

Site Detail Report

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

JOB: 0313031

SLIC

EDR ID: S108937560 **DIST/DIR:** 0.334 South **ELEVATION:** 49 **MAP ID:** 28

NAME: MEDICAL OFFICE BUILDING **Rev:** 03/18/2013
ADDRESS: 3200-3220 LONG BEACH BLVD ID/Status: Open - Remediation
LONG BEACH, CA 90807 ID/Status: Open - Remediation
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: -118.189223
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:](#)

Site Detail Report

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

JOB: 0313031

SLIC

EDR ID: U003660827 DIST/DIR: 0.365 ESE ELEVATION: 89 MAP ID: 29

NAME: TRICO INDUSTRIES **Rev:** 03/18/2013
ADDRESS: 3356 LIME AVE ID/Status: Completed - Case Closed
SIGNAL HILL, CA ID/Status: No further action required
LOS ANGELES ID/Status: Completed - Case Closed
SOURCE: CA State Water Resources Control Board

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: 33.8043610864346
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
Substance: TPH/V
Staff: SH

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

Rev: 03/18/2013

ADDRESS: 700 E 33 ST
SIGNAL HILL, CA 90755

ID/Status: Preliminary site assessment underway
ID/Status: I-11132

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: T0603703749

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

Post Remedial Action Monitoring Began: 2/27/1992

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

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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

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

SOURCE: CA State Water Resources Control Board

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 BA

Site Detail Report

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

JOB: 0313031

LUST

EDR ID: 1000287376 **DIST/DIR:** 0.420 ESE **ELEVATION:** 88 **MAP ID:** 31

NAME: QUALITY DIESEL SVC
ADDRESS: 3311 OLIVE
LONG BEACH, CA 90807
LOS ANGELES

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

SOURCE: CA State Water Resources Control Board

LUST:

Region: STATE
Global Id: T0603792926
Latitude: 33.817568
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@dpw.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: 01/01/1950
Action: Leak Stopped

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LONG BEACH, CA 90807

JOB: 0313031

LUST

EDR ID: 1000287376 DIST/DIR: 0.420 ESE ELEVATION: 88 MAP ID: 31

NAME: QUALITY DIESEL SVC
ADDRESS: 3311 OLIVE
LONG BEACH, CA 90807
LOS ANGELES

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

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: 8/25/1987
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 -

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

JOB: 0313031

LUST

EDR ID: 1000287376 DIST/DIR: 0.420 ESE ELEVATION: 88 MAP ID: 31

NAME: QUALITY DIESEL SVC
ADDRESS: 3311 OLIVE
LONG BEACH, CA 90807
LOS ANGELES

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

SOURCE: CA State Water Resources Control Board

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
RP 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 Delisted: DELISTED NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), 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: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - 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. TSDFs 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-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / 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 4004 criteria for solid waste landfills or disposal sites. SWF/LF (SWIS) - Solid Waste Information System

State/Tribal LTANKS: LUST REG 8 ORANGE CO. LUST - List of Underground Storage Tank Cleanups. LUST REG 1 - Active Toxic Site Investigation. RIVERSIDE CO. LUST - Listing of Underground Tank Cleanup Sites. LUST - Geotracker's Leaking Underground Fuel Tank Report. LUST REG 7 - Leaking Underground Storage Tank Case Listing. LUST REG 3 - Leaking Underground Storage Tank Database. LUST REG 5 - Leaking Underground Storage Tank Database. SONOMA CO. LUST - Leaking Underground Storage Tank Sites. LUST REG 6V - Leaking Underground Storage Tank Case Listing. LUST REG 4 - Underground Storage Tank Leak List. LUST REG 9 - Leaking Underground Storage Tank Report. LUST REG 2 - Fuel Leak List. VENTURA CO. LUST - Listing of Underground Tank Cleanup Sites. LUST REG 6L - Leaking Underground Storage Tank Case Listing. SAN MATEO CO. LUST - Fuel Leak List. LUST SANTA CLARA - LOP Listing. SAN FRANCISCO CO. LUST - Local Oversight Facilities. SOLANO CO. LUST - Leaking Underground Storage Tanks. NAPA CO. LUST - Sites With Reported Contamination. Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties. NAPA CO. LUST - Leaking Underground Storage Tank Database SLIC - Statewide SLIC Cases. SLIC REG 1 - Active Toxic Site Investigations. SLIC REG 2 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 3 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 4 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 5 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 6V - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 6L - SLIC Sites. SLIC REG 7 - SLIC List. SLIC REG 8 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 9 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: UST Active UST facilities gathered from the local regulatory agencies UST - Active UST Facilities AST - Aboveground Petroleum Storage Tank Facilities. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land.

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 dumpsites. 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.

Other Tanks: ALAMEDA CO. UST Underground storage tank sites located in Alameda county. ALAMEDA CO. UST - Underground Tanks KERN CO. UST - Underground Storage Tank Sites & Tank Listing. MARIN CO. UST - Underground Storage Tank Sites. NAPA CO. UST - Closed and Operating Underground Storage Tank Sites. ORANGE CO. UST - List of Underground Storage Tank Facilities. RIVERSIDE CO. UST - Underground Storage Tank Tank List. SAN FRANCISCO CO. UST - Underground Storage Tank Information. SOLANO CO. UST - Underground Storage Tanks. SUTTER CO. UST - Underground Storage Tanks. VENTURA CO. UST - Underground Tank Closed Sites List. YOLO CO. UST - Underground Storage Tank Comprehensive Facility Report. EL SEGUNDO UST - City of El Segundo Underground Storage Tank. LONG BEACH UST - City of Long Beach Underground Storage Tank. UST SAN JOAQUIN - San Joaquin Co. UST. UST MENDOCINO - Mendocino County UST Database. TORRANCE UST - City of Torrance Underground Storage Tank. SWEEPS UST - SWEEPS UST Listing.

Local Land Records: DEED Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land 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

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System CHMIRS - California Hazardous Material Incident Report System. SPILLS 90 - SPILLS90 data from FirstSearch.

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. TSCA - Toxic Substances Control Act. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). SSTS - Section 7 Tracking Systems. ICIS - Integrated Compliance Information System. PADS - PCB Activity Database System. MLTS - Material Licensing Tracking System. FINDS - Facility Index System/Facility Registry System. RAATS - RCRA Administrative Action Tracking System. BRS - Biennial Reporting System. CORTESE - "Cortese" Hazardous Waste & Substances Sites List. CUPA - CUPA Resources List. CUPA IMPERIAL - CUPA Facility List. CUPA MONO - CUPA Facility List. CUPA SANTA BARBARA - CUPA Facility Listing. CUPA MONTEREY - CUPA Facility Listing. CUPA SANTA CRUZ - CUPA Facility List. CUPA MERCED - CUPA Facility List. CUPA SAN LUIS OBISPO - CUPA Facility List. CUPA SHASTA - CUPA Facility List. CUPA HUMBOLDT - CUPA Facility List. CUPA INYO - CUPA Facility List. CUPA FRESNO - CUPA Resources List. CUPA DEL NORTE - CUPA Facility List. CUPA SONOMA - CUPA Facility List. CUPA TUOLUMNE - CUPA Facility List. CUPA LAKE - CUPA Facility List. CUPA SANTA CLARA - CUPA Facility List. CUPA CALVERAS - CUPA Facility Listing. CUPA AMADOR - CUPA Facility List. CUPA KINGS - CUPA Facility List. CUPA MADERA - CUPA Facility List. CUPA NEVADA - CUPA Facility List. CUPA BUTTE - CUPA Facility Listing. CUPA COLUSA - CUPA Facility List. CUPA YUBA - CUPA Facility List. CUPA EL DORADO - CUPA Facility List. LA Co. Site Mitigation - Site Mitigation List. HAZNET - Facility and Manifest Data. INDIAN RESERV - Indian Reservations. FEDLAND - Federal and Indian Lands. WDS - Waste Discharge System. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. PRP - Potentially Responsible

