**Site Detail Report**

**Target Property:** 3455 LONG BEACH BLVD.  
LONG BEACH, CA 90807  

**JOB:** 0313031

---

**SLIC**

<table>
<thead>
<tr>
<th>EDR ID</th>
<th>S108937560</th>
<th>DIST/DIR: 0.334 South</th>
<th>ELEVATION: 49</th>
<th>MAP ID: 28</th>
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</table>

**NAME:** MEDICAL OFFICE BUILDING  
**ADDRESS:** 3200-3220 LONG BEACH BLVD  
LONG BEACH, CA 90807  
LOS ANGELES  

**SOURCE:** CA State Water Resources Control Board  

---

**SLIC:**  
Region: STATE  
Facility Status: Open - Remediation  
Status Date: 11/20/2007  
Global Id: SL0603792721  
Lead Agency: LONG BEACH, CITY OF  
Lead Agency Case Number: Not reported  
Latitude: 33.815778  
Longitude: -118.199223  
Case Type: Cleanup Program Site  
Case Worker: CP  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: Not reported  
File Location: Not reported  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

---

Click here to access the California GeoTracker records for this facility:

---

3615964.1s Site Details Page - 61
Site Detail Report

Target Property: 3455 LONG BEACH BLVD.
LONG BEACH, CA 90807

SLIC

EDR ID: U003666827 DIST/DIR: 0.365 ESE ELEVATION: 89 MAP ID: 29

NAME: TRICO INDUSTRIES
ADDRESS: 3356 LIME AVE
SIGNAL HILL, CA
LOS ANGELES
SOURCE: CA State Water Resources Control Board

Rev: 03/18/2013
ID/Status: Completed - Case Closed
ID/Status: No further action required
ID/Status: Completed - Case Closed

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 03/28/2003
Global Id: SL2044A1586
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.6043610864346
Longitude: -118.170461386555
Case Type: Cleanup Program Site
Case Worker: SH
Local Agency: Not reported
RB Case Number: 0489
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0489
Substances: TPH/V
Staff: SH
Site Detail Report

Target Property: 3455 LONG BEACH BLVD.
LONG BEACH, CA 90807

JOB: 0313031

LUST

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<th>EDR ID:</th>
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<th>DIST/DIR: 0.395 ESE</th>
<th>ELEVATION: 92</th>
<th>MAP ID: 30</th>
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</table>

NAME: TESORO GASOLINE DIGAS SIGNAL HILL
ADDRESS: 700 E 33 ST
SIGNAL HILL, CA 90755

SOURCE: CA State Water Resources Control Board

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-11132
Status: Preliminary site assessment underway
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Remove Free Product
Global ID: 70603703749
W Global ID: Not reported
Staff: NB
Local Agency: 19000
Cross Street: ATLANTIC AVE
Enforcement Type: LET
Date Leak Discovered: 2/27/1992
Date Leak First Reported: 2/27/1992
Date Leak Record Entered: 3/31/1992
Date Confirmation Began: Not reported
Date Leak Stopped: 2/27/1992
Date Case Last Changed on Database: 4/9/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Operator: HELTON, LARRY
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 4314.3220390534314610527842265
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: 11/20/1991
Preliminary Site Assessment Began: 1/31/1997
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: 8/30/1999
Hist Max MTBE Conc in Groundwater: 820
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported

- Continued on next page -
Site Detail Report

Target Property: 3455 LONG BEACH BLVD.  
LONG BEACH, CA 90807  

JOB: 0313031

LUST

EDR ID: 1000341685  
DIST/DIR: 0.395 ESE  
ELEVATION: 92  
MAP ID: 30

NAME: TESORO GASOLINE DIGAS SIGNAL HILL

ADDRESS: 700 E 33 ST  
SIGNAL HILL, CA 90755

SOURCE: CA State Water Resources Control Board

Rev: 03/18/2013  
ID/Status: Preliminary site assessment underway  
ID/Status: I-11132

GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: MARILYN GUTHRIE  
RP Address: 999 3RD AVE., SUITE #4000  
Program: LUST  
Lat/Long: 33.816963 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported

Summary: STATION DEMO & TANKS (4) 2/92. FP NOT BEING REMOVED. D6 EXTENT OF GW  
PLUME NOT DEFINED. FP IN MW-1, NOT TESTING FOR MTBE, EXTENT OF GW  
PLUME NOT DEFINED, NOT MEASURING TUR-BIDITY DURING PURGING, NO  
MANIFESTS, NO REPORT OF EA
### Site Detail Report

**Target Property:** 3455 LONG BEACH BLVD.  
LONG BEACH, CA 90807  
**JOB:** 0313031

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<th>EDR ID</th>
<th>1000287376</th>
<th>DIST/DIR:</th>
<th>0.420 ESE</th>
<th>ELEVATION:</th>
<th>86</th>
<th>MAP ID:</th>
<th>31</th>
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</table>

**NAME:** QUALITY DIESEL SVC  
**ADDRESS:** 3311 OLIVE  
LONG BEACH, CA 90807  
LOS ANGELES  
**SOURCE:** CA State Water Resources Control Board

**LUST:**  
Region: STATE  
Global Id: T0603792926  
Latitude: 33.817566  
Longitude: -118.183147  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 03/07/1986  
Lead Agency: LOS ANGELES COUNTY  
Case Worker: JOA  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: I-10576  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**Contact:**  
Global Id: T0603792926  
Contact Type: Local Agency Caseworker  
Contact Name: JOHN AWUJO  
Organization Name: LOS ANGELES COUNTY  
Address: 900 S FREMONT AVE  
City: ALHAMBRA  
Email: jawujo@dwp.lacounty.gov  
Phone Number: 6264583507

Global Id: T0603792926  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

**Regulatory Activities:**  
Global Id: T0603792926  
Action Type: Other  
Date: 01/31/1950  
Action: Leak Stopped  

- Continued on next page -
**Site Detail Report**

Target Property: 3455 LONG BEACH BLVD.  
LONG BEACH, CA 90807

### LUST

<table>
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</table>

**NAME:** QUALITY DIESEL SVC  
**ADDRESS:** 3311 OLIVE  
LONG BEACH, CA 90807  
LOS ANGELES  
**SOURCE:** CA State Water Resources Control Board  

Global Id: T0603792926  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0603792926  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

**LUST REG 4:**  
Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: i-10576  
Status: Leak being confirmed  
Substance: Diesel  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Not reported  
Global Id: T0603792926  
W Global Id: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: 33RD  
Enforcement Type: Not reported  
Date Leak Discovered: 1/10/1986  
Date Leak First Reported: 1/10/1986  
Date Leak Record Entered: 12/31/1986  
Date Confirmation Began: 1/10/1986  
Date Leak Stopped: 1/10/1986  
Date Case Last Changed on Database: 8/25/1997  
Date the Case was Closed: Not reported  
How Leak Discovered: Tank Closure  
How Leak Stopped: Not reported  
Cause of Leak: Corrosion  
Leak Source: Tank  
Operator: ERIC JOHNSON  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 4061.370178846229353980136701  
Source of Cleanup Funding: Tank

- Continued on next page -
**Site Detail Report**

Target Property: 3455 LONG BEACH BLVD.  
LONG BEACH, CA 90807  

**LUST**

<table>
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<th>DIST/DIR: 0.420 ESE</th>
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NAME: QUALITY DIESEL SVC  
ADDRESS: 3311 OLIVE  
LONG BEACH, CA 90807  
LOS ANGELES  

SOURCE: CA State Water Resources Control Board

Rev: 03/18/2013  
ID/Status: Leak being confirmed  
ID/Status: Completed - Case Closed  
ID/Status: I-10576

Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: VICTORY OIL COMPANY  
Address: 3381 MYRTLE STREET, LONG BEACH, CA 90807  
Program: LUST  
Lat/Long: 33.817389/-1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: MANY HOLES FOUND ON SIDE OF THE TANK
Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Depleted: DELISTED NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA used to delete sites from the NPL. In accordance with 40 CFR 300.425(a), sites may be deleted from the NPL where no further response is appropriate. DELISTED NPL - National Priority List Deletions

CERCLIS: CERCLIS CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). Unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

RCRA COR ACT: CORRACCTS CORRACCTS Identifies hazardous waste handlers with RCRA corrective action activity. CORRACCTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDF's treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESSQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IA / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List: US INST CONTROL - Sites with Institutional Controls.

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System
Database Descriptions

State/Tribal NPL: RESPONSE identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.
RESPONSE - State Response Sites

State/Tribal CERCLIS: ENVIROSTOR The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) ENVIROSTOR database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund Voluntary Cleanup; and School sites. ENVIROSTOR provides similar information to the information that was available in CalSITES, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites. ENVIROSTOR - ENVIROSTOR Database

State/Tribal SWL: SWF/LF (SWIS) Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 404 criteria for solid waste landfills or disposal sites. SWF/LF (SWIS) - Solid Waste Information System


State/Tribal VCP: VCP Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs. VCP - Voluntary Cleanup Program Properties
Database Descriptions

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Other SWF: VENTURA CO. LF SAN DIEGO CO. LF - Solid Waste Facilities. CA LA LF - City of Los Angeles Landfills. LOS ANGELES CO. LF - List of Solid Waste Facilities, Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites. LOS ANGELES CO. LF - Inventory of Illegal Abandoned and Inactive Sites WMUDS/SWAT - Waste Management Unit Database.

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice (the "Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumps. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs SCH - School Property Evaluation Program.


Local Land Records: DEED Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Lien Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit.

The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners. DEED - Deed Restriction Listing


Other: RCRA NonGen / NLR RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators TRIS - Toxic Chemical Release Inventory System.


Database Sources

NPL: EPA
Updated Quarterly

NPL Delisted: EPA
Updated Quarterly

CERCLIS: EPA
Updated Quarterly

NFRAP: EPA
Updated Quarterly

RCRA COR ACT: EPA
Updated Quarterly

RCRA TSD: Environmental Protection Agency
Updated Quarterly

RCRA GEN: Environmental Protection Agency
Updated Quarterly

Federal IC / EC: Environmental Protection Agency
Varies

ERNS: National Response Center, United States Coast Guard
Updated Annually

State/Tribal NPL: Department of Toxic Substances Control
Updated Quarterly

State/Tribal CERCLIS: Department of Toxic Substances Control
Updated Quarterly

State/Tribal SWL: Department of Resources Recycling and Recovery
Updated Quarterly

State/Tribal LTANKS: California Regional Water Quality Control Board Victorville Branch Office (6)
No Update Planned
Database Sources

State/Tribal Tanks: SWRCB
Updated Semi-Annually

State/Tribal VCP: Department of Toxic Substances Control
Updated Quarterly

US Brownfields: Environmental Protection Agency
Updated Semi-Annually

Other SWF: Environmental Health Division
Updated Annually

Other Haz Sites: Drug Enforcement Administration
Updated Quarterly

Other Tanks: Alameda County Environmental Health Services
Updated Semi-Annually

Local Land Records: Department of Toxic Substances Control
Updated Semi-Annually

Spills: U.S. Department of Transportation
Updated Annually

Other: Environmental Protection Agency
Varies
### Street Name Report for Streets near the Target Property

**Target Property:** 3455 LONG BEACH BLVD.  
LONG BEACH, CA  90807  

**JOB:** 0313031

<table>
<thead>
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<th>Street Name</th>
<th>Dist/Dir</th>
<th>Street Name</th>
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<tbody>
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<td></td>
</tr>
<tr>
<td>Driveway</td>
<td>0.13 SE</td>
<td></td>
<td></td>
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<tr>
<td>E 33rd St</td>
<td>0.22 SSE</td>
<td></td>
<td></td>
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<tr>
<td>E 35th St</td>
<td>0.02 North</td>
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<td>E 36th St</td>
<td>0.14 North</td>
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<td>E Cameron Pl</td>
<td>0.21 North</td>
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<td></td>
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<td>0.22 South</td>
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<td></td>
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<tr>
<td>E Pepper Dr</td>
<td>0.24 SSW</td>
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<tr>
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<td>0.08 South</td>
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<td>I 405</td>
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<td>Long Beach Blvd</td>
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<td>0.24 SSW</td>
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<tr>
<td>W Wardlow Rd</td>
<td>0.12 SW</td>
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</table>
Lease # 03-92752

Foster & Kleiser
AMETROMEDIA COMPANY

July 22, 1980

Date

The undersigned, as Lessor, hereby leases and grants exclusively to Foster and Kleiser, Division of Metromedia, Inc., as Lessee, the property (with free access to and upon same) located in the City of Long Beach, County of Los Angeles, State of California, described as:

1. Long Beach Blvd. & 55th SW - Long Beach
Lot 20, Block F - Los Cerritos Tract

as per map thereof recorded in the Office of the County Recorder of

2. Lessee shall pay to the Lessor rental in the amount of

(3.500.00) Dollars per year, payable on a monthly basis.

3. Lessee shall save the Lessor harmless from all damage to persons or property by reason of accidents resulting from the negligent acts of its agents, employees or others employed in the construction, maintenance, repair or removal of its signs on the property.

4. Lessor agrees that he, his tenants, agents, employees, or other persons acting in his or their behalf shall not place or maintain any object on the property or on any neighboring property which would in any way obstruct or impair the view of Lessee's sign structures. If such an obstruction or impairment occurs, the Lessor, without limiting such other remedies as may be available, has the option of requiring the Lessee to remove said obstruction or impairment, or the Lessee may itself remove the obstruction or impairment charging the cost of such removal to the Lessee, or the Lessee may reduce the rental hereby paid to the sum of Five ($500) Dollars per year so long as such obstruction or impairment continues.

5. If the view of Lessee's signs is obstructed or impaired in any way, or if the existence of such signs is diminished by reason of deviation or reduction of vehicular traffic, or if the use of any such signs is prevented or restricted by law, or if for any reason a building permit for erection or modification of any such signs is refused, the Lessee may immediately, at its option, adjust the rental in direct proportion to the decreased value of the leased premises for advertising purposes resulting from any of the foregoing circumstances, or may terminate the lease and receive adjustment for all rent paid for the unexpired term.

6. If Lessee is prevented by law, or governmental or military order, or other cause beyond Lessee's control from illuminating its signs, the Lessee may reduce the rental provided by paragraph 5 by one-half (1/2), with such reduced rental to remain in effect so long as such condition continues to exist.

