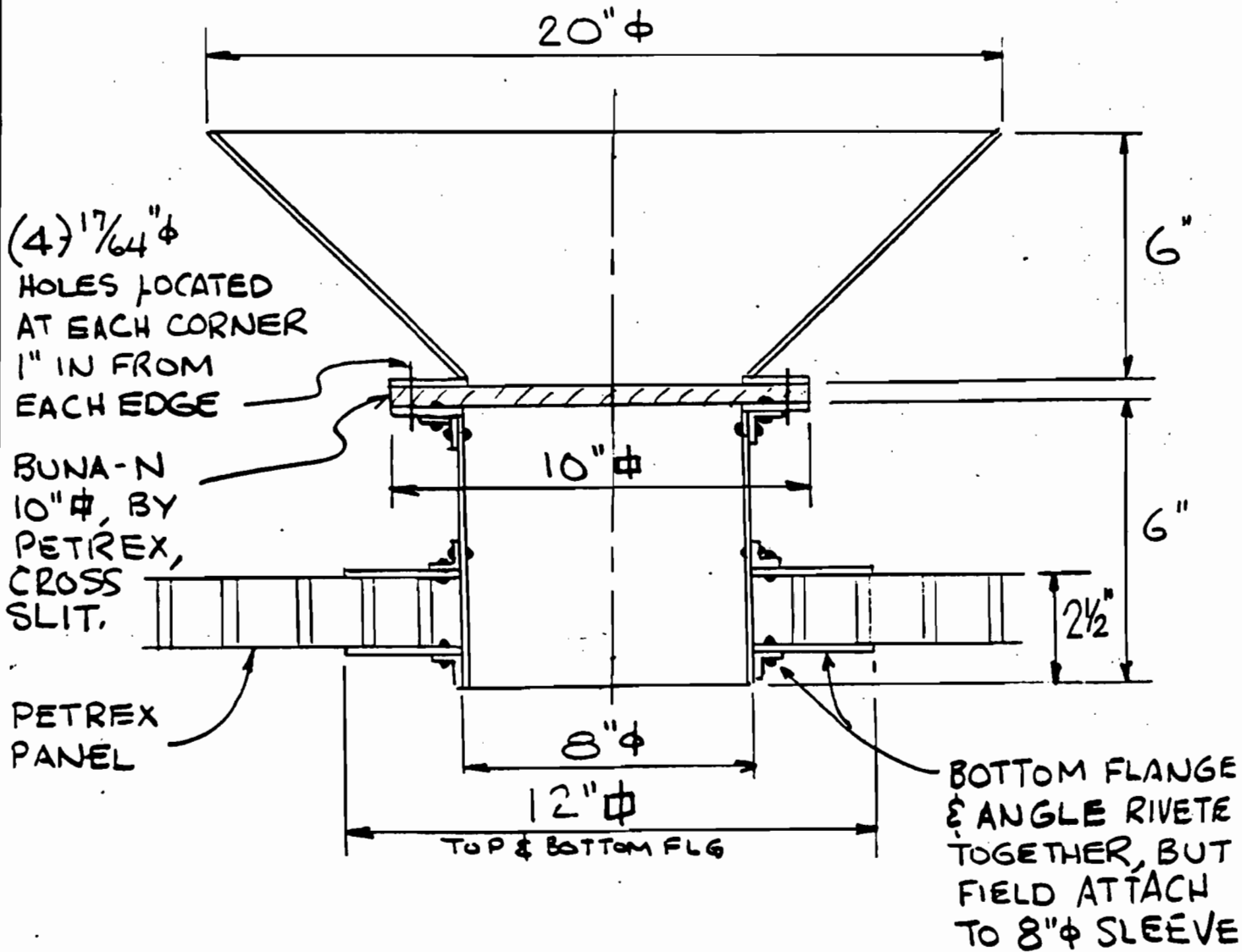
BY JLN  
CK WLW  
DATE 4.22.77

PV MANWAY TYPE I

DRAWING NO.  
STD 5420

REV  
0

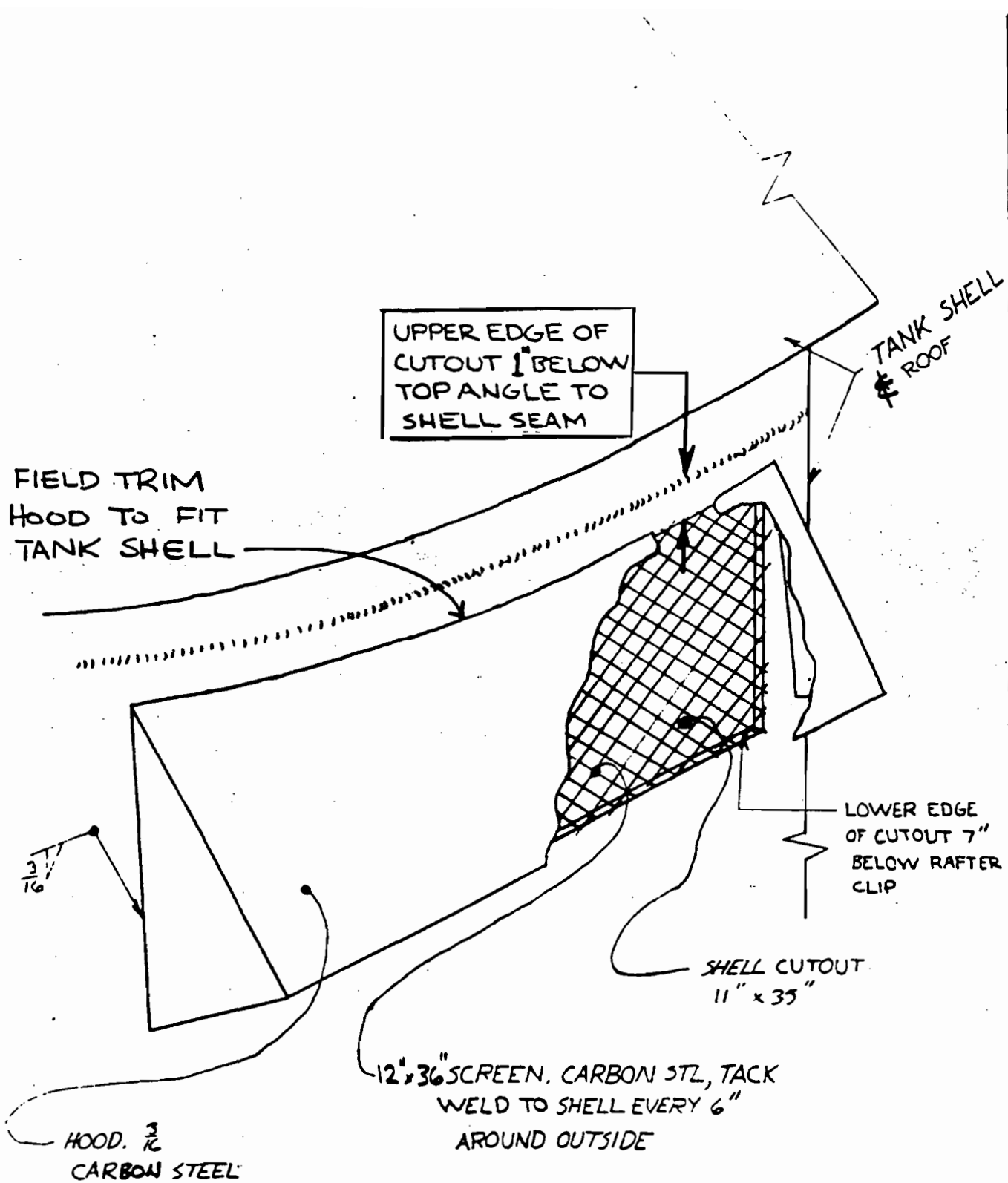
MATERIAL : SHEET- 0.040 ALUMINUM  
 RIVETS- 1/8"  $\phi$  ALUMINUM



FIELD LOCATE DIRECTLY  
 BELOW GAGE HATCH IN  
 TANK ROOF.  
 EDGE OF CONE MUST  
 CLEAR TANK SHELL  
 BY 6"