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

Street Name	Dist/Dir	Street Name	Dist/Dir
Alley	0.02 NW		
Driveway	0.13 SE		
E 33rd St	0.22 SSE		
E 35th St	0.02 North		
E 36th St	0.14 North		
E Cameron Pl	0.21 North		
E Crest Dr	0.22 South		
E Pepper Dr	0.24 SSW		
E Wardlow Rd	0.08 South		
Elm Ave	0.11 East		
I 405	0.11 SW		
Linden Ave	0.19 East		
Locust Ave	0.05 West		
Long Beach Blvd	0.03 East		
N Crest Dr	0.14 SW		
N Weston Pl	0.10 West		
Pacific Ave	0.23 West		
Pasadena Ave	0.17 ESE		
Pine Ave	0.16 WNW		
Ramp	0.08 SW		
W 33rd St	0.24 SSW		
W 36th St	0.22 NW		
W Wardlow Rd	0.12 SW		

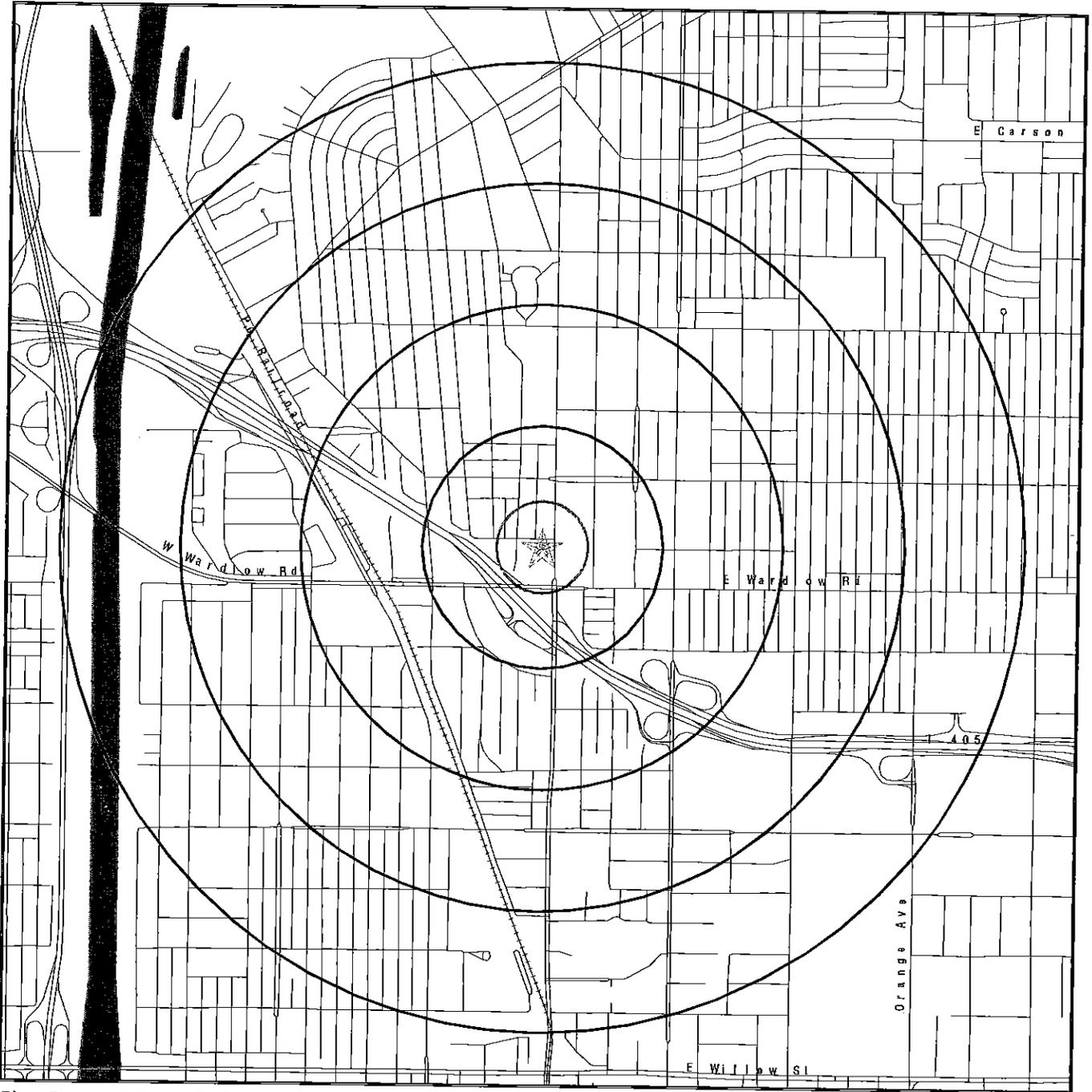
Environmental FirstSearch

1,000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites



3455 LONG BEACH BLVD. LONG BEACH, CA 90807



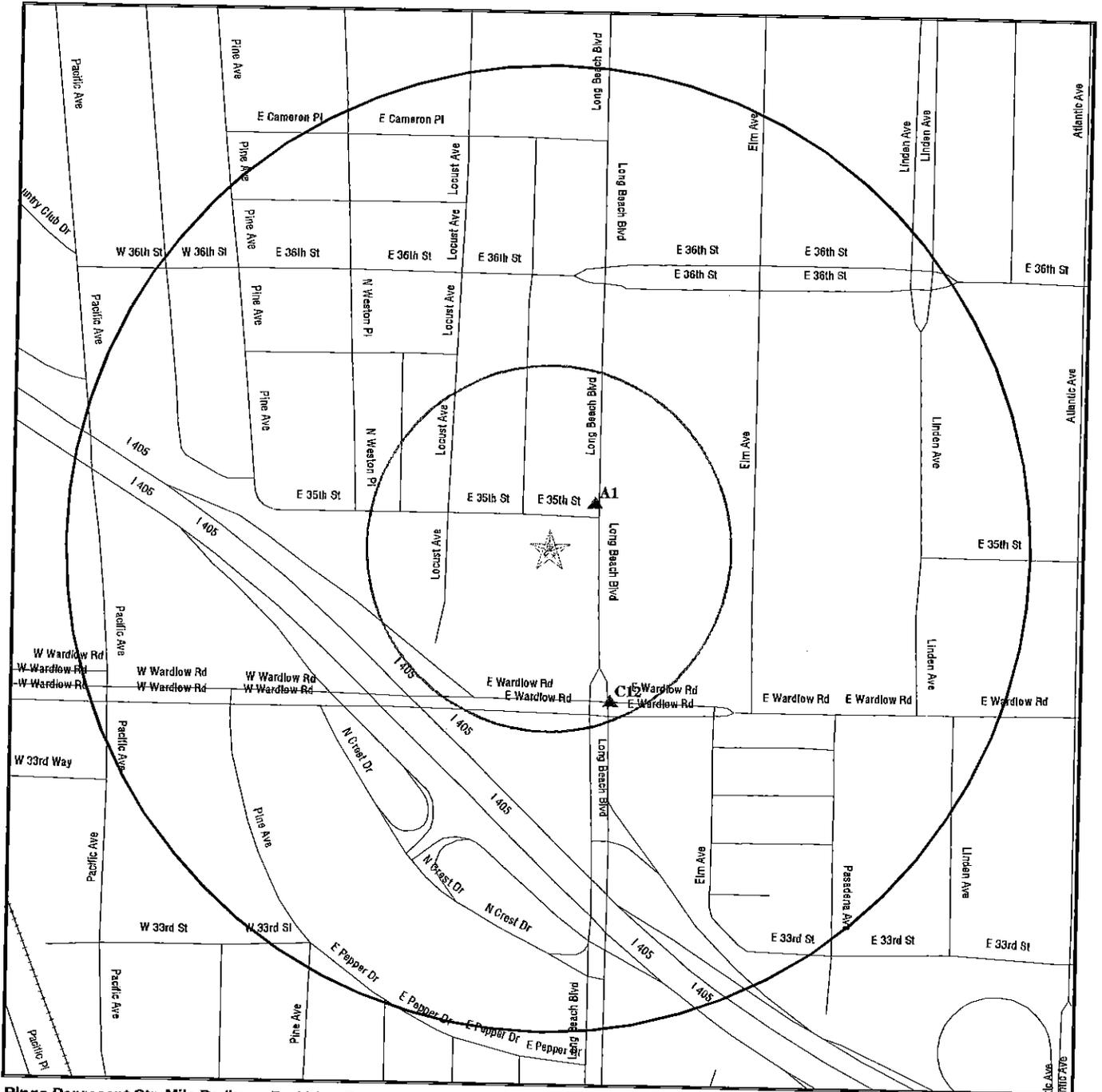
Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ☆ Target Property (Latitude: 33.8201 Longitude: 118.1898)
- ▲ Identified Sites
- National Priority List Sites
- ▨ Indian Reservations BIA