7. This Lease shall continue in full force and effect for its term and thereafter for such additional periods of time as may be specified in writing by the Lessee, provided that the Lessee shall have the right to terminate the Lease at the end of sixty (60) days prior to the end of such term or any successive ten year term upon written notice by the Lessor or Lessee served sixty (60) days prior to the end of such sixty day period. If Lessor shall have the right to terminate the Lease at any time during the period of this Lease if the Lessee is to improve the unimproved property by erecting thereon a permanent private commercial or residential building. Lessee shall remove its signs within sixty (60) days after receipt of a copy of the applicable building permit. The Lessee will, upon giving such notice of building, return to the Lessee all rent paid for the unexpired term plus the value of the use of the premises by Lessee as of the date of the notice. If Lessee fails to commence the erection of the private commercial or residential building within sixty (60) days after Lessee removes its signs, Lessee shall again have the right to occupy the premises and maintain advertising signs subject to the provisions of this Lease. If any portions of the premises are not to be utilized for such building, the Lessee has the option to use the remaining portion on the same terms, except that the rent shall be proportionately reduced.

8. It is agreed between the parties that Lessee shall remain the owner of all advertising signs, structures, and improvements erected or made by Lessee, and that notwithstanding the fact that the same constitute real property, the Lessee shall have the right to remove said signs, structures, and improvements at any time during the term of the Lease, or after the expiration of the Lease.

9. This lease shall constitute the sole agreement of the parties relating to the lease of the property described above. Neither party will be bound by any statements, warranties, or promises, oral or written, unless such statements, warranties, or promises are set forth specifically in this Lease.

10. The word "Lessee" as used herein shall include Lessees, their successors, lessees, and assigns of Lessee and Lessor.

11. Lessor represents that he is the owner(s) (transferor(s) (other(s) of the property covered by this Lease and has the authority to execute this Lease. All rents to be paid pursuant to this Lease, and all notices are to be forwarded to the undersigned Lessor at the address noted below the Lessor's signature.

EXECUTED by the Lessee in the presence of

who is hereby requested to sign as witness.

WITNESS:

ACCEPTED: FOSTER AND KLEISER
Division of Metromedia, Inc.

By:

Title:

LEASORS

By:

Address:

Long Beach, CA 90806

by:

Title:

METRO ESCRROW, INC.
APPENDIX E

REGULATORY AGENCY FILE REVIEW INFORMATION
REPORT
UNDERGROUND STORAGE TANK CLOSURE

REVISED

Project 302.0482

PREPARED FOR:

Mr. J.D. Cathers
2292 Long Beach Blvd.
Long Beach, CA 90807

SITE:

3459 Long Beach Blvd.
Long Beach, CA 90807

PREPARED BY:

Ancon Marine, Incorporated
1010 S. Cabrillo Avenue
San Pedro, California 90731

DECEMBER 1994
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Appendix A - Regulatory Documentation
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Appendix A - Regulatory Documentation
Appendix B - Chain-of-Custody and Lab Results
FIGURE 1

AREA MAP
FIGURE 2

SITE MAP
1. BACKGROUND

A. Site Description

Mr. J.D. Cathers had one (1) steel underground storage tank (UST) at the 3459 Long Beach Blvd., Long Beach location. The storage tank was approximately 550 gallon in capacity used for motor vehicle fueling operations and last contained diesel or gasoline. The site is located on Figure 1 - Area Map. As a measure of compliance with current City of Long Beach Fire Department (LBFD) regulations, Mr. Cather entered into a contract with Ancon to remove the UST. The UST installation as depicted in Figure 2 - Site Diagram, had no recorded history of leakage at the tank pit location.

B. Hydrogeology

Los Angeles County records indicate a depth to ground water in the area approximately 118.2 feet below surface level. This was measured at Well No. 937A approximately 0.5 miles southwest of the site in October of 1991.

C. Geology

Soils encountered during tank removal operations and adjacent area sampling demonstrated that the site is underlain by alluvium of Recent Age. The native alluvium consists of interbedded layers of silty sands and sands underlain by a caliche-like material. The tank backfill was native material consisting of sands and silty sands. The site is 64.0 feet above sea level.

D. Permits

On December 9, 1994, a permit to perform the removal was issued prior to site work. Preparation of the tank for removal was performed per the LBFD guidelines. Ancon Marine has a South Coast Air Quality Management District (SCAQMD) excavation multiple site permit for Rule 1166 compliance. Tank Degassing was not required according to SCAQMD Rule 1149 regulations. Notifications given: AQMD - Verification Number E294-0191; Underground Service Alert - Verification Number 900731 and Long Beach Fire Department - Project Number 183295.
II. TANK REMOVAL

A. Tank Preparation

On December 20, 1994 the tank's residual contents and cleaning rinsate were removed for transfer to an onsite treatment system. A copy of the Uniform Hazardous Waste Manifests substitute is in Appendix A - Regulatory Documentation.

B. Tank Removal

On December 20, 1994 the tank was certified clean by a certified Marine Chemist (certificate #7040). The tank was in good condition with no evidence of deterioration. The tank was transported to Wilmington Salvage for scrap metal disposition.

III. POST REMOVAL PROCEDURES

A. Soil Sampling

All soil samples were collected under supervision of Registered Civil Engineer Matthew Walker as instructed by the LBFD. Two samples were collected (as seen in Figure 2) at a depth of 2-3 feet below the tank inverts and one sample from the excavated soils stockpile. The samples were transported for analysis to Truesdail Laboratories, Inc., a Department of Health Services certified lab located in Tustin, California. The samples were handled and transported in strict accordance with applicable EPA and Long Beach Health Department Regulations. The samples collected were analyzed for gasoline and diesel hydrocarbons by EPA method 8015M & Aromatic Volatile Organics by EPA method 8020. Sample times and date are recorded on the Chain-of-Custody record. The Chain-of-Custody recorded is in Appendix B - Chain-of-Custody and Lab Results.

B. Lab Analysis

Soil sample analytical results are summarized in Table I below. The analytical results are in Appendix B - Chain-of-Custody and Lab Results.

<table>
<thead>
<tr>
<th></th>
<th>Gasoline/Diesel 8015(m) PPM</th>
<th>Benzene 8020 PPB</th>
<th>Toluene 8020 PPB</th>
<th>Ethylbenzene 8020 PPB</th>
<th>Xylenes 8020 PPB</th>
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</table>

*ND indicates none detected or below detection limits
IV. CONCLUSION

The underground storage tank site, as sampled and tested, appears to be within the maximum allowable contaminant levels, in the forms of TPH and BTEX.

The site work has been performed in accordance with the LBFD and LBHD regulations. Should you have any questions or comments, please call me for discussion between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Sincerely,

Dale Strieter, REA
Manager of Technical Services

Matthew Walker, P.E.
Principal Engineer
APPENDIX A

REGULATORY DOCUMENTATION
Remove ___ tank(s) per current Long Beach Fire Department and Long Beach Health Department guidelines. Soil sample analysis shall be submitted to both agencies within 14 days.

I have read and understand the above.

Signature: [Signature]
Print name & phone #: Dale Stricker 310-548-8300
Company and Title: ANCON Marine Inc.
CITY OF LONG BEACH
INSPECTION REQUEST LINE (310) 590-2560

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (Commercing with Section 7000) of Division 3 of the Business and Professional Code, and my license is in full force and effect.

License Class: Contractor
License No.

Date: Contractor

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractors License Law for the following reason (Sec. 7031 California Business and Professional Code): Any City which requires a permit to construct, alter, improve, demolish or repair any structure prior to its issuance also requires the applicant for such permit to file a signed statement that he is a licensed contractor pursuant to the provisions of the Contractors License Act (Ch. 9 of Section 7000 of Div. 3 of the B. P. C.) or that he is exempt therefrom and the basis for the alleged exemption. Any variation of Sec. 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00).

* I am owner of the property, my employees with wages as their sole compensation, will do the work not intended or offered for sale. If, however, the building or improvements is sold within one year of completion, the owner-builder will have burden of proving that he did not build or improve for the purpose of sale.

* I am owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, B. P. C.). The Contractors License Law does not apply to an owner of structures with a license pursuant to the Contractors License Act.

* I am exempt under Sec. B. P. C. for this reason.

Date: Owner

IMPORTANT:

Application is hereby made to the Fire Marshal, Bureau of Fire Prevention for a permit subject to the conditions and restrictions set forth on the front of this application

1. Each person upon whose behalf this application is made and each person whose benefit work is performed under or pursuant to any permit issued as a result of this application agrees to and shall, indemnify and hold harmless the City of Long Beach (its officers, agents and employees from any liability arising out of the issuance of any permit from this application).

2. Any permit issued as a result of this application becomes null and void if work is not commenced within ONE HUNDRED EIGHTY (180) DAYS from date of issuance of such permit.

JOB ADDRESS

3459 LONG BEACH BLVD

JOB DESCRIPTION

JIT-REMOVE 1 UNDGRND TANK -DP

OWNER

CATHER, JAMES D

ADDRESS

3459 LONG BEACH BLVD

CITY

LONG BEACH CA 90807

SUBMITTER

ANCON

CONTRACTOR

ADDRESS

STATE ZIP CODE PHONE

STATE LICENSE NO.

ARCHITECT/ENGINEER

LICENSE NO.

ADDRESS

VALUATION

PRESENT BLDG USE

PROPOSED BLDG USE

LEGAL DESCRIPTION

LOS CERRITOS LOTS 20 AND

PAID BY

ANCON

LEGAL PAYMENT

CHECK

Check # 28696

UNDERGROUND TANKS

TOTAL FEE

200.00

Permit Fee

200.00

TOTAL FEE

200.00
In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT: This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is subject to change with all qualifications and instructions.

Signed

[Name]

[Company]

[Date]

[Marine Chemist]

[Certificate No.]
December 5, 1994

HEALTH AND SAFETY PLAN FOR UNDERGROUND STORAGE TANK REMOVAL ACTIVITIES LOCATED AT 3459 LONG BEACH BLVD. LONG BEACH, CALIFORNIA

PROJECT NO. 302.0482

PREPARED BY:
ANCON MARINE, INCORPORATED
1010 Cabrillo Avenue
San Pedro, California 90731
1.0 INTRODUCTION

This document presents the health and safety procedures that are intended to guide field activities at the J.D. Cathers (site) located at 3459 Long Beach Blvd., in Long Beach, California. The provisions of this plan apply to employees of Ancon Marine, Incorporated (ANCON) and its subcontractors. Employees of Federal, State, local agencies and the client are expected to observe the safety rules and regulations established by their respective organizations in addition to the requirements of this document. The health and safety plan is intended to provide health and safety procedures for work conducted as a part of Ancon Marine, Inc’s workplan.

2.0 PROJECT SAFETY PERSONNEL

Personnel responsible for project safety are the Project Safety Officer, the Project Manager, and the Site Safety Officer.

The Project Safety Officer is responsible for delivering the plan and any addenda to the Project Manager and for advising the Project Manager and Site Safety Officer on health and safety matters. He/she (hereinafter referred to us as "he") has the authority to audit compliance with the provisions of this plan, suspend work or modify work practices for safety reasons, and to dismiss individuals whose conduct on-site endangers the health and safety of others.

The Project Manager is responsible for distributing the plan to Ancon field personnel and to an authorized representative of each firm contracted to assist with on-site work. The Project Manager is also responsible for delegation of responsibility to the Site Safety officer to implement the provisions of this plan and its addenda. Implementation includes review of field personnel’s compliance with Ancon’s medical examination requirements, training of field personnel involved with the project, provision for the specified safety equipment, and submittal of the health and safety documents to the Project Safety Officer. The authority of the project Manager is the same as that of the Project Safety Officer.
The Site Safety Officer is responsible for the on-site implementation of this site safety plan. His responsibilities include: 1) maintaining safety equipment supplies, 2) performing air quality measurements as required, 3) directing decontamination operations and emergency response operations, 4) setting up work zone markers and signs if such zones are specified in the site safety plan, and 5) reporting all accidents incidents, and infractions of safety rules and requirements to the Project Manager and the Project Safety Officer.

The Site Safety Officer has the authority to suspend work any time that he considers the provisions of the site safety plan inadequate to provide a working environment conducive to worker safety. He is to inform the project Manager of individuals whose on-site presence jeopardizes their health and safety or the health and safety of others.

3.0 WORK DESCRIPTION

The description of work to be conducted is described in the workplan prepared by Ancon Marine, Inc. The workplan includes the following types of activities:

- Excavation to expose underground storage tanks and piping
- Cleaning and removal of underground storage tanks and piping.

4.0 JOB HAZARD ANALYSIS

4.1 Hazardous Chemicals Reported at the Site

Based on prior experience and the laboratory results of chemical analysis of samples taken at the site following potential hazardous materials may be encountered during the field work at the site:

1. Gasoline
2. Benzene
3. Toluene
4. Ethylbenzene
5. Total Xylenes
6. Diesel

Table 1 lists the chemicals along with exposure limits, and exposure limits, and exposure routes.
4.2 **Dermal Exposure Hazard**

Contact of sufficient duration to cause significant absorption of toxic components is judged to be highly unlikely. Repeated daily or prolonged contact with Petroleum Hydrocarbons, however, could result in defatting of the skin and can, over a long period of time, lead to irritation and dermatitis. For this reason direct skin contact with materials shall be avoided by wearing protective gloves. However, if contact does occur, the exposed area shall be washed and rinsed thoroughly.

4.3 **Inhalation Exposure Hazard**

Inhalation of sufficient quantities of organic compounds is the primary hazard at this site. Elevated levels could be present and will be the elements of concern during remediation activities. Work performed causing a potential for dust will be constantly wetted with a water fog.

4.4 **Activity Hazard**

4.4.1 **Excavating/Cleaning/Removal Procedures**

A large size (755) backhoe, hydrocrane, and 60 foot overall length tractor trailer rigs will be in motion on site. Potential for being struck by moving machinery is present.

A safe distance shall be maintained between the heavy equipment and personnel observing the excavation activities and/or working in the area. The work area must also be regulated in order to keep a few people as possible away from the equipment and potential hazards. Traffic patterns must also be set up before work begins in order to route the vehicles in an orderly manner to minimize the potential for traffic accidents.

Excavated areas must be completely guarded on all sides with barricades or fences, as appropriate to prevent personnel or visitors from falling into the excavation. If barricades are used, they must be spaced no more than 20 feet apart and shall not be less than 35 inches high when erected. A yellow of yellow and black tape, at least 0.75 inches wide, will be stretched between the barricaded.

Excavations must be inspected daily by the Contractor's Health and Safety Officer. If evidence for potential cave-ins or slides is apparent, all work in the excavation must be suspended until necessary steps have been taken to safeguard the on-site workers.
4.5 **Noise Hazard**

During start-up and operation of excavating and loading operations, the potential exists for exposure to excessive noise. Permanent hearing loss is due to the intensity and frequency distribution of the noise, the time pattern and duration of exposure, and individual susceptibility. Sound level (noise) is measured in decibels (dBAs). The Threshold Limit Values for noise exposure is 85 dBAs for an 8 hour duration and 90 dBAs for a 4 hour duration.