Replaces 5510 & 5511

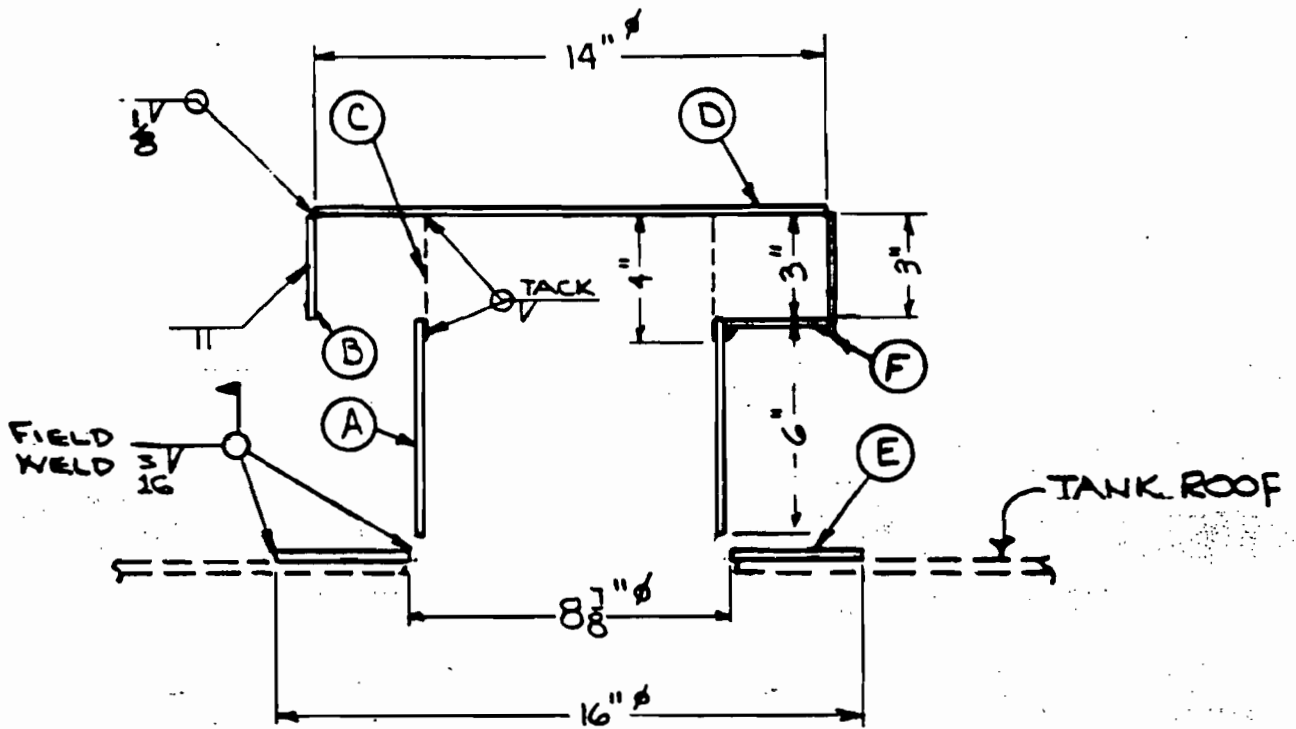
<b>PETREX</b> INC. WARREN, PA.	BY WJLW CK B.M.J. DATE 12.8.79	GAGE FUNNEL ~ 8" $\phi$	DRAWING NO. STD 5512	RE C
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VENTS EQUALLY SPACED  
 AROUND TANK SHELL,  
 MOVE VENT TO MISS  
 ROOF RAFTERS.

✓ NLW042577

<b>SHELL VENT ASSEMBLY.</b>		
CUST NO.		DRAWN JLN
LOCATION		SCALE NONE
TK NO.	SIZE	DATE 6/26/76
PETREX INC WARREN, PENNA.		DRAWING NO. STD 6610