Environmental FirstSearch
0.25 Mile Radius
ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



3455 LONG BEACH BLVD. LONG BEACH, CA 90807



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 33.8201 Longitude: 118.1898)
- ▲ Identified Sites
- National Priority List Sites
- ▨ Indian Reservations BIA

Environmental FirstSearch

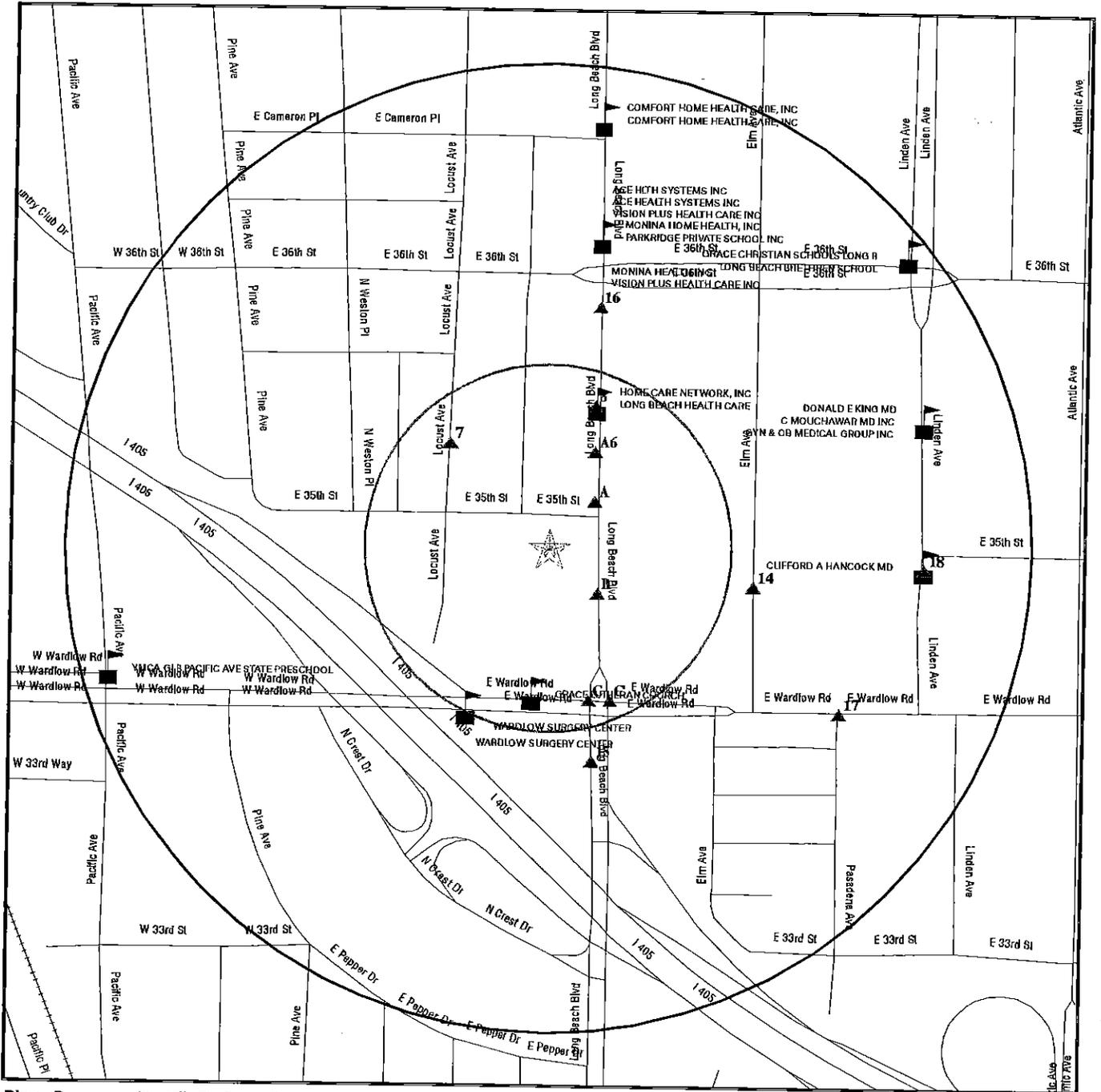
0.25 Mile Radius

Non ASTM Map, Spills, FINDS



EDR® Environmental Data Resources Inc

3455 LONG BEACH BLVD. LONG BEACH, CA 90807



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 33.8201 Longitude: 118.1898)
- ▲ Identified Sites
- Sensitive Receptors
- National Priority List Sites
- ▨ Indian Reservations BIA



KORDELIA JENKINS
SITE PLAN ASSISTANT

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

5816 CORPORATE AVE., SUITE 200
CYPRESS, CA 90630-4731

OFFICE PHONE 714/816-6847
FAX 714/816-6853

kjenkins@consrv.ca.gov



1597-34



Date July 22, 1980

LCF-1 (5-77)

1. 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:

Long Beach Blvd. & 35th SW - Long Beach
Lot 20, Block F Los Cerritos Tract

as per map thereof recorded in the Office of the County Recorder of _____ County, State of _____, for a term of one (1) year from August 15, 1980, for the purpose of erecting and maintaining advertising signs thereon, including necessary supporting structures, devices, illumination facilities and connections, service ladders, and other appurtenances thereon Five Hundred and NO/100

2. Lessee shall pay to the Lessor rental in the amount of \$ 500.00 Dollars per year, payable on a monthly basis. ~~For the first month of the term of this lease, the rental shall be \$1500.00.~~

INITIAL
PKC
MB

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 Lessee, without limiting such other remedies as may be available, has the option of requiring the Lessor to remove said obstruction or impairment, or the Lessee may itself remove the obstruction or impairment charging the cost of said removal to the Lessor, or the Lessee may reduce the rental herein paid to the sum of Five (\$5.00) 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 value of such signs is diminished by reason of diversion 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 government or military order, or other causes beyond Lessee's control from illuminating its signs, the Lessee may reduce the rental provided by paragraph 2 by one-half (1/2), with such reduced rental to remain in effect so long as such condition continues to exist.

INITIAL
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7. This Lease shall continue in full force and effect for its term and thereafter for ~~the next successive like terms unless terminated at the end of such term or any successive like term upon written notice by the Lessor or Lessee served sixty (60) days before the end of such term or subsequent like term, provided that Lessee shall have the right to terminate the Lease at the end of any sixty day period upon written notice to Lessor served not less than sixty (60) days prior to the end of such sixty day period. Lessor shall have the right to terminate the Lease at any time during the period of this Lease if the Lessor 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 Lessor will, upon giving such notice of building, return to the Lessee all rent paid for the unexpired term plus the total cost of the construction and the removal of Lessee's signs, less 1/10th of such cost for each foot of the Lease space on the date of termination. If Lessor 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 property are not to be utilized for such building, the Lessor has the option to use the remaining portion on the same terms, except that the rent shall be proportionately reduced.~~

INITIAL
PKC
MB

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 estate, if and when 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 this Lease.

9. This lease shall constitute the sole agreement of the parties relating to the lease of the above described premises. 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 "Lessor" as used herein shall include Lessors. This lease is binding ~~upon and inures to the benefit of the heirs, executors, successors, and assigns of Lessee and Lessor.~~ upon and inures to the benefit of the heirs, executors, successors, and assigns of Lessee and Lessor. METRO ESCROW, INC.

11. Lessor represents that he is the owner(s) Tenant(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 Lessor in the presence of _____ who is hereby requested to sign as witness.