4.6 **Heat Stress Hazard**

When temperature exceed 70 degrees F take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds as early as possible in the rest period. If the pulse rate exceed 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.

5.0 **GENERAL HEALTH AND SAFETY REQUIREMENTS**

5.1 **Medical Clearance and Monitoring**

All project personnel who may be required to wear respirators must provide evidence that they have been cleared by a physician to do so. All full-time employees of Ancon are to be active participants in the Ancon Medical Surveillance Program. That includes blood lead level testing.

5.2 **Safety Orientation Meeting**

All field personnel (from Ancon and its subcontractors) must attend a safety orientation meeting before commencing the field work. The meeting will be scheduled and conducted by the Project Manager of the Site Safety Officer. The meeting will include distribution of the Health and Safety Plan to each field person covered by this plan, presentation of the Health and Safety Plan, and signature of the waiver by each person covered by this plan.

5.2.1 **Safety Training**

Under 29CFR 1910.120 (e), all field personnel are to have passed 40 hours of
Health and Safety training course and if necessary eight hours of supervisory training.

5.3 **Work Zone**

A restricted access work zone will be maintained to a distance of approximately 25 feet from each work area. Protective clothing and equipment, as described below in Subsection 5.4, are to be restricted zone is to be delineated by fence barriers and/or caution tape.

5.4 **Protective Equipment and Clothing**

The cost estimate contained within this proposal is based on level "D" personal protection measures. Should the Consultant decide site conditions warrant more cautious or stringent safety precautions, the Consultant will automatically implement a higher degree of safety (level C). If the outlined scope of work cannot be completed in level D conditions, the Consultant will notify the Client in writing of the more stringent safety conditions.

5.4.1 Equipment Required for Field Personnel:

- Hard hat;
- Safety goggles or glasses;
- Coveralls (disposable);
- Boots (water-proof with steel toes);
- Gloves (latex and/or nitrile).

5.4.2 Equipment Required to be Available on Site During Operations

- Earplugs for each field person;
- First-aid kit with eye wash;
- Construction tape and barriers to delineate work zone;
• A vehicle with keys in the ignition must be kept on site when personnel are working, for the transport of slightly injured personnel to the hospital. Severely injured personnel **MUST ONLY** be transported by paramedics;

• Fire extinguishers in site vehicles and in work zone(s).

5.4.3 Equipment Required to be available on site during Cleaning/Loading Operations

• One respirator per person (half-mask with disposable organic vapor-dust/mist cartridges);

• Earplugs for each field person;

• First-aid kit with eye wash;

• Construction tape and barriers to delineate work zone;

• A vehicle with keys in the ignition must be kept on site when personnel are working, for the transport of slightly injured personnel to the hospital. Severely injured personnel **MUST ONLY** be transported by paramedics;

• Fire extinguishers in site vehicles and in work zone(s).

5.4.4 Supplied Air Respirator Usage

Supplied air respirator use is not applicable at this site

5.4.5 Earplug Usage

The project safety officer and/or the project manager is responsible for deciding if earplug use should be routine or based on noise monitoring measurements. Consistent noise level readings in excess of 85 dBAs will be used to implement hearing protection controls. The subcontractor is responsible to provide earplugs for their employees.

5.4.6 Buddy System

All field personnel are to work with another person at the site. The subcontractor’s representative can service as the second person while the work is being conducted
in the field. Under no circumstances are field personnel to work alone at the site while conducting field activities.

5.4.7 CONDITIONS REQUIRED FOR UPGRADE TO LEVEL B

Upgrade to level B personal protective equipment will be implemented if organic vapor levels exceed the 8 hour TWA valves for the contaminants encountered.

6.0 VOC MONITORING

The VOC concentration (as measure by the OVM) in the breathing zone of the individual working closest to the vapor source must be monitored. Respirators must be donned if the concentration averages 10 ppm above background levels. Work must stop if the concentration 10 ppm above background levels and the procedures described in Subsection 5.4.3 are to be followed prior to restarting the job operations.

7.0 NOISE LEVEL MONITORING

Noise Level Monitoring will not be required at this site.

8.0 EMERGENCY RESPONSE PROCEDURES

8.1 Physical Injury

In the event of an accident resulting in physical injury, apply emergency first aid only and call paramedics. Severely injured personnel are to be transported only by paramedics and/or by ambulance personnel. At the hospital, a physician's attention is mandatory regardless of how serious the injury appears. The Project Safety Officer and the Project Manager are to be notified by the Site Safety Officer as soon after the injury as practical regarding the nature of the accident. A written report is also to be prepared by the Site Safety Officer.

8.2 Emergency Telephone Numbers

Fire Department .......................................................... 911

Police Department ...................................................... 911
8.3 **Work Site Address**

3459 Long Beach Blvd.
Long Beach, California

8.4 **Emergency Room Address and Route**

- ADDRESS Long Beach Memorial Medical Center
  2801 Atlantic Avenue
  Long Beach, California 90801

- PHONE (310) 633-9162

- ROUTE
  - Right (south) on Long Beach Blvd. - 1 Block
  - Left on Wardlow - 1/4 mile
  - Right on Atlantic - 1/2 mile to hospital

9.0 **SAFETY AWARENESS**

A practical safety program consists of not only of written procedures, but also of the application of a great deal of common sense, judgement, and technical analysis. While all employees are required to adhere to procedures presented in this document, this health and safety plan stresses the importance of maintaining a high level of awareness. This involves constant vigilance for unsafe or potential hazardous conditions or practices, and immediate corrective action.

Employees are encouraged to ask questions about any field conditions or situations about which they are uncertain or uncomfortable. Field conditions may be discovered which were unknown when the project was planned or implemented.
Safety awareness also includes personal observation of fellow workers. Some indications of possible exposure to hazardous or toxic chemicals are the following symptoms:

- Headaches
- Dizziness
- Blurred vision
- Cramps
- Irritation of eyes, skin, or respiratory tract
- Changes in complexion, skin discoloration
- Changes in coordination
- Excessive salivation, pupillary response
- Changes in speech pattern

10.0 PROJECT PERSONNEL

Ancon Marine, Incorporated

Project Manager - Dale Striefer

Project Safety Officer - Jerry Neat

Site Safety Officer - Dale Striefer

Field Personnel - To be designated
TABLE C-1
POTENTIALLY HAZARDOUS MATERIALS AT THE SITE

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<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>BRIEF DESCRIPTION</th>
<th>EXPOSURE LIMIT</th>
<th>PATHWAY (1)</th>
<th>AGENCY (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>Colorless to red liquid with a petroleum odor</td>
<td>300 ppm</td>
<td>INH</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Benzene(3)</td>
<td>Colorless liquid with an aromatic odor</td>
<td>10 ppm</td>
<td>INH, ING, CON</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Toluene</td>
<td>Colorless liquid with an aromatic odor like benzene</td>
<td>100 ppm</td>
<td>INH, ING</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Xylene Isomer</td>
<td>Colorless liquid with an aromatic odor</td>
<td>100 ppm</td>
<td>INH, ING</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Diesel</td>
<td>Colorless to light amber liquid with a hydrocarbon-like odor</td>
<td>None established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES:

1) Exposure Pathways:  
   INH = Inhalation  
   ABS = Skin absorption  
   ING = Ingestion  
   CON = Skin and/or eye contact

2) Agency with Exposure Limits:  
   ACGIH = American Conference of Governmental Industrial Hygienists  
   OSHA = Occupational Safety and Health Administration

3) Suspect Human Carcinogen.
January 16, 1992

Angen Marina Inc
1010 Cabrillo Avenue
San Pedro, CA 90731

Attention: Dale Strieter

(310) 548-8338
APPLICATION NO. 260173
COMPANY ID 82613

RULE 1166 CONTAMINATED SOIL MITIGATION PLAN
NOTIFICATION NO. EL94-0191

Reference is made to your Application (A/N 260173) received on December 26, 1991, for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

Your excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions:

PLAN CONDITIONS:

1. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS WHICH HAVE STORED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER SHALL BE NOTIFIED OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(A) AND THE NAME OF THE COMPANY PERFORMING THE EXCAVATION.

IF VOC-CONTAMINATED SOIL IS DETECTED, THE EXECUTIVE OFFICER SHALL BE NOTIFIED AGAIN WITHIN 24 HOURS. BOTH NOTIFICATIONS SHALL BE MADE BY CALLING (310) 403-6000, MONDAY THROUGH FRIDAY, BETWEEN 8 A.M. AND 5 P.M.

2. THIS PLAN IS VALID ONLY FOR THE EXCAVATION AND HANDLING OF A MAXIMUM OF 2000 CUBIC YARDS OF VOC-CONTAMINATED SOIL AT EACH SITE. EXCAVATION OF A GREATER AMOUNT REQUIRES SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.
3. ALL VOC-CONTAMINATED SOIL SHALL BE DISPOSED, BACKFILLED, OR REMOVED FROM THE SITE WITHIN 40 DAYS AFTER IT HAS BEEN EXCAVATED FROM THE AFFECTED AREAS.

RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

4. THE OWNER OR OPERATOR SHALL PREPARE A WRITTEN PLAN WHICH INCLUDES METHODS TO TREAT THE VOC-CONTAMINATED SOIL, SCHEDULES TO HAUL THE SOIL AWAY, BACKFILL THE SOIL, OR OTHER MEANS OF DISPOSAL. THE PLAN SHALL ALSO INDICATE THAT THE NECESSARY PERMITS HAVE BEEN OBTAINED OR ARE IN THE PROCESS OF BEING OBTAINED. SUCH A PLAN SHALL BE PREPARED NO LATER THAN 5 DAYS AFTER THE COMPLETION OF THE EXCAVATION, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

5. THE EXCAVATION SHALL BE CONDUCTED IN 50 FT. X 50 FT. OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL POTENTIALLY CONTAMINATED WITH VOC.

6. THE EXCAVATION OPERATOR SHALL HAVE ON SITE AN ORGANIC VAPOR ANALYZER (OVA) USING FLAME IONIZATION OR PHOTO IONIZATION OR OTHER ANALYTICAL METHODS COMPLYING WITH 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3.1.1.a, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS".

7. THE OVA SHALL BE CAPABLE OF BEING CALIBRATED USING HEXANE AT A RANGE OF 0 PARTS PER MILLION BY VOLUME (PPMV) TO 50 PPMV AND AT A DETECTION RANGE OF AT LEAST 30 PPMV TO 1100 PPMV. THE OVA SHALL BE INITIALLY CALIBRATED USING HEXANE BY THE MANUFACTURER AND CALIBRATED AT LEAST ONCE AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER.

8. DURING EXCAVATION, MONITORING SHALL BE CONDUCTED TO MEASURE VOC'S AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE FRESHLY DUG SOIL BY USING AN ORGANIC VAPOR ANALYZER (OVA) DESCRIBED UNDER CONDITION 7. THIS MEASUREMENT SHALL BE MADE FOR EVERY LOAD OF SOIL AND SHALL BE TAKEN NO LONGER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.

9. WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. A TYPICAL FORMAT IS ATTACHED WITH THIS PLAN.

10. VOC-CONTAMINATED SOIL IS A SOIL WHICH REGISTERS 50 PPMV OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED USING HEXANE) AT A DISTANCE OF NO MORE THAN THREE INCHES ABOVE EXCAVATED AND EXPOSED SOIL.
11. IF THE OVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000 PPMV,

A) THE WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER, OR COVERED WITH CLEAN SOIL OR TREATED WITH A DISTRICT APPROVED SUPPRESSANT, AND

B) EACH VOC-CONTAMINATED LOAD OF SOIL SHALL BE SPRAYED WITH WATER OR TREATED WITH A DISTRICT APPROVED VAPOR SUPPRESSANT AND BE STOCKPILED SEPARATELY.

12. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPMV,

A) THE WORKING AREA SHALL BE SPRAYED WITH WATER OR DISTRICT APPROVED VAPOR SUPPRESSANTS OR COVERED WITH AT LEAST 4 INCHES OF CLEAN SOIL, AND

B) THE SOIL DUG UNDER THE ABOVE CONDITIONS SHALL BE STORED IN DISTRICT APPROVED CONTAINERS, AND

C) IN LIEU OF CONTAINERS, OTHER MITIGATION MEASURES MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL OF THE EXECUTIVE OFFICER, IF THE OWNER OR OPERATOR CAN DEMONSTRATE THAT AN ALTERNATIVE MEASURE IS EQUALLY OR MORE EFFECTIVE IN REDUCING VOC EMISSIONS. PRIOR TO THE EXECUTIVE OFFICER’S APPROVAL, THE OWNER OR OPERATOR SHALL SUBMIT A COMPREHENSIVE WRITTEN STUDY WHICH COMPARES QUANTITATIVELY THE ESTIMATED VOC EMISSIONS DIFFERENCE BETWEEN THE ALTERNATIVE MITIGATION MEASURES.

13. ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED SEPARATELY FROM NON VOC-CONTAMINATED SOIL AND KEPT MOIST, COVERED OR SPRAYED WITH WATER OR WITH A FUME SUPPRESSANT TO PREVENT EMISSIONS OF PARTICulates OR VOC.

14. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COVERED WITH A HEAVY DUTY CONTINUOUS PLASTIC SHEET(S), JOINED AT THE SEAMS, AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

15. A STOCKPILE SHALL NOT CONTAIN MORE THAN 450 CUBIC YARDS OF SOIL.

16. WITHIN 5 DAYS AFTER THE EXCAVATION IS COMPLETED AT EACH SITE, THE WRITTEN RECORDS UNDER CONDITIONS 4 AND 9 SHALL BE SUBMITTED TO THE DISTRICT AT THE FOLLOWING ADDRESS.

SCAQMD
ENFORCEMENT DIV.
21865 E. Copley DR.
Diamond Bar, CA. 91765-4182
17. VOC-CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE TO CAUSE THE EVAPORATION OF UNCONTROLLED VOC TO THE ATMOSPHERE.

18. THIS PLAN IS NOT VALID FOR EXCAVATING VOC-CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

19. THIS PLAN DOES NOT ALLOW ANY TREATMENT OF VOC-CONTAMINATED SOIL.

20. A COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE DURING ALL SOIL HANDLING AND STORAGE PROCESSES.

21. THIS PLAN IS NOT VALID UNTIL THE VERIFICATION BELOW IS SIGNED.

Owners Representative
I __________, AM THE OWNER OF THE PROPERTY
LOCATED AT ____________ (SITE OF THE EXCAVATION). I VERIFY THAT I HAVE READ, UNDERSTOOD, AND INITIALED EACH CONDITION OF THIS PLAN.