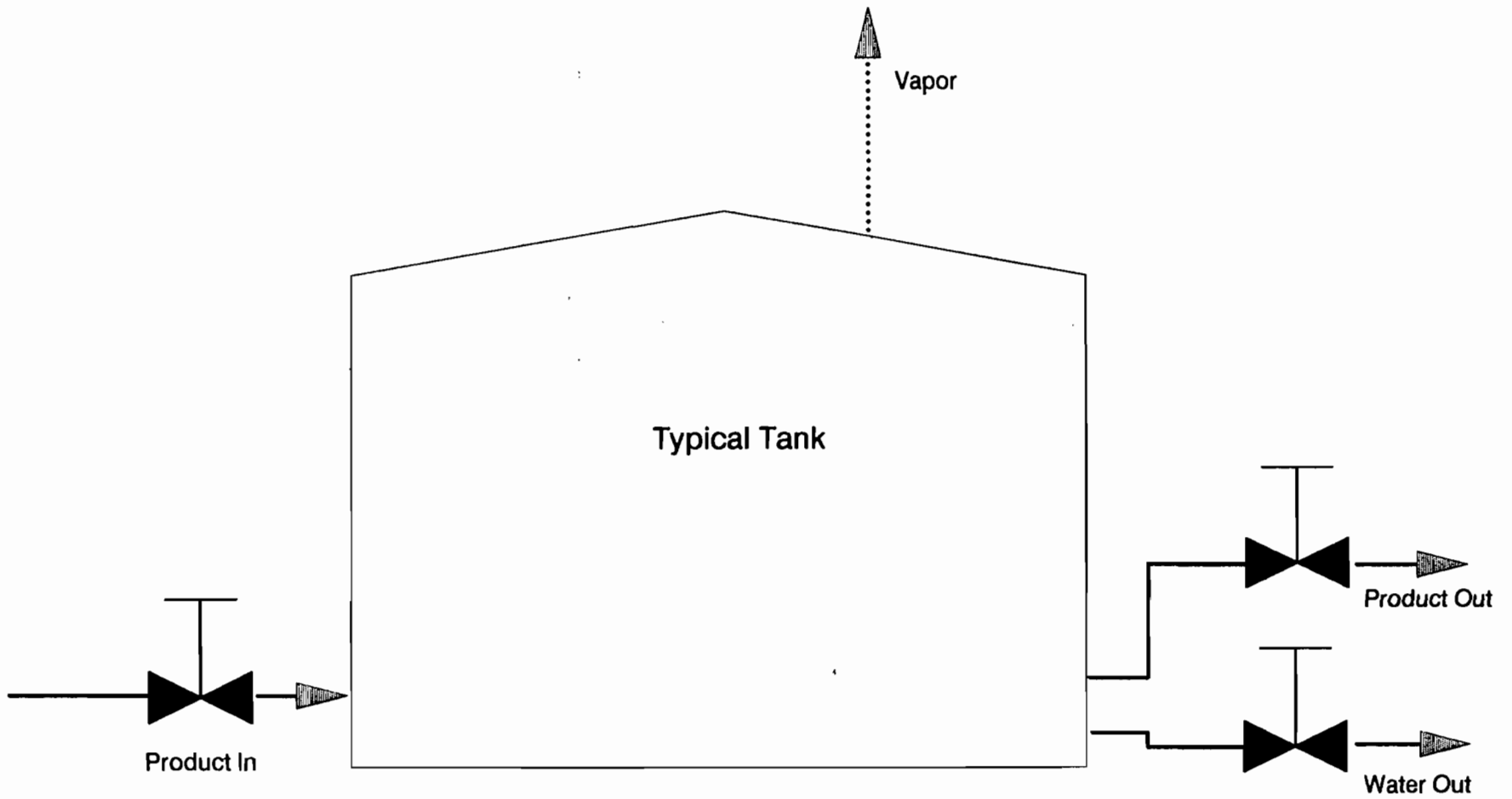
- (A) 1 Pc 8"  $\phi$  PIPE x 0'-6"
- (B) 1 PL 3" x 1/8" x 44" - ROLL
- (C) 1 Pc EXPANDED MESH 4" x 26" - ROLL
- (D) 1 PL 14"  $\phi$  x 1/8"
- (E) 1 PL 16" OD x 3/16" x 8 7/8" I.D.
- (F) 4 Pcs STRAP 3/16" x 1" x 2 5/8"