WITNESS: _____
ACCEPTED: FOSTER AND KLEISER
Division of Metromedia, Inc.
By: _____
Title: _____

LESSOR(S) Charles F. Carter
By: Charles F. Carter
Address: 2292 Long Beach Blvd.
Long Beach, CA 90806

Read and Approved

APPENDIX E

REGULATORY AGENCY FILE REVIEW INFORMATION

RECEIVED

FEB 0 2 1995 *SP*

FIRE PREVENTION

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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FIGURE 1

AREA MAP

DETAIL

SEE MAP 69

ZIP LOS ANGELES CO.



SEE MAP 71

COPYRIGHT © 1989 BY Thomas Bros Maps - Z

FIGURE 2

SITE MAP

ANCON MARINE, INC.

1010 S. Cabrillo Avenue, San Pedro, California, 90731 *** (310) 548-8300 ***

PROJECT NAME: CATHER FAMILY

LOCATION: 3459 Long Beach Blvd., Long Beach

JOB NUMBER: 302.0482

DRAWING BY: Tracy Gadawski

DATE: 12-05-94

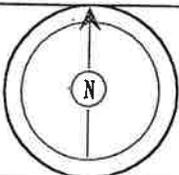
ENGINEER: Matthew Walker, P.E.

35TH STREET

OFFICE AND SHOP

550 GAL
UST

LONG BEACH BLVD.



LEGEND

SCALE: 1" EQUALS APPROXIMATELY 10 FEET

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 I

	Gasoline/Diesel 8015(m) PPM	Benzene 8020 PPB	Toluene 8020 PPB	Ethylbenzene 8020 PPB	Xylenes 8020 PPB
1W	ND	ND	ND	ND	ND
2W	ND	ND	ND	ND	ND
1E	ND	ND	ND	ND	ND
2W	ND	ND	ND	ND	ND
SP-1	ND	ND	ND	ND	ND

*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



UNDERGROUND STORAGE TANK REMOVAL INSPECTION REPORT

925 Harbor Plaza, Suite 100
Phone (310) 570-2560

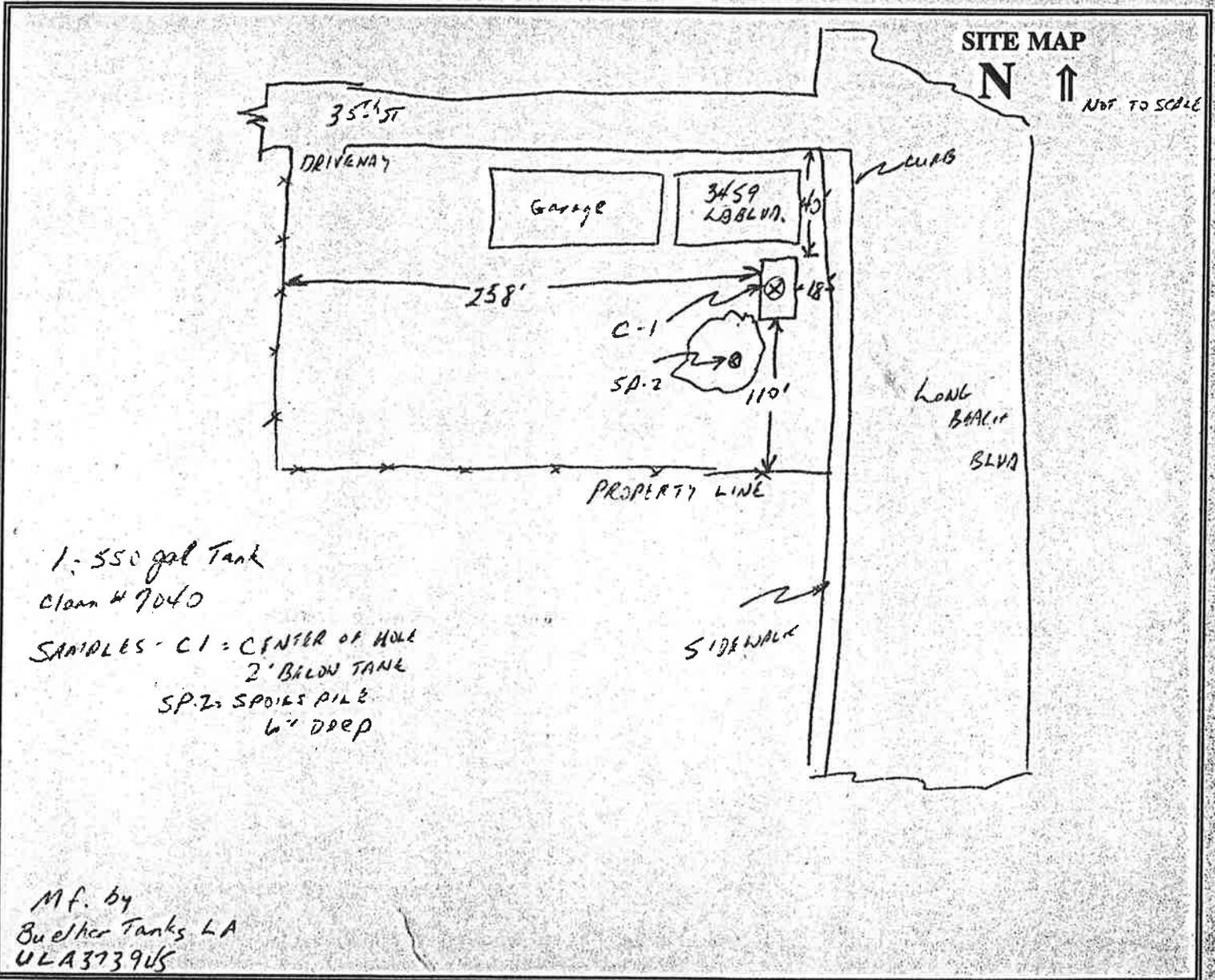
Long Beach, California 90802
Fax (310) 570-2566

NAME

ADDRESS

PHONE#

Site J. D. Cathers 3459 Long Beach Blvd. LA, CA 310-427-2828 DATE 12-20-94
 Owner James D. Cathers 3459 Long Beach Blvd. LB CA 713-502-0333
 Contractor ANCON 1010 S. CABRILLO San Pedro CA 310-548-8300 PROJECT# 183295
 Geologist Matthew J. Walker P.E. 5480 Katella Ave. Suite 211 Lakewood 349-2190
 Lab Stephen C. Reusch, REA 14201 Franklin Ave. Tustin CA 92680 714 Trusdail Lab. Inc. 730-6239 INSPECTOR J. B. Porter



Remove 1 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.

Dale Strieter **DALE STRIETER 310-548-8300 ANCON MARINE - MGR.**
 Signature Print name & phone # Company and Title

CITY OF LONG BEACH

INSPECTION REQUEST LINE (310) 590-2560

BUREAU OF FIRE PREVENTION

211 E. OCEAN BLVD. 5TH FLOOR
(310) 570-2560

LICENSED CONTRACTORS DECLARATION

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

License Class _____ 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 Law (Ch.9 (Commencing with Sec 7000 of Div.3 of the B. & P. C.). or that he is exempt therefrom and the basis for the alleged exemption. Any violation 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 as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Sec 7044, B. & P. C. : The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are 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 as 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 contracts for such projects with a Contractor(s) License pursuant to the Contractors License Law.).

" I am exempt under Sec. _____, B. & P.C. for this reason _____
Date _____ Owner _____

-IMPORANT-

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 faces of this application

- Each person upon whose behalf this application is made and each person at 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.
- 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.

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure or a certificate of worker's compensation insurance or a certified copy thereof.

Policy No. _____ Company _____
" Certified copy is hereby furnished.
" Certified copy is filed with the Department of Planning and Building.

Date _____ Applicant _____
CERTIFICATE OF EXEMPTION FROM WORKER'S COMPENSATION INSURANCE
I certify that in the performance of the work for which this permit is issued I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California.