SIGNED ____________

DATE ____________

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this plan, please call Mr. Arthur Lawler at (714) 396-2533.

Very truly yours,

George Rhett
Supervising A. Q. Engineer

AL R1166VXE
cc: Ben Shaw, Enforcement, Data Management Branch
**SITE INFORMATION**
OWNER: J.D. CATHHERZ  
ADDRESS: 3459 L.B. BLVD  
CITY: LONG BEACH  
ZIP CODE: 90807  
DATE OF EXCAVATION: 12-20-94

**MONITORING INFORMATION**
COMPANY: ANCON MARINE  
NAME OF PERSON: Andy Chavez  
MONITOR MFG: HNU  
MODEL NO: PI 101  
CALIBRATION GAS: ISOBUTYLENE

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOC CONCENTRATION (ppmv)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EACH LOAD AS REMOVED</td>
<td>STOCKPILE SURFACE</td>
</tr>
<tr>
<td>0730</td>
<td>φ</td>
<td>φ</td>
</tr>
<tr>
<td>0745</td>
<td>φ</td>
<td>φ</td>
</tr>
<tr>
<td>0800</td>
<td>φ</td>
<td>φ</td>
</tr>
<tr>
<td>0815</td>
<td>φ</td>
<td>φ</td>
</tr>
</tbody>
</table>

**SIGNATURE:** Andy Chavez  
**DATE:** 12-20-94
WILMINGTON EQUIPMENT SALES, INC.
821 SIGSBEE
WILMINGTON, CA. 90744
TEL: (310) 437-1285  (310) 436-8545

CERTIFICATE OF DESTRUCTION

DATE:  12-21-94

TO:  Ancon Marine, Inc
    1010 S. Cabrillo Ave
    San Pedro  CA 90731

REFERENCE:  1 550 gallons steel tank

ORIGIN:  J. D. Cathers
         3459 Long Beach Blvd
         Long Beach. California

TO WHOM IT MAY CONCERN:

This is to certify that we have properly disposed of
the above mentioned items.

THANK YOU.  [Signature]
### UNIFORM HAZARDOUS WASTE MANIFEST

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator's Name and Mailing Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J.D. CATHERS</td>
<td>96 GENERAL DELIVERY</td>
<td></td>
</tr>
<tr>
<td>213 502-0333</td>
<td>93007018</td>
<td></td>
</tr>
<tr>
<td>ANCON MARINE</td>
<td>CA0980737068</td>
<td></td>
</tr>
<tr>
<td>2000 N. ALAMEDA ST.</td>
<td>310-548-8351</td>
<td></td>
</tr>
<tr>
<td>COMPTON, CA 90222</td>
<td></td>
<td></td>
</tr>
<tr>
<td>土 F. Facility Name and Site Address</td>
<td>10. US EPA ID Number</td>
<td></td>
</tr>
<tr>
<td>DEMENNO KERDOON</td>
<td>5A80013352</td>
<td></td>
</tr>
<tr>
<td>930-537-7100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;NON RCRA HAZARDOUS WASTE LIQUID (WATER + HYDROCARBON)&quot;</td>
<td>001</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Additional Descriptions for Materials Listed Above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNDERGROUND STORAGE TANK RINSDATE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USE PROPER PERSONAL PROTECTIVE EQUIPMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMERGENCY PHONE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANCON JOB 3020482</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANCON P.O. 32575</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
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</tr>
<tr>
<td>d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printed/Typed Name</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Printed/Typed Name</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Printed/Typed Name</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Printed/Typed Name</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Quantity discrepancy greater than 10% variation reconciled with generator</td>
<td>with</td>
<td></td>
</tr>
<tr>
<td>Quantity of ANCON Received</td>
<td>307 gallons</td>
<td></td>
</tr>
</tbody>
</table>

DO NOT WRITE BELOW THIS LINE.

Yellow. TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)
Certificate of Treatment/Recycling

ISSUED TO
S.D. Cathers 4/o General Delivery
FOR

MANIFEST NUMBER 93007016 DATE RECEIVED 12-20-94

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California corporation, by the California Department of Health Services, in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON
"Compliance Through Recycling"

By:  
Cyrus Pourhassanian
Laboratory Manager

2000 NORTH ALAMEDA STREET □ COMPTON □ CALIFORNIA □ 90222
(213) 537-7100 □ FACSIMILE (213) 639-2946
APPENDIX B

ANALYTICAL RESULTS AND

CHAIN OF CUSTODY
<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>DATE</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>12/20/94</td>
<td>2:05</td>
<td></td>
</tr>
<tr>
<td>#2</td>
<td></td>
<td></td>
<td>Spoils</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8015m</td>
</tr>
<tr>
<td>x</td>
</tr>
<tr>
<td>8020</td>
</tr>
<tr>
<td>x</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>NUMBER OF CONTAINERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>Control #1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLERS (SIGNATURE)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RELINQUISHED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen L. Rush</td>
</tr>
<tr>
<td>SIGNATURE</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PRINTED NAME</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>COMPANY</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RECEIVED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>TOTAL NUMBER OF CONTAINERS</th>
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</thead>
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<table>
<thead>
<tr>
<th>SAMPLE CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECEIVED ON ICE</td>
</tr>
<tr>
<td>YES</td>
</tr>
<tr>
<td>SEALLED</td>
</tr>
<tr>
<td>YES</td>
</tr>
</tbody>
</table>

| SPECIAL SHIEMENT / HANDLING OR STORAGE REQUIREMENTS: |
|                                                     |
CLIENT: Cather Oil  
3459 Long Beach Blvd.  
Long Beach, CA 90802  
ATTN: James D. Cathers  

REPORT DATE: Dec. 22, 1994  
RECEIVED: Dec. 20, 1994  
LABORATORY NUMBER: 77260-1  
DATE ANALYZED: 12/20/94  

INVESTIGATION: Purgeable Organics (Volatiles) by EPA 8020  
GC-PID  

RESULTS  

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Detection* Limit (µg/kg)</th>
<th>Concentration** (µg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Toluene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Xylenes</td>
<td>5.0</td>
<td>ND</td>
</tr>
</tbody>
</table>

* Detection limits may vary with the type of sample and with the concentrations of other species present.  

** ND = Not detected, below detection limit.  

Respectfully Submitted,  
Truesdail Laboratories, Inc.  

Julia Nayberg, Manager  
Water and Waste Laboratory  

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparent identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.
CLIENT: Cather Oil
3459 Long Beach Blvd.
Long Beach, CA 90802
ATTN: James D. Cathers

REPORT DATE: Dec. 22, 1994
RECEIVED: Dec. 20, 1994
LABORATORY NUMBER: 77260-2
DATE ANALYZED: 12/20/94

INVESTIGATION: Purgeable Organics (Volatiles) by EPA 8020
GC-PID

RESULTS

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Detection Limit (µg/kg)</th>
<th>Concentration (µg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Toluene</td>
<td>5.0</td>
<td>ND</td>
</tr>
<tr>
<td>Xylenes</td>
<td>5.0</td>
<td>ND</td>
</tr>
</tbody>
</table>

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully Submitted,
Truesdail Laboratories, Inc.

Julia Nayberg, Manager
Water and Waste Laboratory

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Investigation: Analysis for Total Petroleum and Hydrocarbons per EPA Method 8015m

RESULT

<table>
<thead>
<tr>
<th>SAMPLE I.D.</th>
<th>DETECTION LIMIT</th>
<th>CONCENTRATION, ug/g</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Gas</td>
</tr>
<tr>
<td>#1 Below Tank</td>
<td>19.8</td>
<td>ND</td>
</tr>
<tr>
<td>#2 Spoils</td>
<td>18.7</td>
<td>ND</td>
</tr>
</tbody>
</table>

**ND = Not detected, below detection limit.

Respectfully Submitted,
Truesdale Laboratories, Inc.

[Signature]

Julia Nayberg, Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising of publicity matter without prior written authorization from these Laboratories.
February 6, 1995

Mr. James D. Cather
2292 Long Beach Boulevard
Long Beach, CA 90807

Re: 3459 Long Beach Boulevard, Long Beach

Dear Mr. Cather:

The Long Beach Department of Health and Human Services has received the results of soil analysis associated with the removal of one (1) 550 gallon underground storage tank on December 20, 1994, located at the above referenced site.

Based on the results of the samples, no further action will be required by this Department.

If any further information is required, please contact Robert Hunt at 310/570-4138, Environmental Health, between the hours of 8:00 a.m. and 9:30 a.m., or 4:00 p.m. to 5:00 p.m., Monday through Friday.

Sincerely,

Richard E. Smith, R.E.H.S., M.P.H.
Hazardous Waste Operations Officer

RS/da

cc: Long Beach Fire Prevention Bureau
Ancon Marine, Inc.

sat:1
CITY OF LONG BEACH
DIVISION OF FIRE—DEPARTMENT OF PUBLIC SAFETY
Bureau of Fire Prevention, 341 Pacific Avenue, Telephone 646-534

FLAMMABLE LIQUIDS PERMIT

PERMIT FOR STORAGE, USE, AND HANDLING OF FLAMMABLE LIQUIDS IN ACCORDANCE WITH
ORDER No. C-939, CHAPTER

CLASS OF LIQUID

DATE ISSUED: May 31, 1944

YES

I HEREBY REQUEST PERMISSION TO:

INSTALL: Yes
TANK: 1-550
UNDERGROUND: Yes

REPAIR: ______ PUMP: ______ ABOVEROUND: ______

REMOVAL: ______ PIPING: ______ CAPACITY: 550 Gallon

TO BE USED IN CONNECTION WITH:
Pvt Service Station

LOCATION: 5450 American Ave.

REMARKS:
To service his own trucks in connection with work in the oil fields

TOTAL GALLONS OF FLAMMABLE LIQUID STORED AT THIS ADDRESS: ______ Gallons.

W S
Pump New Tank Existing Tank

APPLICANT: J. D. Cather

By: E. D. Ballan
ADDRESS: Long Beach
TELEPHONE: 424-1069

PERMIT ISSUED
Fire Prevention

This tank is in. Please send removal info to: 1/30/92

Don—
629 South Hill Street
Los Angeles, California
April 16, 1937.

Mr. Len Owens, Contractor,
Route 1, Box 143 J,
Lomita, Calif.

Dear Sir:

Your report of abandonment of Wood-Callahan Oil Co., Ltd., well No. 4, Sec. 13, T. 4 S., R. 13 W., S. B. B. & W., Long Beach oil field, Los Angeles County, dated April 2, 1937, and submitted to this Division on our form 102, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have now been fulfilled.

Yours truly,

R. D. Bush
State Oil and Gas Supervisor

[Signature]
Deputy Supervisor.

CG - Wood-Callahan Oil Co., Ltd.
Mr. R. D. Bush
Long Beach

WJC:EMS
RECEIPT IS HEREBY ACKNOWLEDGED OF FINAL REPORT OF ABANDONMENT

DISTRICT NO. 1, DATED April 16, 1937

Well No. 4

Wood-Callahan Oil Co., Ltd.

Sec. 14, T. 4 S., R. 13 W., S.B.B. & M.
**Subsequent Work Report**

**Operator:** Wood-Calahan Oil Co., Ltd.  
**Field:** Long Beach

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In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated 

Signed: [Signature]

Date: April 2, 1937  
Title: Contractor

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

**1937**

- **Feb. 11:** Hole could not be cleaned out below 6444'. Bailier showed iron marks. Dumped 6 sax cement 6444'. This filled to 6328'.
- **13-15:** Shot and pulled 4-3/4" pipe from 3454'.
- **19:** Placed 4 sax Victor on 4-3/4" stub. Found top at 3427'.
- **20-21:** Shot 6-1/4" loose with collar shot at 1506' and pulled.
- **21:** Dumped 7 sax Victor at 1506', filled to 1484'.
- **23:** Shot 6-1/4" at 695', 665' and 554' where it came loose and was pulled.
- **25:** Placed 18 sax Victor at 554'. Located top at 536'. Hole capped at surface and abandoned.
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T. 1-31783

Los Angeles, Calif. March 18, 1937.

Mr. Len Owens, Lomita, Calif.

Agent for LEN OWENS, CONTRACTOR.

Dear Sir:

WOODBELL CALLAHAN OIL CO., LTD.

Operations at your well No. 4, Sec. 13, T. 4 S., R. 13 W., S. E. B. & M., Long Beach Field, in Los Angeles County, were witnessed by R. H. Wells, a representative of the supervisor, on February 26, 1937. There was also present, Len Owens, Contractor, and

H. Owens, Helper.

Casing Record: 15½" casing, 71½ ft; 8½" casing, 4281½ ft, W.S.O., shot 4260½-4271½, pulled from 554½, 6½" casing, 4766½, W.S.O., pulled from 1506½; 4½" casing, 5610½, W.S.O., pulled from 345½; 3" liner ld. 6386½-7512½, perf. 6581½-7512½, collapsed at 644½; T.D. 7546½, plugged with cement 644½-6328½, 345½-3427½, 1506½-1484½, and *

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 554½ to 536½ in the process of abandonment.

The data and conclusions are as follows:

*554½-536½.

ENGINEER PERCIVAL VISITED THE WELL AT 1:00 P.M. ON FEBRUARY 23, 1937, AND NOTED THAT THE 8½" casing was shot at 695½, 665½ and shot loose at 554½.

ENGINEER CROW Visited THE WELL AT 2:00 P.M. ON FEBRUARY 25, 1937, AND NOTED THAT 18 sacks of Victor construction cement was on hand and that cementing operations were commenced at 554½.

THE INSPECTOR ARRIVED AT THE WELL AT 9:15 A.M. ON FEBRUARY 26, 1937, AND MR. OWENS REPORTED THE FOLLOWING:

1. On February 25, 1937, a total of 18 sacks of Victor construction cement was dumped in stages beginning at 554½.

2. The top of the cement was located at 536½.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 536½ and brought up a sample of set cement.

The test was completed at 9:30 a.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 536½ ARE APPROVED.

cc-Wood-Bell Callahan Oil Co., Ltd.

R. D. BUSH
State Oil and Gas Supervisor
By
Mr. Len Owens,

Lomita, Calif.

LEN OWENS, CONTRACTOR

Dear Sir:

WOOD-CALLAHAN OIL COMPANY, LTD.