REV - 2 4-11-80 RMJ.  
 REV. 1 9-27-78

✓ WLW022477

50 1/2

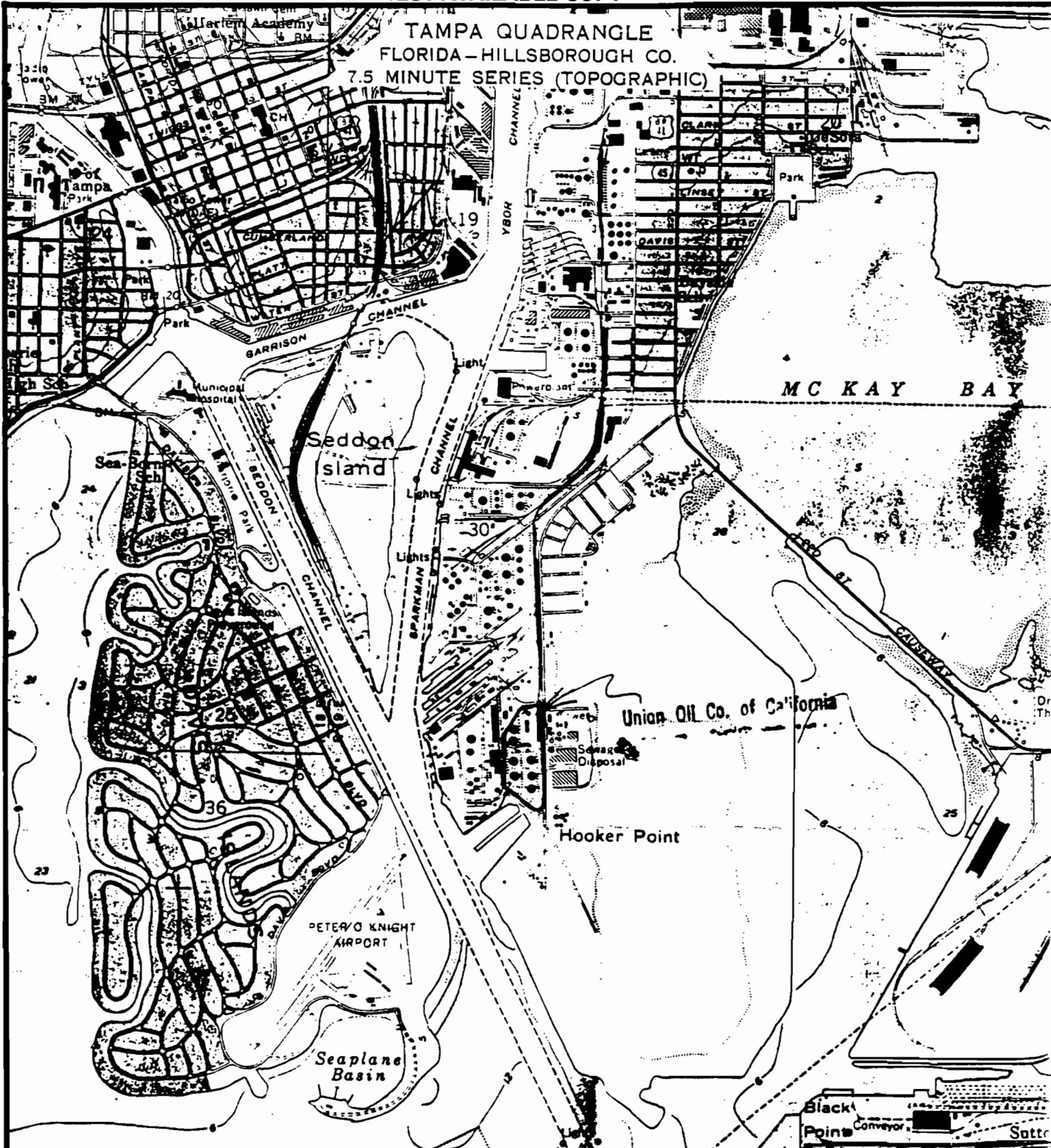
8" $\phi$ CENTER VENT		
CUST.	NO.	DRAWN JLN
LOCATION		SCALE NONE
TK NO.	SIZE	DATE 2.16.77
PETREX INC WARREN, PENNA		DRAWING NO. STD 6630



## FLOW DIAGRAM

Typical Storage Tank

TAMPA QUADRANGLE  
FLORIDA—HILLSBOROUGH CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