Date _____ Applicant _____
NOTICE TO APPLICANT : If, after making this Certificate of Exemption, you should become subject to work's Comp. provisions of the Labor Code. You must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby state that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3807, Civ. C.).
Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all City and State laws relating to the building construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature of Owner or Contractor _____ Date _____

Fire Prevention Plans Received By _____ Date _____

JOB ADDRESS 3459 LONG BEACH BLVD		RECEIPT NO. 0164744	DATE 12/06/94	PROJECT NO. F0183295
JOB DESCRIPTION UT-REMOVE 1 UNDRGRD TANK -DP		AREA 12		
OWNER CATHER, JAMES D		OCCUPANCY		PLANNING 12/06/94 FIR
ADDRESS 3459 LONG BEACH BLVD		ASSESSOR NO. 7141004033		ZONE CO
CITY LONG BEACH CA 90807		FSB	S	RSB
APPLICANT ANCON,		TRANSACTIONS UNDRGRND TANK Per		CENSUS TR. 5720.02
CONTRACTOR		\$200.00		
ADDRESS				
CITY		STATE	ZIP CODE	PHONE
STATE LICENSE NO.		CITY LICENSE NO.		
ARCHITECT/ENGINEER		LICENSE NO.		
ADDRESS				
CITY		STATE	ZIP CODE	PHONE
VALUATION	PRESENT BLDG USE	PROPOSED BLDG USE	BLDG HEIGHT	TYPE OF CONST
LEGAL DESCRIPTION LOS CERRITOS LOTS 20 AND			PAID BY CHECK	FEES \$200.00

Paid By: ANCON,

Check # 28696

UNDERGROUND TANKS	TOTAL FEE	200.00
1 07 A. STORAGE	Permit Fee	200.00
		200.00

ANCON ENV.

Survey Requested by SEE BELOW	Vessel Owner or Agent UNDERGROUND TANK	Date 3459 L.B. BLVD
Vessel GASOLINE	Type of Vessel LEL O ₂ V O ₂	Specific Location of Vessel 1200 FPS
Last Cargo	Tests Performed	Time Survey Completed

UNDERGROUND TANK
 MARKED WITH RED
 SPRAY PAINT

TESTED 0% LEL
 20.8% O₂

SAFE FOR HOT WORK
 NOT SAFE FOR WORKERS
 TO ENTER. NOT TESTED
 FOR SPECIFIC TOXICS.

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 issued subject to compliance with all qualifications and instructions.

Signed [Signature] Name Ancon Marine Company 12-20-94 Date [Signature] Signed [Signature] Marine Chemist TOM BECK 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**

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

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:

- o Excavation to expose underground storage tanks and piping
- o 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:

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

5.4.2 Equipment Required to be Available on Site During Operations

- o Earplugs for each field person;
- o First-aid kit with eye wash;
- o Construction tape and barriers to delineate work zone;

- o 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;
- o Fire extinguishers in site vehicles and in work zone(s).

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

- o One respirator per person (half-mask with disposable organic vapor-dust/mist cartridges);
- o Earplugs for each field person;
- o First-aid kit with eye wash;
- o Construction tape and barriers to delineate work zone;
- o 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. Severly injured personnel **MUST ONLY** be transported by paramedics;
- o 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 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 values 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

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

o PHONE (310) 633-9162

o 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 of 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:

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

10.0 PROJECT PERSONNEL

Ancon Marine, Incorporated

Project Manager - Dale Strieter

Project Safety Officer - Jerry Neat

Site Safety Officer - Dale Strieter

Field Personnel - To be designated

**TABLE C-1
POTENTIALLY HAZARDOUS MATERIALS AT THE SITE**

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

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.



South Coast
AIR QUALITY MANAGEMENT DISTRICT

21855 E. Copley Drive, Diamond Bar, CA 91765-4182 (714) 396-2000

January 16, 1992

Angon Marine 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:

PROPERTY
OWNER'S
INITIALS

CE

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.

CE

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. CE

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. CE

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

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". CE

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. CE

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. CE

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. CE

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. CE

11. IF THE OVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000 PPMV, CE

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, CE

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. CE

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. CE

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

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. CE

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. CE.
- 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. CE.
- 19. THIS PLAN DOES NOT ALLOW ANY TREATMENT OF VOC-CONTAMINATED SOIL. CE.
- 20. A COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE DURING ALL SOIL HANDLING AND STORAGE PROCESSES. CE.
- 21. THIS PLAN IS NOT VALID UNTIL THE VERIFICATION BELOW IS SIGNED. CE.

I C. Elliott OWNERS REPRESENTATIVE
 AM THE OWNER OF THE PROPERTY
 LOCATED AT 3459 LB Blvd
 (SITE OF THE EXCAVATION). I VERIFY THAT I HAVE READ,
 UNDERSTOOD, AND INITIALED EACH CONDITION OF THIS PLAN.

[Signature]
 SIGNED

12-20-94
 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,

[Signature]
 for George Rhett
 Supervising A. Q. Engineer

AL R1166VXE
 cc: Ben Shaw, Enforcement, Data Management Branch

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
RULE 1166 SOIL MONITORING RECORDS

SITE INFORMATION

OWNER: J.D. CATHERT
ADDRESS: 3459 L.B. BLVD
CITY: LONG BEACH
ZIP CODE: 90807
DATE OF EXCAVATION: 12-20-94

MONITORING INFORMATION

COMPANY: ARGON MARINE
NAME OF PERSON: ANDY CHAVEZ
MONITOR MFG: HNU
MODEL NO: P1 101
CALIBRATION GAS: ISOBUTYLENE

TIME	VOC CONCENTRATION (ppmv)		COMMENTS
	EACH LOAD AS REMOVED	STOCKPILE SURFACE	
0730	∅	∅	
0745	∅	∅	
0800	∅	∅	
0815	∅	∅	

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

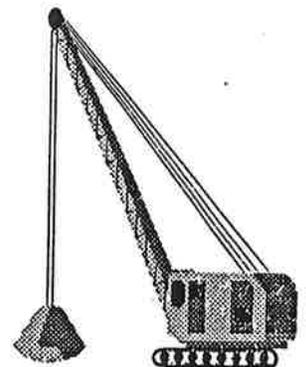
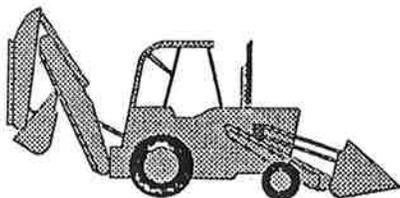
ORIGIN: J. D. Catlers
3459 Long Beach Blvd
Long Beach. California

TO WHOM IT MAY CONCERN:

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

THANK YOU.

Douglas S. [Signature]



50
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 THE
 SPILL
 EMERGENCY
 CASL
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC000725744070118	Manifest Document No.		2. Page 1 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address J.D. CATHERS 40 GENERAL DELIVERY LONG BEACH, CAL 90807				A. State Manifest Document Number 93007018			
4. Generator's Phone 213 502-0333				B. State Generator's ID CAC000725744			
5. Transporter 1 Company Name ANCON MARINE		6. US EPA ID Number CAID980737068		C. State Transporter's ID 433586		D. Transporter's Phone 310-548-8351	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address DEMENNO KERDOON 2000 N. ALAMEDA ST. COMPTON CA 90222				10. US EPA ID Number CAT080013352		G. State Facility's ID CAT080013352	
				H. Facility's Phone 310-537-7100			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA HAZARDOUS WASTE LIQUID (WATER + HYDROCARBON)				No. Type		Quantity	Wt/Vol
						001	TT 00100 G
b. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE							
c. DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY							
d. PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352							
15. Special Handling Instructions and Additional Information USE PROPER PERSONAL PROTECTIVE EQUIPMENT EMERGENCY PHONE 310-548-8351				K. Handling Codes for Wastes Listed Above			
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.				a. R-01			
17. Transporter 1 Acknowledgement of Receipt of Materials				b.			
18. Transporter 2 Acknowledgement of Receipt of Materials				c.			
19. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				d.			
Printed/Typed Name Paul Elliott				Signature <i>[Signature]</i>		Month Day Year 12 20 94	
Printed/Typed Name Ricardo A Alfredo				Signature <i>[Signature]</i>		Month Day Year 12 20 94	
Printed/Typed Name				Signature		Month Day Year	
Quantity discrepancy greater than 10% variation reconciled with generator on 12/21/94 will 369 gallons Received							
Printed/Typed Name Rod Wolfe				Signature <i>[Signature]</i>		Month Day Year 12 20 94	

DO NOT WRITE BELOW THIS LINE.