Operations at well No. 1416, Sec. 13, T. 13 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, representative of the supervisor, on February 23, 1937. There was also present L. Owens, Contractor, and H. Owens, Driller.

Casing Record

<table>
<thead>
<tr>
<th>Casing</th>
<th>Length</th>
<th>W.S.O.</th>
<th>Junk (1st hole)</th>
<th>Spear and socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 1/2&quot;</td>
<td>714'</td>
<td>4281'</td>
<td>4260' - 4281'</td>
<td>62&quot;, 4265' - 4444'</td>
</tr>
<tr>
<td>8 1/2&quot;</td>
<td>4766'</td>
<td>W.S.O.</td>
<td>4260' - 4270'</td>
<td>top 4268'</td>
</tr>
<tr>
<td>6 1/2&quot;</td>
<td>6401'</td>
<td>W.S.O.</td>
<td>6410'</td>
<td>T.D. 4444'</td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>6386' - 7512'</td>
<td>perf. 6581' - 7512'</td>
<td>6444' - 6328'</td>
<td></td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>3427'</td>
<td>1506' - 1484'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The operations were performed for the purpose of testing the location and hardness of a cement plug proposed to be placed on the stub of the 6 1/2" casing in the process of abandonment, and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 9:00 A.M. AND MR. L. OWENS REPORTED THE FOLLOWING:

1. The 6 1/2" casing was shot and pulled from 1506'.
2. 7 sacks of Victor cement was dumped on a wooden plug driven into the stub of the 6 1/2" casing at 1506'.

ENGINEER PEIRCE NOTED THAT the bailer could not be spudded below 1484' and brought up a sample of set cement.

The test was completed at 9:30 a.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 1484' ARE APPROVED.

cc - Company
Long Beach
GF: 10H

R. D. BUSH
State Oil and Gas Supervisor
By: [Signature] Deputy
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-31692

Los Angeles, Calif. March 4, 1937

Dear Sir:

Mr. Len Owens, Lomita, Calif.

Agent for LEN OWENS, CONTRACTOR

Operations at Wood-Callahan Oil Co. Ltd., Sec. 13, T. 4S., R. 13W., S. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, representative of the supervisor, on February 20, 1937. There was also present L. Owens, Contractor, and H. Owens, Driller.

Casing Record:
- 15⅝' cement 71½'; 24⅝' cement 4281'/W. S. O.; shot 4260'–4270'; 6½' cement 4766'/W. S. O.; 4–3/4' cement 6⅛' 4265'–44141', spear and 6410', W. S. O., pulled from 3454'; 3' liner landed 686'.
- Junk (1st hole) 2½' 4260'–4281'; 6386'–7512', perf. 6581'–7512', collapsed at 6441. T. D. 7546', plugged with cement 6441'–6328' and 3454'–3427'.

The operations were performed for the purpose of testing the location and hardness of a cement plug proposed to be placed on the stub of the 4–3/4' casing in the process of abandonment, and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 2:00 P. M., ON FEBRUARY 19, 1937, AND MR. L. OWENS REPORTED THAT THE 4–3/4' CASING WAS SHOT AND PULLED FROM 3454'.

THE ENGINEER NOTED THAT 4 sacks of Victor cement was dumped on a wooden plug driven into the stub of the 4–3/4' casing at 3454'.

ENGINEER PEIRCE ARRIVED AT THE WELL AT 9:30 A. M., ON FEBRUARY 20, 1937, AND NOTED that the bailer could not be spudded below 3427' and brought up a sample of set cement.

The test was completed at 10:15 a. m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 3427' ARE APPROVED.

cc: Company
    Long Beach
    GP: G

R. D. BUSH
State Oil and Gas Supervisor

By: Deputy
Mr. Len Owens,

Los Angeles, Calif. March 3, 1937

Dear Sir:

Operations at your well No. 4, Sec. 13, T. 48, R. 13 W. S. B. & M., Long Beach Field, in Los Angeles County, were witnessed by O. Peirce, representative of the supervisor, on February 12, 1937. There was also present Len Owens, Contractor, and H. Owens, Driller.

Casing Record: 15½" cam. 714'; 8½" cam. 4281' W. S. O.; Junk (1st hole) 8½" 4260' - 4270'; 6½" cam. 4766', W. S. O.; 4-3/4" cam. 4281'; 6½" 4265' - 4444', spear 6410', W. S. O.; 3" liner landed 6386' - 7512', perf. and socket top 4268'. T. D. 6581' - 7512', collapsed at 6444'. T. D. 7546', plugged 4444'.

With cement 6444' - 6328'.

The operations were performed for the purpose of testing the location and hardness of a cement plug proposed to be placed from 6444' to 6366' in the process of abandonment, and the data and conclusions are as follows:

The Inspector arrived at the well at 10:00 A.M., on February 11, 1937, and Mr. L. Owens reported the following:
1. The hole could not be cleaned out below 6444' because of collapsed casing at that point.

The Inspector noted the following:
1. The hole was open to 6444'.
2. Six sacks of Victor cement was dumped at 6444'.

The Inspector arrived at the well at 8:30 A.M., on February 12, 1937, and noted that the bailer could not be spudded below 6328' and brought up a sample of set cement. The test was completed at 9:30 A.M. The location and hardness of the cement plug at 6328' are approved.

cc: Company
Long Beach
GP:10

R. D. Bush
State Oil and Gas Supervisor
By [Signature] Deputy
Mr. Len Owens,

Lomita, Calif.

Dear Mr. Owens,

Your proposal to abandon Well No. 4, Wood-Callahan Oil Co. Ltd., Section 13, T. 14 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated Feb. 2, 1937, received Feb. 22, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

Records in addition to, or at variance with those shown in the notice:

The last production reported from this well was during 20 days in December, 1936, when the daily average yield was 2 1/2 bbl. of oil and 44 bbl. of water.

The Notice States:

The present condition of the well is as follows:

- 15 1/2" casing at 71 1/2'
- 8" casing, W. S. O., shot 4260' - 4270'.
- 6 1/2" casing at 6410', W. S. O.
- 3" liner landed 6386' - 7512', perf. 6581' - 7512', collapsed at 6444', T. D. 7546'.

Proposal:

The proposed work is as follows:

- Plug with cement from 6444' to 6366'
- Pull 4 3/4" casing from 4746', or above, and cap stub with 20' cement plug.
- Pull 6 1/2" casing from 4260', or above, and cap stub with 20' cement plug.
- Pull 8" casing from 694', or above, and cap stub with 20' cement plug.

Decision:

The proposal is approved provided that this division shall be notified to witness:

1. The placing of and the location and hardness of each cement plug.
2. The shooting or cutting of the 4 3/4", 6 1/2" and 8" casings.

Note: In approving the above proposal this division does not pass upon your right to enter upon this property, but merely approves the work as conforming to our requirements for abandonment.

Note: A complete report in duplicate on our form 102 should be filed with this division after the completion of the above work.

cc: Wood-Callahan Oil Co. Ltd.
Long Beach

R. D. Bush
State Oil and Gas Supervisor

By Deputy
Notice of Intention to Abandon Well
This notice must be given at least five days before work is to begin

Long Beach, Calif. Feb. 8, 1937

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 16, Chapter 718, Statutes of 1911, as amended, notice is hereby given that it is our intention to abandon well No. Wood-Callahan Oil Company ("Wood-Callahan") 4

Sec. 13, T. 4 S., R. 13 W., S. E. B. & M. Long Beach Field, Los Angeles County, commencing work on the day of 1937.

The present condition of the well is as follows:

15 1/2" cem. 714'
8 7/8" cem. 4281', W. S. 0., shot 4260' - 4270'
6 1/4" cem. 4766', W. S. 0.
4 3/4" cem. 6410', W. S. 0.

3" liner landed 6386' - 7512', perf. 6581' - 7512', collapsed at 6444'.

T. D. 7546'

The proposed work is as follows:

Plug with cement from 6444' to 6366'

Pull 4 3/4" casing from 4746', or above, and cap stub with 20' cement plug.

Pull 6 1/4" casing from 4260', or above, and cap stub with 20' cement plug.

Pull 8" casing from 694', or above, and cap stub with 20' cement plug.

Len Owens, Contractor
(Name of Operator)

By Len Owens

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
<table>
<thead>
<tr>
<th>DATE</th>
<th>MAKE OF BARREL</th>
<th>SIZE OF BARREL</th>
<th>FROM (DEPTH)</th>
<th>TO (DEPTH)</th>
<th>CORE RECOVERED</th>
<th>DESCRIPTION OF CORE</th>
<th>ETHER TEST</th>
<th>CONDITION OF CORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/30</td>
<td>Elliott 5</td>
<td>5 5/8</td>
<td>6347</td>
<td>6352</td>
<td>5&quot; 11&quot; gr. sd 6&quot; hd. br. shale</td>
<td>14&quot; gr. sd. 16&quot; br. shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/4</td>
<td></td>
<td></td>
<td>6366</td>
<td></td>
<td>9&quot; 87&quot; hr. br. sh-stk's hr. sd.</td>
<td>3&quot; 31&quot; hard br. shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/14</td>
<td></td>
<td></td>
<td>6375</td>
<td>6379</td>
<td>none</td>
<td>3&quot; sh-stk's sd. 14&quot; O.S. 11&quot; hd. sh. 3&quot; O.S. light cut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/15</td>
<td></td>
<td></td>
<td>6378</td>
<td>6383</td>
<td>15&quot; 122&quot; O.S. hd. good cut</td>
<td>3&quot; shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/17</td>
<td></td>
<td></td>
<td>6386</td>
<td>6401</td>
<td>20&quot; 22&quot; tough br. shale</td>
<td>31&quot; O.S. soft-good cut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/16</td>
<td></td>
<td></td>
<td>6408</td>
<td>6410</td>
<td>4&quot; 42&quot; O.S. 10'y br. sh.</td>
<td>28&quot; O.S. good cut</td>
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<td></td>
</tr>
<tr>
<td>4/4</td>
<td></td>
<td></td>
<td>6437</td>
<td>6441</td>
<td>6&quot; 3&quot; sh. &amp; O.S. 13&quot; O.S. 15&quot; hd. br. sh. 4&quot; O.S. good cut</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/4</td>
<td></td>
<td></td>
<td>6470</td>
<td>6476</td>
<td>2 1/2 3&quot; 12&quot; O.S. Good</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4/17</td>
<td></td>
<td></td>
<td>6676</td>
<td>6679</td>
<td>7&quot; 17&quot; rotten sh-9&quot; O.S. 4&quot; sh.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/19</td>
<td></td>
<td></td>
<td>6680</td>
<td></td>
<td>7&quot; O.S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/1</td>
<td></td>
<td></td>
<td>6680</td>
<td></td>
<td>2 1/2 12&quot; O.S. 10&quot; O.S. good cut</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/17</td>
<td></td>
<td></td>
<td>6719</td>
<td>6722</td>
<td>2&quot; 1&quot; hr. O.S. 1&quot; O.S. good cut</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4/25</td>
<td></td>
<td></td>
<td>6746</td>
<td>6840</td>
<td>2 1/2 35&quot; O.S. hard good cut</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6847</td>
<td>6849</td>
<td>2&quot; 36&quot; O.S. 6&quot; shell - 36&quot; O.S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6849</td>
<td>6859</td>
<td>2&quot; 4&quot; O.S. 2&quot; hr.br.sh. 7&quot; O.S.</td>
<td></td>
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</tr>
<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6860</td>
<td>6861</td>
<td>7&quot; 3&quot; Hr.br.sh. 2&quot;O.S.6&quot; hd.br.sh. soft head</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6861</td>
<td>6866</td>
<td>5&quot; 35&quot; O.S. light cut</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6866</td>
<td>6873</td>
<td>3&quot; 6&quot; soft sandy sh. 27&quot;O.S. Light cut</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4/26</td>
<td></td>
<td></td>
<td>6866</td>
<td>6873</td>
<td>2 1/2 36&quot; hr. O.S. light cut</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

FIELD: Long Beach, Calif.  
COMPANY: WOOD-CALLAHAN OIL CO. LTD.

Sec. T. R. B. & M., Well No. 4

In compliance with the provisions of Chapter 718, Statutes 1911, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated

Signed: WOOD-CALLAHAN OIL CO. LTD.

Date: April 8, 1931  
Title: ( Compile person, Secretary or Agent)

<table>
<thead>
<tr>
<th>Date</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1930</td>
<td>Pulled rods</td>
</tr>
<tr>
<td>Jan. 28-30</td>
<td>Unable to pull liner - made several cuts</td>
</tr>
<tr>
<td>Feb. 3-30</td>
<td>Unable to pull remaining 20 ft. started milling</td>
</tr>
<tr>
<td>Mar. 18</td>
<td>Broke Kelly off at swivel sub - all pipe recovered</td>
</tr>
<tr>
<td>May 2</td>
<td>Set bridge at 6460-with 11 sacks Santa Cruz</td>
</tr>
<tr>
<td>May 3</td>
<td>Mud test O. K.</td>
</tr>
<tr>
<td>4</td>
<td>Landed 6410 feet 4 3/4 A.F. 1 seamless 16 lb. casing</td>
</tr>
<tr>
<td>14</td>
<td>Shut off approved</td>
</tr>
<tr>
<td>19</td>
<td>Bare foot test made, approx 150 bbls. clean</td>
</tr>
<tr>
<td>21</td>
<td>Washing sand bridges out at 6480, Kelly parted</td>
</tr>
<tr>
<td>24</td>
<td>Recovered 2 1/2 drill pipe to 6382</td>
</tr>
<tr>
<td>28</td>
<td>Tore up string of left hand drill pipe</td>
</tr>
<tr>
<td>31</td>
<td>Packed off 4 3/4 casing to recover fish</td>
</tr>
<tr>
<td>31</td>
<td>Recovered fish to safety joint</td>
</tr>
<tr>
<td>31</td>
<td>Replaced 4 43/4 casing</td>
</tr>
<tr>
<td>June 3</td>
<td>Derrick floo. went down</td>
</tr>
<tr>
<td>4</td>
<td>New string of left hand</td>
</tr>
<tr>
<td>5</td>
<td>Unable to recover fish</td>
</tr>
<tr>
<td>6</td>
<td>Started milling</td>
</tr>
<tr>
<td>20</td>
<td>Fish milled 2 feet below 4 3/4, side tracked</td>
</tr>
<tr>
<td>July 17</td>
<td>Fish cemented to 6426</td>
</tr>
<tr>
<td>17</td>
<td>Rig shut down</td>
</tr>
<tr>
<td>Sept. 27</td>
<td>Started milling out cement by fish</td>
</tr>
<tr>
<td>23</td>
<td>Finished drilling at 7546</td>
</tr>
<tr>
<td>25</td>
<td>Landed 3&quot; inserted liner at 7512</td>
</tr>
<tr>
<td>29</td>
<td>Well on production</td>
</tr>
</tbody>
</table>

Well on production
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

FIELD: Long Beach, Calif.
COMPANY: Wood-Gallahan Oil Co. Ltd.
Sec.: 13, T. 4 S., R. 13 W., S. P., B. & M., Well No. 4

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated

Signed: Wood-Gallahan Oil Co. Ltd.