MC KAY BAY

Seddon Island

Union Oil Co. of California

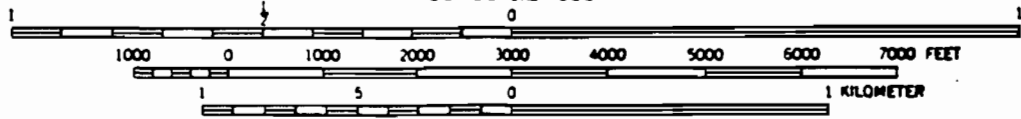
Hooker Point

PETER O KNIGHT AIRPORT

Seaplane Basin

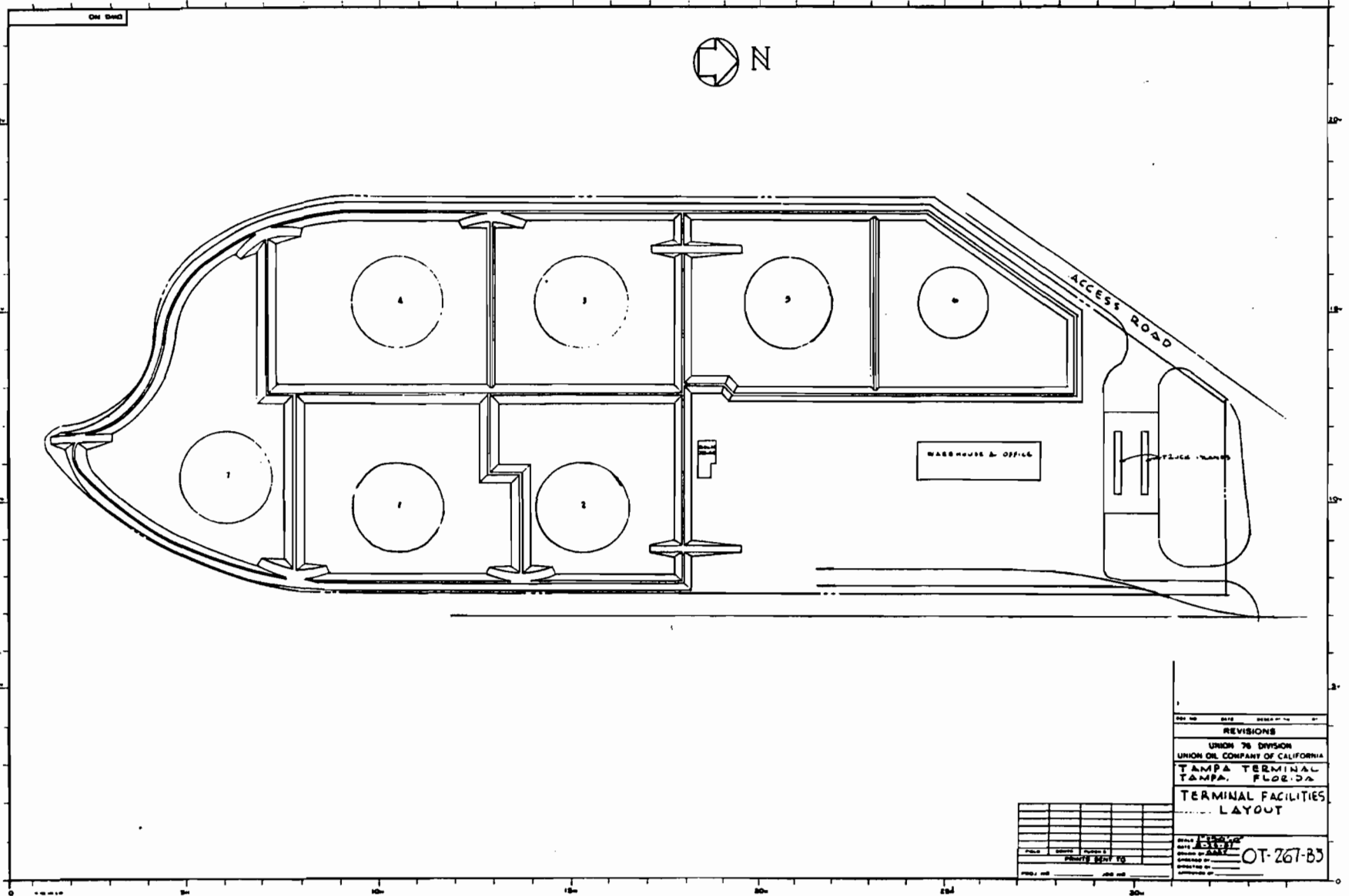
Black Point Conveyor  
Satter  
Conveyor

SCALE 1:24000



CONTOUR INTERVAL 5 FEET  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER  
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2 FEET

TAMPA, FLA.  
N2752.5—W8222.5/7.5  
1956  
PHOTOREVISED 1969  
AMS 4539 IV NW—SERIES V847



REV. NO.	DATE	REVISION
REVISIONS		
UNION 76 DIVISION		
UNION OIL COMPANY OF CALIFORNIA		
TAMPA TERMINAL		
TAMPA, FLORIDA		
TERMINAL FACILITIES		
LAYOUT		

NO.	DATE	BY	CHKD.

OT-267-B3