Yellow: TSD/ 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.)

J.D. Cather

Certificate of Treatment/Recycling

ISSUED TO

S.D. Cashess 'to General Delivery

FOR

MANIFEST NUMBER 93057018

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

Cyrus Pourhassanian
Laboratory Manager

1-12-94

Date

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

APPENDIX B

ANALYTICAL RESULTS AND

CHAIN OF CUSTODY

REPORT

TRUESDAIL LABORATORIES, INC.



CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239 • (213) 225-1564
FAX (714) 730-6462

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

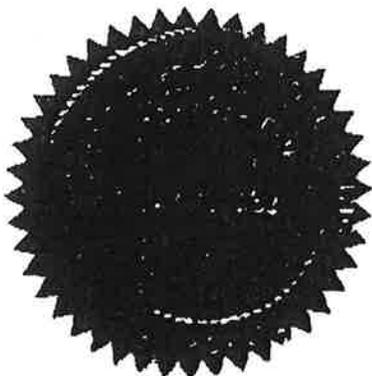
INVESTIGATION: Purgeable Organics (Volatiles) by EPA 8020
GC-FID

RESULTS

<u>Constituent</u>	<u>Detection* Limit (ug/kg)</u>	<u>Concentration** (ug/kg)</u>
Benzene	5.0	ND
Ethyl Benzene	5.0	ND
Toluene	5.0	ND
Xylenes	5.0	ND

* 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
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 or publicity matter without prior written authorization from these Laboratories.

REPORT

TRUESDAIL LABORATORIES, INC.



CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1991

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239 • (213) 225-1564
FAX (714) 730-6462

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

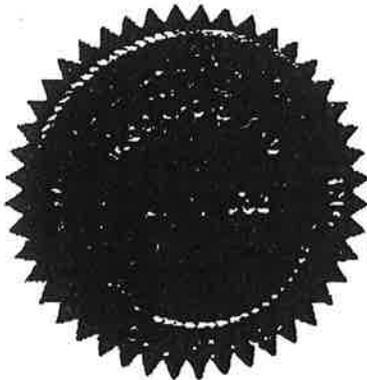
INVESTIGATION: Purgeable Organics (Volatiles) by EPA 8020
GC-PID

RESULTS

<u>Constituent</u>	<u>Detection* Limit (ug/kg)</u>	<u>Concentration** (ug/kg)</u>
Benzene	5.0	ND
Ethyl Benzene	5.0	ND
Toluene	5.0	ND
Xylenes	5.0	ND

* 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
Julia Nayberg, Manager
Water and Waste Laboratory

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REPORT

TRUESDAIL LABORATORIES, INC.



CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1951

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-8239 • (213) 225-1564
FAX (714) 730-8462

CLIENT: Cather Oil
3459 Long Beach Blvd.
Long Beach, CA 90802
ATTN: James D. Cathers

REPORT DATE: Dec. 21, 1994

RECEIVED: Dec. 20, 1994

LABORATORY NUMBER: 77260(1-2)

SAMPLE DATE: 12/20/94
SAMPLE: Soil/2

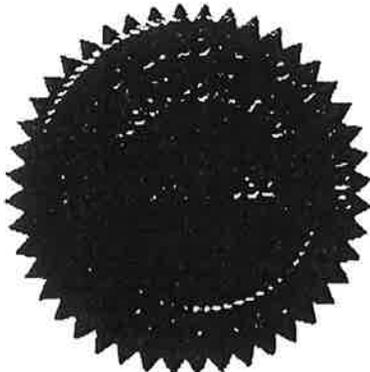
**Investigation: Analysis for Total Petroleum and Hydrocarbons
per EPA Method 8015m**

RESULT

MILLIGRAMS PER LITER

<u>SAMPLE I.D.</u>	<u>DETECTION LIMIT</u>	<u>CONCENTRATION, ug/g</u>	
		<u>Gas</u>	<u>Diesel</u>
#1 Below Tank	19.8	ND	ND
#2 Spoils	18.7	ND	ND

****ND = Not detected, below detection limit.**



**Respectfully Submitted,
Truesdail Laboratories, Inc.**

Julia Nayberg
**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 or publicity matter without prior written authorization from these Laboratories.



CITY OF LONG BEACH

DEPARTMENT OF HEALTH AND HUMAN SERVICES

2525 GRAND AVENUE • LONG BEACH, CALIFORNIA 90815 • (310) 570-4000

RECEIVED
FEB 8 1995
FIRE PREVENTION

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

F.P.26.5
1-29-42
200-copies

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

3495 Long Beach Blvd

FLAMMABLE LIQUIDS PERMIT

PERMIT FOR STORAGE, USE, AND HANDLING OF FLAMMABLE LIQUIDS IN ACCORDANCE WITH
ORDINANCE NO. C-939, CHAPTER 12

CLASS OF LIQUID Yes DATE ISSUED: May-31-1944

I HEREBY REQUEST PERMISSION TO:

INSTALL: Yes TANK: 1-550 UNDERGROUND: Yes
REPAIR: _____ PUMP: _____ ABOVEGROUND: _____
REMOVE: _____ PIPING: _____ CAPACITY: 550 Gallon

TO BE USED IN CONNECTION WITH: Pvt Service Station

LOCATION: 3459 American Ave. Removed Project # 183295 12-20-94 JP

TYPE OF PUMP: Visible OPERATED BY: Hand

PRESENT NUMBER OF TANKS: None PUMPS: None

TYPE OF BUILDING: Small Office Bldg type 5

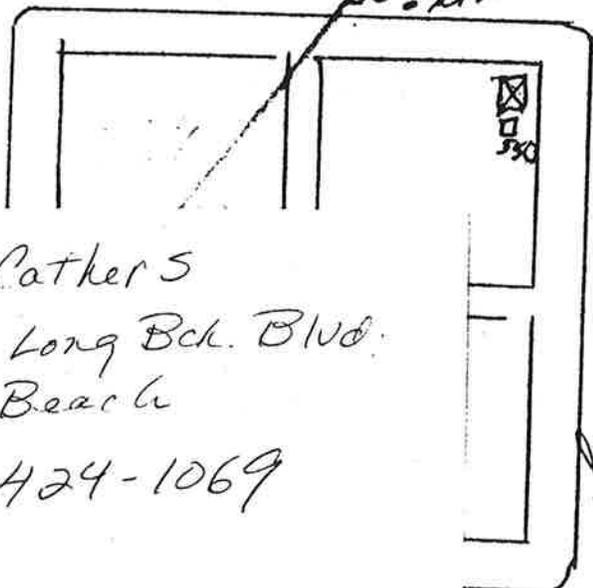
REMARKS: To service his own trucks in connection with work in the oil fields

TOTAL GALLONS OF FLAMMABLE LIQUID STORED AT THIS ADDRESS: (550) GALLONS.