Date: April 8, 1931

<table>
<thead>
<tr>
<th>Depth Range</th>
<th>Description</th>
</tr>
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<tr>
<td>4829-4878</td>
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<td>5241-5243</td>
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</table>
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

FIELD................................................................................................................. COMPANY

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated , was filed.

Date.................................................................................................................. Title

5674-5685 tough shale 6218-6264 rotten shale
5685-5686 shell 6264-6268 sticky shale
5686-5687 hard sand 6268-6274 tough shale
5687-5689 shale 6274-6319 sandy shale
5689-5715 sandy shale-stks. h'd sand 6319-6324 tough shale
5715-5761 sandy shale 6324-6328 tough shale
5761-5763 sticky shale 6328-6333 hard tough shale
5763-5767 tough shale 6333-6341 sticky shale
5767-5793 tough shale-stks. h'd sand 6341-6342 shale
5793-5803 hard sandy shale & sand 6342-6345 sandy
5803-5814 tough shale-stks. h'd sand 6345-6347 tough shale
5814-5821 tough shale 6347-6352 shale & sand
5821-5839 sandy sh-stks h'd sand 6352-6356 tough shale
5839-5855 sandy shale & shell 6356-6361 shale
5855-5863 sandy shale-stks. h'd sand 6361-6366 shale-stks. of sand
5863-5865 hard sand 6366-6368 shale
5865-5883 sand- stk. hard sand 6368-6375 shale-stks. of sand
5883-5913 shale-stk. hard sand 6375-6378 dark brown shale & sand
5913-5915 hard sand 6378-6380 shale
5915-5960 tough shale 6380-6401 oil sand
5960-5966 tough shale & shell 6401-6403 brown shale
5966-5968 tough shale 6403-6410 hard shale
5968-5969 shell 6410-6418 tough shale-stks. of sand
5969-5973 shale 6418-6436 hard sand
5973-5975 hard sand 6436-6441 oil sand-stks. of shale
5975-5984 shale & shells 6441-6442 hard sand
5984-6017 sandy shale 6442-6468 sand & shells
6017-6019 tough shale 6468-6487 sand-stks. of shale
6019-6044 sandy shale-stks. sand 6487-6496 sand " " "
6044-6086 sandy shale 6496-6497 hard shell
6086-6104 sandy & stks. of hard 6497-6498 shell
6104-6132 sandy shale-stks. h'd shale 6498-6513 sand-stks. of shale
6132-6148 sandy shale 6513-6518 sticky shale
6148-6154 sticky shale 6518-6526 sand
6154-6167 sticky shale-stks of hard 6526-6546 sand-stks. of hard
6167-6173 tough shale 6546-6550 shell
6173-6178 tough shale 6550-6556 hard sand
6178-6218 sandy shale 6556-6566 sand & shells
6566-6568 sand
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL


In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated , was filed.

Signed: (President, Secretary or Agent)

Date: Title:

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<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
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<tr>
<td>6568-6572</td>
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<td>6577-6580</td>
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<td>sand-str. of hard</td>
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</tbody>
</table>
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

Company

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated , was filed.

Signed

Date

Title

(Title)

(President, Secretary or Agent)

6519-6520 hard sand
6520-6523 tough shale
6523-6533 tough-sticky shale
6533-6543 shale
6543-6547 shell
6547-6548 sand
6548-6547 sandy shale
6547-6551 tough shale
6551-6591 sand
6591-6597 tough shale
6597-6618 sandy shale
6618-6623 sand
6628-6638 sticky shale
6638-6659 hard sand
6639-6644 sandy shale
6644-6656 oil sand
6656-6661 sand & shale
6661-6668 sticky shale
6668-6670 sand
6670-6673 sticky shale
6673-6680 tough shale
6680-6690 sand
6690-6693 shale
6693-6719 sand & shale
6719-6819 cleaning out old hole
6819-6937 old hole
6937-6948 old hole
6948-6952 b. shale
6952-6956 tough shale
6956-6959 sand
6959-6960 shale
6960-6972 sand
6972-6984 sand-stks. shale
6984-7002 sand & shale
7002-7004 hard sand
7004-7009 oil sand
7009-7014 hard sand
7014-7015 hard sand
7015-7022 oil sand
7022-7025 shale
7025-7044 oil sand
7044-7047 sand
7047-7055 tough shale
7055-7060 hard sand
7060-7062 shell
7062-7085 hard sand
7085-7093 sand
7098-7105 sand
7105-7117 shale
7117-7118 shell
7118-7125 hard sand
7128-7130 shale
7130-7140 sand
7140-7150 hard sand
7150-7153 shale
7153-7155 hard sand
7155-7160 hard sand
7160-7165 sand
7165-7168 shale
7168-7174 sand
7174-7182 hard sand
7182-7202 sand
7202-7204 shale
7204-7207 hard sand
7207-7209 hard sand
7209-7231 sandy shale
7231-7250 hard sand
7240-7242 tough shale
7242-7245 shell
7245-7250 sand
7250-7285 sand
7285-7295 hard sand
7295-7300 shale
7300-7310 sand
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

FIELD

COMPANY

Sec., T., R. B. & M., Well No.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated , was filed.

Signed

Date

Title

(Chairman, Secretary or Agent)

7310-7312 tough shale
7312-7345 tough shale
7345-7348 sand
7348-7350 shell
7350-7364 hard sand
7364-7379 sand
7379-7383 hard sand
7383-7402 sand
7402-7403 shell
7403-7404 shale
7404-7405 shell
7405-7424 sand
7424-7426 shell
7426-7431 sand
7431-7435 shale
7435-7454 sand & shells
7454-7460 shale
7460-7465 hard sand
7465-7506 sand
7506-7507 shell
7507-7514 sand
7514-7520 sand
7520-7528 shale
7546.9 shale
RECEIPT IS ACKNOWLEDGED OF COPY OF LETTER

Dated January 30, 1931

Addressed to Wood-Callahan Oil Company, Ltd.

AUTHORIZING CHANGES IN NUMBERS OR DESIGNATIONS OF WELLS AS FOLLOWS:

On Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

Well No. "Wood-Callahan" 2 will hereafter be known as well No. 2.

Well No. "Wood-Callahan" 4 will hereafter be known as well No. 4.

Well No. "Leavesil" 1 will hereafter be known as well No. 5.

On Sec. 29, T. 4 S., R. 12 W., S. B. B. & M.

Well No. "S. S. Wortley" 2 will hereafter be known as well No. 6.

cc-Long Beach
MEMO FOR WELL RECORD.

Letter dated Jan. 19, 1931, to R. D. Bush, states that Wood-Callahan Oil Co. Ltd. is now the operator of Wood-Callahan Oil Co. wells Nos. 1 and "Wood-Callahan" 4, Sec. 13, 4 S., 13 W., Long Beach field, having acquired same on Mar. 27, 1930.

Copy of our letter is filed with record of well No. 1.
611 New Orpheum Building  
Los Angeles  
May 23, 1930.

Mr. J. W. Wood, Agent, 
Wood-Callahan Oil Company, 
3505 American Avenue, 
Long Beach, California.

Dear Sir:

Please refer to our report No. T-1-20723, dated May 16, 1930, covering well No. "Wood-Callahan" 4, Sec. 13, T. 4 S., R. 13 W., Long Beach field. The number of the report is incorrect and has been changed on our copy to T-1-20905. Please change your copy of the report accordingly.

Yours truly,

[Signature]
Deputy Supervisor

CC - Long Beach
Report on Test of Water Shut-off
(BAILING)

No. T. 1-20905

Los Angeles, Cal. May 16, 1930.

Mr. J. W. Wood,
Long Beach, Cal.

Agent for WOOD-CALLAHAN OIL Company

Dear Sir:

Your well No. "WOOD-CALLAHAN" 4, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Oil Field, in Los Angeles County, was tested for shut-off of water on May 14, 1930. Mr. Paul J. Howard, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present L. Callahan and J. W. Wood, Operators.

Location of water tested 4766' - 6410' and normal fluid level not reported. Depth and manner of water shut-off: 6410 ft. of 4 5/8 in. casing cemented with Santa Cruz shale with streaks of oil sand. Formation at 5/5/30 11/25 sacks cement by casing method. Water string was landed in 5-5/8" rotary hole. Casing record of well: 15 1/2" cemented 714'; 8 1/2" cemented 4281'; W.S.O. shot 4260'; 14270'; 6 1/2" cement 4766'; W.S.O.; 4 5/8" as above. Junk: 8 1/2" cemented 4260'; 4281'; 6 1/2" perf. liner 4265'; 4444', with a bulldog spear and combination socket inside 6 1/2" casing with top at 4265'.

Reported total depth of hole 5955 ft. Hole bridged from 6455 ft. to 6420 ft. Hole cleaned out to 6420 ft. for this test. At time of test depth of hole measured 6410 ft. and bailer brought up sample of oil sand and shale. At 2:00 a.m. May 14, 1930 oil bailed to no oil ft., drilling fluid (bailed & swabbed) to 3000 ft. At 2:00 p.m. May 14, 1930 top of oil found at no oil ft., top of fluid found at 2945 ft.

Result of test:

1. No casing test was made.
2. 6 1/2" of set cement was drilled out of the 4 5/8" casing, equivalent to 5 sacks.
3. The cement was not treated with quick setting chemical.

The inspector noted that the fluid rose 55' in 12 hr., equivalent to 1.8 bbl. per 24 hr.

The shut-off is approved.

cc-Company
Long Beach

cc: Company

R. D. BUSH
State Oil and Gas Supervisor

By [Signature] Deputy.
Mr. J. W. Wood,

142 Pine Ave., Long Beach, Cal.

WOOD-CALLAHAN OIL Company

Dear Sir:

According to the subjoined report of the deputy supervisor for District No. 1, your company has done certain work in the Long Beach oil field, Los Angeles County, without first filing a notice of such work with this Division.

Section 17, Chapter 718, Statutes of 1915, amended 1917, 1919, 1921, and 1929, reads in part as follows: "The owner or operator of any well referred to in this act shall, before commencing the work of drilling an oil or gas well, file with the supervisor, or his local deputy, a written notice of intention to commence drilling.

"After the completion of any well the provisions of this section shall also apply, as far as may be, to the deepening or redrilling of any well, or any operation involving the plugging of any well or any operations permanently altering in any manner the casing of any well;...."

Mr. R. D. Bush

State Oil and Gas Supervisor

Los Angeles, Cal. May 8, 1930.

This is to report that Company, operating at well No. 4, Section 13, T. 4 S., R. 13 W., S. B. B. & M., in Long Beach Oil Field, Los Angeles County, failed to submit notice of intention to redrill oil string & deepen as required by Section 17, Chapter 718, Statutes 1915, as amended.

Our usual report on proposed operations is therefore omitted and approval of the following described work, which is being performed without filing notice, is withheld.

Work being done uncompleted without filing notice:

8½" casing shot 4,260' to 4,270' and drilled out through 8½" casing to 6,955'.
Mr. R. D. Bush,
State Oil and Gas Supervisor,
San Francisco, California.

Dear Sir:


You will note that the 81/2" casing was shot at 4,260' and the well deepened to 6,955' without filing notice. We did not know that this work was going on until called upon on May 3 to witness a mud test after the well had been deepened to its completion depth. The company has since filed supplementary notice to deepen, which is covered in our report No. P-1-21694 dated May 7, 1930.

In view of the fact that this is the first offense I would recommend that the "N" report be issued in the usual manner, without further comment.

Yours truly,

[Signature]

Deputy Supervisor.
Special Report on Operations Witnessed

No. T-1-20848

Los Angeles, Cal. May 7, 1930

Mr. J. W. WOOD,

Long Beach, Cal.

Dear Sir:

Operations at your well No. "WOOD-CALLAHAN" 4 Section 13, T.14 S., R. 13 W., S.B.B. & M., Long Beach Oil Field, in Los Angeles County, were witnessed by Paul J. Howard, representative of the supervisor, on May 3, 1930. There was also present J. W. Wood, Operator, and

W. V. State Driller.

Casing Record: 15½" cement. 7½"; 8½" cement. 281½", W.A.O.; shot 4260'-4270'; 6½" cement. 4766'. W.A.O. T.D. present hole 6955'. Junk: 8½" 4260'-4941'; 6½" perf. liner 4265'-4888', with a bulldog spear and combination socket inside 6½" casing with the top at 4268'.

The operations were performed for the purpose of demonstrating that the formations between 4766' and 6413' were mudded until the loss was not more than 3 bbl. per hr.

and the data and conclusions are as follows:

MR. WOOD REPORTED THE FOLLOWING:
1. A 5-5/8" rotary hole was drilled from 4766' to 6955'.
2. A cement bridge was placed in the hole from 6465' to 6413'.
3. Mud fluid was circulated for 7 hr. prior to the test.
4. No record was kept of the loss of mud fluid prior to the test.
5. The drill pipe was hanging at 6408' during the test.
6. Cores were taken from the following important depths:
   6345' - 6375' shale.
   6375' - 6413' shale with streaks of oil sand.

THE INSPECTOR NOTED THE FOLLOWING:
1. During a circulation test from 12:30 p.m. to 1:00 p.m. mud fluid was lost from the pit at the rate of 2.5 bbl. per hr.
2. The drill pipe was lowered onto the cement bridge until the weight indicator showed a loss of 5 points.

THE MUDDLING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 4½" casing at 6413' is hereby confirmed.

cc-Company
Long Beach
P.O. Box 69

R. D. BUSH
State Oil and Gas Supervisor
By [Signature] Deputy
Dear Sir:

Your supplementary proposal to deepen Well No. "WOOD-CALLAHAN" 4 on Section 13, T. 3 N., R. 13 W., S. B. B. & M., Long Beach Oil Field, Los Angeles County, dated May 5, 1930, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

Records in addition to, or at variance with those shown in the notice:
- 15½" cement 714'
- 8½" " 4281', W.S.O. shot 4260'-4270'
- 6½" " 4766', W.S.O.
- T. D. 4824'
- Junk: 8½" 4260'-4281'
- 6½" perf liner 4265'-4270'
- Bulldog spear & combination socket inside 6½" casing, top at 4268'

THE NOTICE STATES:
- "The present condition of the well is as follows:
  - 713 feet 15½"
  - 4280 " 8½"
  - 4765 " 6½"
  - 4½" liner set at 4824"

PROPOSAL:
- "The proposed work is as follows:
  1. Pull liner
  2. Deepen to approx. 7000 feet
  3. Set bridge at about 6400
  4. Set full water string at depth determined by coring (4½ pipe)
  5. Cement with at least 125 sacks of cement
  6. Set 3" liner"

DECISION:
- THE PROPOSAL IS APPROVED PROVIDED THAT:
1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
3. The formations to be left back of the 4½" casing shall be mudded by open circulation until the loss is not more than 3 bbl. per hr.

CONTINUED ON PAGE 2

cc-Company
Long Beach
WJC:0H

R. D. BUSH
State Oil and Gas Supervisor

By: ________________________________ Deputy
4. The exact cementing depth for the 4\(\frac{1}{2}\)" casing shall be determined by careful coring, beginning not lower than 6350'.

5. The column of mud fluid back of the 4\(\frac{1}{2}\)" casing shall be maintained to the surface for at least 30 days after cementing this casing.

6. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   (a) Final mudding operations before cementing the 4\(\frac{1}{2}\)" casing.
   (b) Bailing test of the 4\(\frac{1}{2}\)" shut-off.
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Long Beach Cal. May 5 1930

Mr. E. Huguenin
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

Dear Sir:

In compliance with Section 17, Chapter 718, Statutes of 1911, as amended, notice is hereby given that it is our intention to commence the work of deepening, long Beach, Cal., Sec. 13, T. 4-S, R. 13-W, B. & M. Oil Field, Los Angeles County.

The present condition of the well is as follows:

713 feet 15½
4280 " 8½
4765 " 6½ liner set at 4824

The proposed work is as follows:

1. Pull liner
2. Deepen to approx. 7000 feet
3. Set bridge at about 6400
4. Set full water string at depth determined by coring (4½ pipe)
5. Cement with at least 125 sacks of cement
6. Set 3" liner

Respectfully yours

Wood, Callahan Oil Co.

Name of Company or Operator

By

Address Notice to Deputy State Oil and Gas Supervisor in Charge of District Where Well is Located
611 New Orpheum Bldg.
Los Angeles
April 25, 1930.

Mr. R. D. Bush,
State Oil and Gas Supervisor,
San Francisco, California.

Dear Sir:

Please refer to my letter of February 4, 1930
in regard to Wood-Callahan Oil Company being owner of Barry
Oil Association well No. 2, Sec. 13, T. 4 S., R. 13 W., S.B.B.& M.
Long Beach field, date of transfer being November 9, 1929.

I am advised by a letter dated April 22, 1930
from Wood-Callahan Oil Co. and confirmed by telephone conversation
with Barry Oil Association, that this well now called "Wood-Callahan"
4, was operated and produced by Barry Oil Association until
January 28, 1930, at which time Wood-Callahan Oil Co. pulled the
rods and started deepening operations. Therefore, the correct date
of transfer is January 28, 1930.

Our records have been changed accordingly.

Yours truly,

MC
cc- Long Beach

Deputy Supervisor.
April 22, 1930

Division of Oil & Gas
Los Angeles, Calif.

Gentlemen:

In reference to your letter of April 21st, will say that this well was produced by the Barry Oil Association until January 28th, at which time we pulled the rods and started deepening operations.

Yours very truly

WOOD-CALLAHAN OIL CO.

[Signature]

Wood-Callahan Oil Co.
3505 American Avenue
Long Beach, California
Oil New Orpheum Building
Los Angeles
April 21, 1930.

Wood-Callahan Oil Company,
35th & American Avenue,
Long Beach, California.

Gentlemen:

Please refer to letter dated April 11, 1930, written to you by Barry Oil Association regarding the filing of production reports for your well No. "Wood-Callahan" 4, Sec. 13, T. 4 S., R. 13 W., Long Beach field, which reports were filed and signed by Barry Oil Association, for the months of November and December, 1929, and January, 1930, when, as a matter of fact, your letter dated January 28, 1930, stated that you had taken said well over in November, 1929.

Will you please advise immediately whether the well actually was produced by Barry Oil Association until January 20, when you entered upon the property and commenced deepening operations.

Yours truly,

Deputy Supervisor.

RI:EMP
April 11th 1930

WOOD-CALLAHAN OIL COMPANY,
35th and American Avenue,
Long Beach, California.

Gentlemen:

The State Mining Bureau seem somewhat confused over the fact that although they had been notified that the Sawyer Well No. 2 had been taken over for deepening by you under date of November 29th 1929, the production of the above mentioned well up to the time of actual deepening operations, January 20th 1930, when actual rigging up began, had been reported by the BARRY OIL ASSOCIATION.

Will you, therefore, be kind enough to confirm in writing our statement over the telephone to them, that this well actually belonged to the Barry Oil Association up to January 20th 1930. The Mining Bureau has requested that we get in touch with you and have you confirm this statement to them in order that they may straighten out their records concerning this well.

Thanking you, we are,

Yours very truly,

BARRY OIL ASSOCIATION,

By [Signature]
Assistant Secretary
RECEIPT IS ACKNOWLEDGED OF COPY OF LETTER

Dated February 5, 1930

Addressed to Wood-Callahan Oil Company

AUTHORIZING CHANGES IN NUMBERS OR DESIGNATIONS OF WELLS AS FOLLOWS:

On Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

Well No. 2 of Harry Oil Association will hereafter be known as your well No. "Wood-Callahan" 4.

cc—Long Beach
WOOD-CALLAHAN OIL COMPANY,
3505 American Ave.,
Long Beach, Cal.

Gentlemen:

Your letter of January 28, relative to change in number of one of your wells in the Long Beach field, District No. 1, has been referred to me by Deputy Supervisor E. Huguenin, with the recommendation that the number be changed as you desire.

In accordance with Sec. 17, Chapter 718, Statutes of 1915, amended 1917, 1919, 1921, and 1929, reading in part as follows:

"the number or designation by which any well heretofore drilled has been known, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in number is hereby authorized as follows:

On Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

Well No. 2 of Barry Oil Association will hereafter be known as your well No. "Wood-Callahan" 4.

Yours truly,

R. D. Bush
State Oil and Gas Supervisor.

CC - Mr. E. Huguenin.
611 New Orpheum Building
Los Angeles
February 4, 1930

Mr. R. D. Bush,
State Oil and Gas Supervisor,
San Francisco, California.

Dear Sir:

Wood-Callahan Oil Company is now the owner of
Barry Oil Association well No. 2, Sec. 13, T. 4 S., R. 13 W.,
S. B. B. & M., Long Beach field, having acquired same by
transfer on November 9, 1929.

This information was contained in a letter dated
January 28, from Wood-Callahan Oil Company, and confirmed
by telephonic conversation with Mr. Henderson of Barry Oil
Association. Our records have been changed accordingly.

I am enclosing a copy of the letter from Wood-
Callahan Oil Company, wherein it is requested that this
well be known in the future as "Wood-Callahan #4." I
recommend that the request be granted.

Yours truly,

Deputy Supervisor.

RI: EMP
CC - Long Beach
January 28 1929

Mr. E. Huguenin
Orpheum Bldg.
Los Angeles, Calif.

Dear Sir:-

Please be advised that this company has just leased from Mr. Henderson of the Barry Oil Association a well known as Sawyer #2 and located on Lots 20-21-22 Block F Los Cerritos, in the city of Long Beach for the purpose of deepening.

We desire the name on the official records changed as follows: "WOOD-CALLAHAN #4"

Yours very truly

WOOD-CALLAHAN OIL CO.
Mr. M. H. Scyster,

BARRY OIL ASSOCIATION COMPANY

Los Angeles, Cal.

DEAR SIR:

Your well No. 2, Sec. 13, T. 13 S., R. 13 W., S.B. B. & M., Long Beach Oil Field, in Los Angeles County, was tested for shut-off of water on November 5, 1926, Mr. H. M. Oliver, Time and date designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present L. W. Colton, Supt. and V. Biscailaz, Driller.

Location of water tested above 4766' and normal fluid level 600' to 700'.

Depth and manner of water shut-off:

- 4766 ft. of 6 1/2 in. casing was cemented
- 11-1/2 ft. in shale formation
- 200 ft. Bear Brand cement by Thru casing method
- 7-5/8' rotary tools

Casing record of well:

- 15 1/2' cem. 7 1/2', 8 1/2' cem. 4281', W.S.O., shot at 4260' to 4270' and sidetracked 4260' to 4281'; 6 1/2' as above. Sidetracked Junk: 6 1/2' cem. 4260' to 4281'; 1/4 perf. liner 4265' to (See below)

Reported total depth of hole 4424 ft. Hole bridged from 4306' to 4350'-ft. Hole cleaned out to 4284' ft. for this test.

At time of test depth of hole measured (See below) 4284' ft., oil bailed to 2410' ft., mud fluid.

At 2:30 p.m., Nov. 5, 1926 (See below) Top of oil found at 2500' ft., top of water found at 2500' ft.

Result of bailing test:

- With a bulldog spear and combination socket inside the 4 1/2' cem. with the tpp at 4268'.

MR. COLTON REPORTED THE FOLLOWING:

1. The 6 1/2' liner was plugged with cement from 4444' to 4306' and a spear and combination socket were lost from 4306' to 4268'.
2. The 8 1/2' casing was shot from 4260' to 4270' prior to sidetracking as shown above.
3. The company conducted a mud test from 9:00 a.m. to 10:00 a.m. on Oct. 31, 1926, with drill pipe hung at 4320'. The loss was 1 1/2 bbl. per hr. after circulating for 5 hr.

The inspector noted the following:

1. Considerable gas was issuing from the 6 1/2' casing.
2. 60' of oil and no water entered the well while standing 18 1/2 hr. for test (Equivalent to 2.6 bbl. of oil per 24 hr.)
3. Fluid samples taken from the depths of 2500' consisted of clean oil, 2440'; " oil and some light mud fluid, 4786'; " fairly heavy mud, tasting fresh and some oil.
4. The bailer was not run to bottom at 4324', due to the danger of leaving it in the hole.

THE SHUT OFF IS APPROVED.

R. D. BUSH,
State Oil and Gas Supervisor

cc: Long Beach

By: Deputy
M. H. Soyster, Agent,
Barry Oil Association,
551 Chamber of Commerce Building
Los Angeles, California.

Dear Sir:

Receipt is acknowledged of your letter of
November 3, 1926, regarding mudding operations at your
well No. 2, Sec. 13, T. 4-S., R. 13-W., S. E. B. & M.
Long Beach oil field.

I note that you were not able to reach our
representative at Long Beach for the purpose of obtaining
approval to make a mudding test at this well on
Saturday afternoon, October 30. I further note that
after circulating for six hours, a measurement of mud
loss during the period of a half hour was found to be
at the rate of 1 ½ barrels per hour.

No report will be issued by this Department
covering the mudding operations, but a statement will
be made on the next "10th" report issued, so that approval
of the condition of the hole back of the 6½" casing will
not be withheld.

Yours truly,

[Signature]

Deputy Supervisor

cc: Long Beach

EH:BB
Mr. E. Huguenin,
Deputy State Oil & Gas Supervisor,
611 New Orpheum Theater Bldg.,
Los Angeles, Calif.

Dear Sir:

Concerning mudding operations at our Well #2, Section 13, Township 4-S., Range 13-W., S.B.B. & M., Long Beach Oil Field.

In accordance with your Report No. P-1-13694, we were to notify your department to witness the final mudding operation before cementing the 6 1/2 inch casing above the lower oil sand. On Saturday afternoon, October 30th, we made an unsuccessful attempt to get in touch with your representative at Long Beach, for the purpose of obtaining approval to make the mudding test ourselves.

After circulating for 6 hours a measurement was made for over a period of one-half hour to determine the loss of mud from the pit. This loss was found to be at the rate of 1 1/2 barrels per hour. The above test was witnessed by Mr. L. W. Colton of the Henderson Petroleum Corporation, who reported the above results to me.

The 6 1/2 inch casing was cemented in shale at a depth of 4766 feet on November 1st, 1926.

Yours very truly,

BARRY OIL ASSOCIATION

By [Signature]
Petroleum Engineer
Mr. H. H. Soyster,

Los Angeles, Cal.

Dear Sir:

Your supplementary proposal to deepen well No. 2, located in Section 13, T. 4 S., R. 13 W. S.B. & M., Long Beach Oil Field, Los Angeles County, dated Aug. 17, 1926, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

**RECORDS in addition to those shown in the notice:**
- **Casing record:** Total depth 4444'.
  - 15 1/2" cement 714'.
  - 8" 4261', W.S.O.
  - 6 3/4" liner landed 4444' to 4199', perforated 4444' to 4248', 60 mesh Lesso screen, re-perforated 4440' to 4420', 5 rows 1/4" x 1/2" perforations with 7" centers.

**THE NOTICE STATES:**
- The new conditions are as follows:
  - In attempting to jar out the 6 3/4" liner, a bull dog spear and a combination socket were left in the hole. Top of junk is at 4268 feet. Unsuccessful attempts have been made to remove this junk and to sidetrack it with cable tools but it has been found impossible to drill through the 8 1/2" casing.

**PROPOSAL:**
- We now propose to:
  1. Shoot from 4250 feet to 4260 feet in an attempt to destroy the 8 1/2" casing.
  2. Drill through the shot cavity made in the 8 1/2" casing.
  3. Proceed with the work as outlined in our original notice dated August 10, 1926, beginning with item No. 3 under "Proposed work."

**RECOMMENDATION:**
- The proposal is approved with the following recommendations:
  1. A short cement plug should be placed on top of the junk at 4268' prior to shooting as proposed.
  2. The shot proposed at 4250' to 4260' should not be large enough to endanger neighboring wells.
  3. Effective mudding of the formations to be left back of the 6 3/4" casing shall be demonstrated by circulating mud fluid through the drill pipe hanging just off bottom after drilling and reaming to the cementing depth for this casing until the loss is not more than 1 bbl. per hr.
  4. Sufficient cement should be forced back of the 6 3/4" casing to reach up to the shoe at 4281'. The cementing operations should then be concluded under pressure after closing in between the 6 3/4" and 8 1/2" casings.