SYMBOLS

N	Pump	
E	New Tank	
S	Existing Tank	
	Abandoned Tank	
	Building	

APPLICANT: L.R. Wahl
ADDRESS: 2725 Chestnut Ave
BY: L.R. Wahl
ADDRESS: 2725 Chestnut Ave.
TELEPHONE: 475-44 Home Phone 476-46



EXCAVATION PERMIT NO. _____
REMARKS: _____
INSPECTED DATE: _____
BY: Bureau of Fire
E.O. Ballou
PERMIT ISSUED
Fire Preventive

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

1-20-00-10-1-16-14-19

*J.D. Cather 5
2292 Long Bch. Blvd.
Long Beach
424-1069*

Long Beach Blvd



Department of Conservation

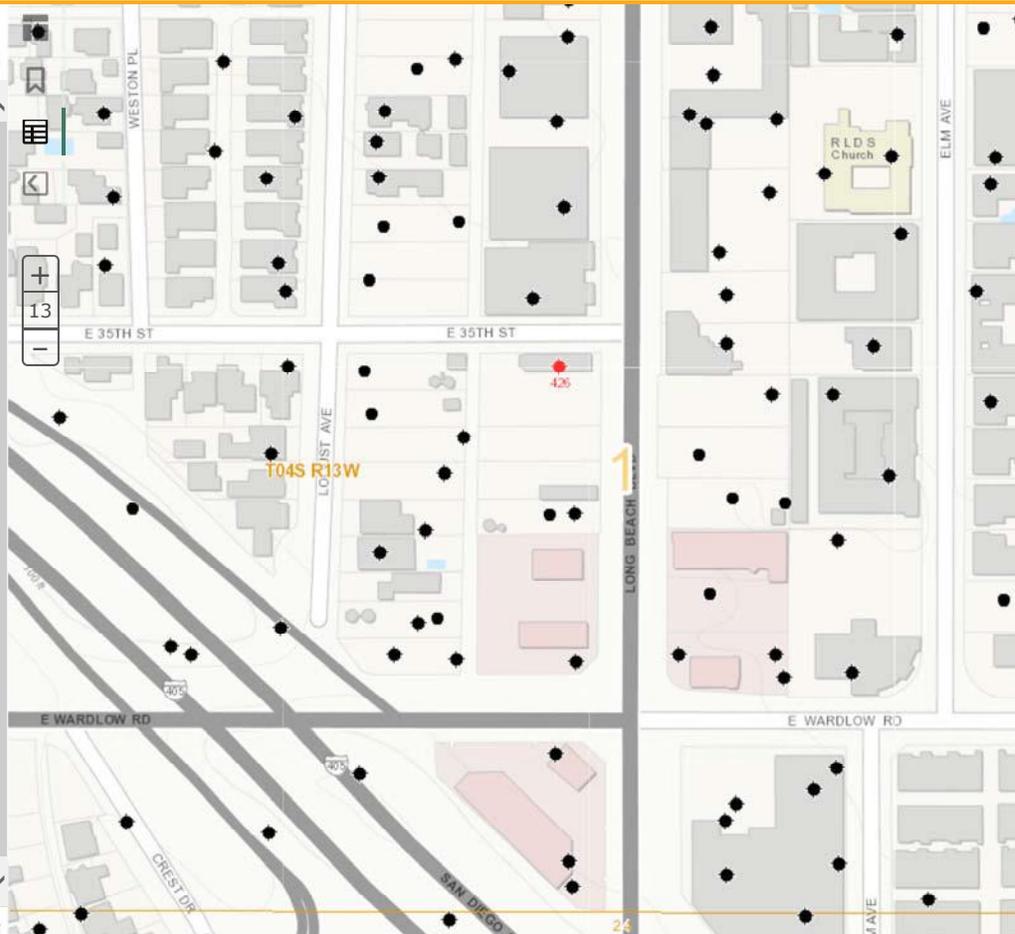
Accessibility

Lat: 33.82067

Division of Oil, Gas & Geothermal Resources Well Finder

Data Grid:

API #	Operator
03709577	Remora Operating CA, LLC, A Texas Limited Liability Company
03709578	Remora Operating CA, LLC, A Texas Limited Liability Company
03709751	Featherstone & Preston Inc.
03712426	Wood-Callahan Oil Co., Ltd.
03708797	A. W. Brooks Production



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

Mr. Len Owens, Contractor,
Route 1, Box 148 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. & M., 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

By

E. Aguilera
Deputy Supervisor.

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

WJC:EMS

Reference to file of data

		FOLDER	
NO.	DATE	NO.	DATE
20			21
988			

BK 4/19/37

RECEIPT IS HEREBY ACKNOWLEDGED OF FINAL REPORT OF ABANDONMENT

DISTRICT NO. 1, DATED April 16,, 1937

Well No. 4

Wood-Callahan Oil Co., Ltd.

¹³ Sec. (14), T. 4 S., R. 13 W., S. B. B. & M.

SUBMIT IN DUPLICATE
 STATE OF CALIFORNIA
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
 RECEIVED
 APR 16 1937
 LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Wood-Callahan Oil Co. Ltd. FIELD Long Beach
 Well No. 4, Sec. 13, T. 4 S, R. 13 W, S. B. B. & M.

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 Len Owens

Date April 2, 1937 Title Contractor
 (President, Secretary or Agent)

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.

Date

1937

- Feb. 11 Hole could not be cleaned out below 6444'. Bailer showed iron marks. Dumped 6 sax cement 6444'. This filled to 6328'.
- 13-18 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 8-1/4" 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.

Reference to file of data

No.	Date	Forms
		121

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:

WOOD-CALLAHAN OIL CO., LTD.

Operations at you well No. 4 Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.,

Long Beach Field, in Los Angeles County, were witnessed by

R. H. Wells, representative of the supervisor,

on February 26, 1937. There was also present Len Owens, Contractor, and

H. Owens, Helper.

Casing Record <u>15 1/2" cem. 714'; 8 1/2" cem. 4281', W.S.O.,</u>	Junk (1st hole) <u>8 1/2", 4260'-4281';</u>
<u>shot 4260'-4270', pulled from 554'; 6 1/2" cem. 4766',</u>	<u>6 1/2", 4265'-4444'; spear and socket</u>
<u>W.S.O., pulled from 1506'; 4 1/2" cem. 6410', W.S.O.,</u>	<u>top 4268'; T.D. 4444'.</u>
<u>pulled from 3454'; 3" liner ld. 6386'-7512', perf. 6581'-</u>	
<u>7512', collapsed at 6444'; T.D. 7546', plugged with</u>	
<u>cement 6444'-6328', 3454'-3427', 1506'-1484' and *</u>	

The operations were performed for the purpose of testing the location and hardness of a cement plug
placed from 554' to 536' in the process of abandonment,

and the data and conclusions are as follows:

*554'-536'.

ENGINEER PEIRCE VISITED THE WELL AT 10:00 A. M. ON FEBRUARY 23, 1937, AND NOTED THAT THE 8 1/2" casing was shot at 695', 665' and shot loose at 554'.

ENGINEER CROWN 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 554'.

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 554'.
2. The top of the cement was located at 536'.

THE INSPECTOR NOTED THAT THE BAILER COULD NOT BE SPUNDED BELOW 536' 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 536' ARE APPROVED.

cc-Wood-Callahan Oil Co. *Del.*

Long Beach

RHW:OH

988

R. D. BUSH

State Oil and Gas Supervisor

By *E. J. ...* Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-31738

Los Angeles, Calif. March 9, 19 37.

Mr. Len Owens,
Lomita, Calif.

~~Agent for~~ LEN OWENS, CONTRACTOR

DEAR SIR: WOOD-CALLAHAN OIL COMPANY, LTD.

Operations at ~~well~~/well No. 4 Sec. 13, T. 4 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, 19 37. There was also present L. Owens, Contractor, and
H. Owens, Driller.

Casing Record <u>15 1/2"</u> cem. <u>714'</u> ; <u>8 1/2"</u> cem. <u>4281'</u> , W.S.O.; <u>shot 4260'-4270'</u> ; <u>6 1/2"</u> cem. <u>4766'</u> , W.S.O., pulled from <u>1506'</u> ; <u>4 3/4"</u> cem. <u>6410'</u> , W.S.O., pulled from <u>3454'</u> ; 3" liner landed <u>6386'-7512'</u> , perf. <u>6581'-7512'</u> , collapsed at <u>6444'</u> ; T.D. <u>7546'</u> , plugged with cement <u>6444'-6328'</u> , <u>3454'-3427'</u> , and <u>1506'-1484'</u> .	Junk (1st hole) <u>8 1/2"</u> , <u>4260'-4281'</u> ; <u>6 1/2"</u> , <u>4265'-4444'</u> ; spear and socket, top <u>4268'</u> ; T.D. <u>4444'</u> .
---	--

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:OH

988

R. D. BUSH

State Oil and Gas Supervisor

By E. H. [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

Mr. Len Owens,
Lomita, Calif.

121

Agent for LEN OWENS, CONTRACTOR

DEAR SIR:

WOOD-CALLAHAN OIL CO. LTD.