**KINDLY NOTIFY THIS DEPARTMENT TO WITNESS:**
- Final mudding operations before cementing the 6 3/4" casing, and the cores taken from the well.
- A bailing test of the 6 3/4" shut off.

cc: Long Beach
Barry Oil Association

R. D. Bush,
State Oil and Gas Supervisor

By (signature) Deputy
SUPPLEMENTARY NOTICE

Los Angeles, Cal. August 17, 1926

Mr. Emil Huguenin,
Deputy State Oil and Gas Supervisor

Dear Sir:

Please be advised that our notice to you dated August 10, 1926, stating our intention to deepen well number 2 (Drill, deepen, redrill, abandon), Sec. 13, T. 4 S., R. 13 W., S. B. & M. Long Beach Oil Field, must be amended on account of changed or recently discovered conditions.

The new conditions are as follows: In attempting to jar out the 6½" liner, a bull dog spear and a combination sacket were left in the hole. Top of junk is at 4268 feet. Unsuccessful attempts have been made to remove this junk and to sidetrack it with cable tools but it has been found impossible to drill through the 6½" casing.

We now propose to:

1. Shoot from 4250 feet to 4260 feet in an attempt to destroy the 8" casing.

2. Drill through the shot cavity made in the 6½" casing.

3. Proceed with the work as outlined in our original notice dated August 10, 1926, beginning with item No. 3 under "Proposed work."

Respectfully yours,

BARRY OIL ASSOCIATION

(Name of Company)

By

Petroleum Engineer.
Mr. H. H. Synder

Los Angeles

Agent for BARRY OIL ASSOCIATION

Dear Sir:

Your proposal to Well No. 2, Section 15, T. 4 S., R. 15 W., S.B., Los Angeles Oil Field, Los Angeles County, dated Aug. 10, 1925, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

**THE NOTICE STATES:**

"The present condition of the well is as follows:

Total depth: 4444'.
Casings:
- 16" - 713'.
- 8 1/2" - 4283'.
- 6 1/2" - 4444'. Top of liner at 4198'. Perforated from 4248' to 4444', to mesh less screen. Reperforated from 4444' to 4420', 5 rows 3/4" x 3/4", perforated 7 centers.

We were unable to produce clean oil in commercial amounts from the upper zone."

**PROPOSAL:**

"The proposed work is as follows:

1. Plug 6 1/2" liner solidly with cement from 4444' to 4295'.
2. Remove 8 1/2" casing from 4295'.
3. Sidetrack 6 1/2" casing from 4295' to 4444'.
4. Deepen to lower zone cementing 6 1/2" water string at about 4730', depending upon cores to be taken below 4700'.
5. The formations to be left behind the 6 1/2" water string will be protected by mudding to the satisfaction of your department, and your representative will be called to witness this test.
6. Complete well at 4800' and run in a 4 1/2" perforated oil string."

**RECOMMENDATION:**

The proposal is approved with the following recommendations:

1. Effective mudding of the formations to be left back of the 6 1/2" casing shall be demonstrated by circulating mud fluid through the drill pipe hanging just off bottom after drilling and reaming to the cementing depth for this casing until the loss is not more than 1 bbl. per hr.
2. Sufficient cement should be forced back of the 6 1/2" casing to reach up to the 8 1/2" shoe at 4283'. The cementing operations should then be concluded under pressure after closing in between the 6 1/2" and 8 1/2" casings.

KINDLY NOTIFY THIS DEPARTMENT TO WITNESS:

1. Final mudding operations before cementing the 6 1/2" casing and the cores that determine the cementing depth.
2. A bailing test of the 6 1/2" shut off.

R. D. BUSH,
State Oil and Gas Supervisor

By... Deputy...

Long Beach - Company
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible.

Los Angeles, Cal. August 10, 1926

Mr. Emil Huguenin,
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

Dear Sir:

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at well number 2,

(Cross out unnecessary words)

Sec. 13, T. 4 S., R. 13 W., S.B. B & M.

Long Beach Oil Field, Los Angeles County.

The present condition of the well is as follows: Total Depth: 4444 feet (cement plug all cleaned out).

Casing Record: 15 1/2" - 713', 6 1/2" - 4283', W.S.O. O.K., 6 1/2" - 4444'. Top of liner at 4198'. Perforated from 4246' to 4444', 60 mesh Lesco screen. Reperforated from 4444' to 4420', 5 rows 1/2" x 3/8" perforations 7" centers.

We were unable to produce clean oil in commercial amounts from the upper zone.

The proposed work is as follows: Deepen to lower zone in the following manner:

1. Plug 6 1/2" liner solidly with cement from 4444' to 4295'.
2. Remove 6 1/2" casing from 4295'.
3. Sidetrack 6 1/2" casing from 4295' to 4444'.
4. Deepen to lower zone cementing 6 1/2" water string at about 4730', depending upon cores to be taken below 4700'.
5. The formations to be left behind the 6 1/2" water string will be protected by mudding to the satisfaction of your department, and your representative will be called to witness this test.
6. Complete well at 4800' and run in a 4 1/2" perforated oil string.

Respectfully yours,

BARRY OIL ASSOCIATION
(Name of Company or Operator)

By: Petroleum Engineer.

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located.
California State Mining Bureau
LOG OF OIL OR GAS WELL

Field: Long Beach Company: Barry Oil Association

Township: 4 S. Range: 13 W. Section: 13 Number of well: 2

In compliance with the provisions of Chapter 718, Statutes 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated March 10, 1926, was filed.

Signed: [signature]
Title: Petroleum Engineer
Date: May 28, 1926

The following work was done on this well after its completion and in accordance with our proposal to plug dated March 10, 1926:

1926.
March 15th Perforated 6 1/2" oil string 4444' to 4420' with 5 rows 1/2" x 3/4" perforations and 7" centers. Rickhart perforating machine.
" 16th Cleaned out to 4444'. Cemented with 10 sacks of Bear brand cement placed by means of dump bailer. 500# pressure applied by Hamer cement outfit.
" 20th Top of cement found at 4405'. Began bailing.
" 22nd Top of fluid at 2250' showed oil. Top of water found at 3000'.
" 23rd Well put on pump for test; pumped all water.
April 27th Ran Oilfield Service Company's water witch to make test. Test indicated water entering at 4262' - 4283' around the shoe of the 8 1/2" casing.
" 28th Recemented 8 1/2" casing with 45 sacks Bear brand cement and 15 gallons Stoneset chemical, 800# pressure. After this cement job the well was again placed on production and for awhile would pump neither oil nor water. The water finally broke in and to the present date, (May 28th, 1926) water in large amounts has access to the well.
Mr. H. Boyater

Los Angeles, Cal.

Agent for BARRY OIL ASSOCIATION

Dear Sir:

Your proposal to plug Well No. 2, Section 13 T. 4 S., R. 15 W. S.B., B & M., Long Beach, Los Angeles County, dated March 10, 1926, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

Records in addition to those shown in the notice:

Our report No. T-1-3772 shows that 15 5/8" casing was cemented at 714' and that water was shut off by the 8 5/8" casing at 4281'.

The notice states:

"The present condition of the well is as follows:

Total depth 4444'.
Casing record:
15"
8 5/8" - 4281'
6 1/8" - 4444' Top of liner at 4196'. Perforated 4248-4444'.

This well was completed on January 30, 1926 with an initial production of 132 barrels of oil and 30 barrels of water.
The production record follows:

<table>
<thead>
<tr>
<th>Oil Bbls</th>
<th>Water Bbls</th>
<th>Per cent water</th>
<th>Days produced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 2362</td>
<td>1163</td>
<td>33%</td>
<td>22</td>
</tr>
<tr>
<td>Mar. 187</td>
<td>563</td>
<td>75%</td>
<td>6</td>
</tr>
</tbody>
</table>

The water content of this well has increased to such an extent that it is unprofitable to produce it."

Proposal:

"The proposed work is as follows:

1. Clean out to 4444'.
2. Run water witch and determine source of water in well if possible.
3. If water is found to be coming from bottom the 6 1/8" casing will be ripped and a cement plug placed at a point above the entry of the water.
4. If the water is found to be coming around the 8 5/8" casing a cement job on the 8 5/8" casing will be made."

Recommendation:

The proposal covering work already completed is approved.

cc—Long Beach

R. D. Bush, State Oil and Gas Supervisor
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible.

Los Angeles, Cal. March 10, 1926.

Mr. E. Huguenin
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

Dear Sir:

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging, or altering the following well at number... at well number... (Cross out unnecessary words)

Sec. 13, T. 4 S., R. 13 W., S.B.B. & M. Long Beach Oil Field, Los Angeles County.

The present condition of the well is as follows:

Total depth 4444'.

Casing Record:

15" - 4281'
8 1/2" - 4444' Top of liner at 4198'. Perforated 4248' - 4444'.

This well was completed on January 30, 1926 with an initial production of 132 barrels of oil and 30 barrels of water.

The production record follows:

<table>
<thead>
<tr>
<th></th>
<th>Oil Bbls.</th>
<th>Water Bbls.</th>
<th>Per cent Water</th>
<th>Days Produced</th>
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<td>2362</td>
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<td>33%</td>
<td>22</td>
</tr>
<tr>
<td>March</td>
<td>187</td>
<td>563</td>
<td>75%</td>
<td>6</td>
</tr>
</tbody>
</table>

The water content of this well has increased to such an extent that it is unprofitable to produce it.

THE PROPOSED WORK IS AS FOLLOWS:

1. Clean out to 4444'.
2. Run water witch and determine source of water in well if possible.
3. If water is found to be coming from bottom the 6 1/2" casing will be ripped and a cement plug placed at a point above the entry of the water.
4. If the water is found to be coming around the 8 1/2" casing a recompletion job on the 8 1/2" casing will be made.

Respectfully yours,

BARRY OIL ASSOCIATION
(Name of Company or Operator)

By Petroleum Engineer.

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located.
CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS
HISTORY OF OIL OR GAS WELL

FIELD: Long Beach
COMPANY: BARRY OIL ASSOCIATION

Township: 4 S., Range: 13 W., Section: 12., Number of well: 9.

Signed: [Signature]

(President, Secretary or Agent)

Date: March 1st, 1926.

Title: Petroleum Engineer.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of drilling, together with the reasons for the work and its results. If there were any changes made in the casing, or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

1925.

November 9th Well spudded.

12th Cemented 70° - 16" DBX casing at 714' with 350 sacks Bear brand cement and 40 gallons Stonesset chemical by Hamer method.

14th Found 15 feet of hard cement above shoe of 16" casing.

December 4th Hole drilled to depth of 4027', twisted off 6" drill pipe. Top of fish at 732'. Began washing over and out 6" drill pipe.

9th Washed over and got out 6" drill pipe to 3327.06'.

11th Began sidetracking 6" drill pipe left in hole.

20th After sidetracking the 6" drill pipe to a depth of 3510' it bothered to such an extent that it became necessary to cement off by using 250 sacks of Bear brand cement and 100 gallons of Stonesset. This was pumped in at a depth of 3510' by Hamer process.

1926.

January 1st Re-drilling and sidetracking operations resumed. Top of cement found at 3395'.

7th Re-drilling and sidetracking operations completed. The 6" drill pipe was sidetracked from 3327.06' to 4027'. Began making new hole.

13th Cemented 8 thread - 36" - 65" American Seamless casing at 4281', using 400 sacks Bear brand cement and 40 gallons Stonesset chemical.

20th Top of cement found at 4273'. Bailed to 3000' and stood 8 hours for casing test. No water entered.

21st Test of shut off on 8 ½" casing made by Mr. V. Austin of State Mining Bureau. The fluid rose 5 feet after standing bailed to 3000' for a period of 12 hours. Water shut off approved. (See Report # T-1-9772)

25th Landed 246' - 65" DBX pipe including 186' - 60 mesh Lesco screen at 4444'.

30th After swabbing since January 26th well would not flow and was placed on pump.
CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

HISTORY OF OIL OR GAS WELL

Field: Long Beach
Company: BARRY OIL ASSOCIATION

Township: 4 S., Range: 15 W., Section: 13, Number of well: 9.

Date: March 1st, 1926.

Signed: [Signature]

Petroleum Engineer: [Signature]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CORE RECORD

2505 - 2604  Hard sandy shale. No cut.
4425 - 4435  8' hard shale with thin streaks of sandy shale.
4435 - 4444  3' of brown shale.
FIELD: Long Beach  
COMPANY: BARRY OIL ASSOCIATION

Township: 4 S.  
Range: 13 W.  
Section: 13  
Elevation: 91.22  
Number of Well: 2.

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Signed:...

Date: March 1, 1926.

Title: Petroleum Engineer

The summary on this page is for the original condition of the well.

**Oil Sands**

1st sand from... to...  
2d sand from... to...  
3d sand from... to...

**Important Water Sands**

1st sand from... to...  
2d sand from... to...

**Casing Record**

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>Where Landed</th>
<th>Where Cut</th>
<th>Weight Per Foot</th>
<th>Threads Per Inch</th>
<th>Kind of Shoe</th>
<th>Make of Casing</th>
<th>Yes</th>
<th>No</th>
<th>Cemented</th>
<th>Number of Sacks</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>714</td>
<td>714</td>
<td>70#</td>
<td>10</td>
<td>Plain 24&quot; DBX</td>
<td>X</td>
<td></td>
<td></td>
<td>360</td>
<td></td>
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<tr>
<td>61&quot;</td>
<td>4261</td>
<td>4261</td>
<td>36#</td>
<td>8</td>
<td>Plain Airer Belle</td>
<td>X</td>
<td></td>
<td></td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>61&quot;</td>
<td>4444</td>
<td>4444</td>
<td>26#</td>
<td>10</td>
<td>Airer Belle</td>
<td>X</td>
<td></td>
<td></td>
<td>400</td>
<td></td>
</tr>
</tbody>
</table>

**Cementing or Other Shut-off Record**

Casing: 6"  
Sacks: 400  
Time Set: 7 days  
Method: Hanger  
Test and Result: Failed to 2000' Stood 12 hrs. Fluid rose 5' Approved.

**Plugs and Adapters**

Heaving Plug—Material.  
Length.  
Where set.

Adapters—Material.  
Size.

**Tools**

Rotary Tools were used from... ft. to... ft.

Cable Tools were used from... ft. to... ft.

**Perforations**

State clearly whether a machine was used or casing was drilled in shop.

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Size of Holes</th>
<th>Number of Holes</th>
<th>Holes Per Foot</th>
<th>Machine—Shop</th>
</tr>
</thead>
<tbody>
<tr>
<td>4269 ft.</td>
<td>4444 ft.</td>
<td>60 mesh 6</td>
<td>6</td>
<td></td>
<td>Leaco Screen</td>
</tr>
</tbody>
</table>