Operations at your well No. 4 Sec. 13, T. 4S., R. 13W., S. B. 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 15 1/8" cem. 714'; 8 1/4" cem. 4281' W. S. O.; Junk (1st hole) 8 1/4" 4260'-4281';
shot 4260'-4270'; 6 1/4" cem. 4766', W. S. O.; 4-3/4" cem. 6 1/4" 4265'-4444', spear and
6410', W. S. O., pulled from 3454'; 3" liner landed socket top 4268'. T. D. 4444'.
6386'-7512', perf. 6581'-7512', collapsed at 6444'. T. D.
7546', plugged with cement 6444'-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

Handwritten initials

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 1-31691

Los Angeles, Calif. March 3, 1937

Mr Len Owens,
Lomita Calif.

Agent for LEN OWENS, CONTRACTOR

DEAR SIR:

WOOD-CALLAHAN OIL CO. LTD.

Operations at your/well No. 4 Sec. 13, T. 4S., R. 13W. S. B. B. & M.,

Long Beach Field, in Los Angeles County, were witnessed by

G. Peirce, representative of the supervisor,

on February 12, 1937. There was also present Len Owens, Contractor,
and H. Owens, Driller.

Casing Record 15 1/2" cem. 714'; 8 1/2" cem. 4281' W. S. O.;	Junk (1st hole) 8 1/2" 4260'-
shot 4260'-4270'; 6 1/2" cem. 4766', W. S. O.; 4-3/4" cem. 4281';	6 1/2" 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:G

R. D. BUSH
State Oil and Gas Supervisor

By *[Signature]* Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-30429

Los Angeles, Calif. February 24, 1937.

Mr. Len Owens,

Lomita, Calif.

121

~~Agent for~~ LEN OWENS, CONTRACTOR.

DEAR SIR:

WOOD-CALLAHAN OIL CO. LTD.

Your abandon / Well No. 4

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

dated Feb. 8, 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:

T. D. (old hole) 4444'.

The last production reported from this well was during 20 days in December, 1936, when the daily average yield was 2½ bbl. of oil and 44 bbl. of water.

THE NOTICE STATES:

"The present condition of the well is as follows:

15" cem. 714'

8" cem. 4281', W.S.O., shot 4260' - 4270'.

6" cem. 4766', W. S.O.

4" cem. 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'

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

Full 6 1/2" casing from 4260', or above, and cap stub with 20' cement plug.

Full 8 1/2" 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 1/2" 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

WJC:OH

R. D. BUSH

State Oil and Gas Supervisor

By E. J. [Signature] Deputy

len

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED
FEB 22 1937
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

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 1915, as amended, notice is hereby given

Wood-Callahan Oil Company

that it is our intention to abandon well No. "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

of 19

The present condition of the well is as follows:

20 Dec. 1936
2 1/2
44

15 1/2" cem. 714'

8 1/4" cem. 4281', W. S. O., shot 4260' - 4270'

6 1/4" cem. 4766', W. S. O.

4 3/4" cem. 6410', W. S. O.

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 1/4" casing from 694', or above, and cap stub with 20' cement plug.

Plan

Reference to file of data

Map	Mode	Date	Notes	
			✓	✓
			✓	✓

Len Owens, Contractor

(Name of Operator)

By Len Owens

SUBMIT IN DUPLICATE
FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
CORE RECORD OF OIL OR GAS WELL

DIVISION OF OIL AND GAS
RECEIVED
MAY 26 1931
LOS ANGELES, CALIFORNIA

FIELD Long Beach COMPANY Wood-Callahan Oil Co. Ltd.

Sec. 13, T. 4 S, R. 13 W, B. & M., Elevation _____ Well No. 4

In compliance with the provisions of Section 18, Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of all cores taken in this well to the depth on the accompanying log.

Signed J. Wood

Date May 19, 1931

Reference to file of data

Map	Title	Forms (Resident, Secretary or Agent)
		121

DATE	MAKE OF BARREL	SIZE OF BARREL	FROM (DEPTH)	TO (DEPTH)	CORE RECOVERED	DESCRIPTION OF CORE	ETHER TEST	CONDITION OF CORE
1930								
4/4	Elliott	5 5/8	6347	6352	5'	11" gr. sd. 6" hd. br. shale		
	"	"				14" gr. sd. 16" br. shale		
4/2	"	"		6366	9'	87" hr. br. sh-stk's hr. sd.		
4/3	"	"	6375	6378	3"	31" hard br. shale		
4/4	"	"	6378	6379	none			
4/4	"	"	6379	6383	4'	3" sh-stk's sd. 14" O.S. 11" hd. sh. 3" O. S. light cut		
4/5	"	"	6386	6401	15'	122" O.S. hd. good cut 3" shale 31" O.S. soft-good cut 22" tough br. shale		
4/5	"	"	6408	6410				
4/8	"	"	6437	6441	4'			
4/14	"	"	6670	6676	6'	42" O.S. 10' st'y br. sh. 28" O.S. good cut		
4/15	"	"	6676	6679	2 1/2'	3' sh. & O.S. 13" O.S. 15" hd. br. sh. 4" O.S. good cut		
4/16	"	"	6679	6680		12" O. S. Good		
4/17	"	"	6719	6722		17" rotten sh-9" O.S. 4" sh. 7" O.S.		
4/24	"	"	6840	6846	2 1/2'	3" shell-33" O.S. hard good cut		
4/25	"	"	6847	6849	2'			
4/25	"	"	6859	6861	2'	1" hr. O.S. 1" O.S. good cut		
4/26	"	"	6866	6873	7'	36" O.S. 6" shell - 36" O.S.		
4/26	"	"	6873	6878	5'			
4/26	"	"	6878	6883		4" O.S. 2" hr.br.sh. 7' O.S. 3" Hr.br.sh. 2" O.S. 6" hd.br.sh.		
4/27	"	"	6885	6886		soft head		
4/27	"	"	6886	6893	3'	35" O.S. light cut		
4/29	"	"	6942	6947	2 1/2'	6" soft sandy sh. 27" O.S. Light cut		
4/29	"	"	6947	6955		36" hr. O.S. light cut		

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 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 WOOD-CALLAHAN OIL CO. LTD.

Date April 8, 1931 Title _____

(President, Secretary or Agent)

1930

Jan.	28-30	Pulled rods
Feb.	3-30	Unable to pull liner - made several cuts
"	6	Unable to pull remaining 20 ft. started milling
"	24	All pieces of liner removed and started making hole
Mar.	18	Broke Kelly off at swivel sub - all pipe recovered
May	2	Set bridge at 6460-with 11 sacks Santa Cruz
May	3	Mud test O. K.
"	4	Landed 6410 feet 4 3/4 A.P. 1 seamless 16 lb. casing
"	14	Shut off approved
"	19	Bare foot test made, approx 150 wbls. clean
"	21	Washing sand bridges out at 6480, Kelly parted
"	24	Recovered 2 1/2 drill pipe to 6382
"	28	Tore up string of left hand drill pipe
"	31	Backed off 4 3/4 casing to recover fish
"	31	Recovered fish to safety joint
"	31	Replaced 4 3/4 casing
June	3	Derrick floo. went down
"	4	New string of left hand
"	5	Unable to recover fish
"	6	Started milling
"	20	Fish milled 2 feet below 4 3/4, side tracked
July	17	Fish cemented to 6426
"	17	Rig shut down
Sept.	27	Started milling out cement by fish
Oct.	23	Finished drilling at 7546
"	25	Landed 3" inserted liner at 7512
"		931'2" perforated --- 195'3" blank
"	29	Well on production

STATE OF CALIFORNIA
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
 RECEIVED
 APR 10 1931
 LOS ANGELES, CALIFORNIA

LOG OF OIL OR GAS WELL

FIELD Long Beach, Calif. COMPANY Wood-Callahan 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 _____, was filed.

SIGNED Wood-Callahan Oil Co. Ltd.
 Reference to file of data

Date April 8, 1931

Title	Initials	Form No.
Make	Mode	(President, Secretary or Agent)

48297-4878	sandy shale-stks. h'd s'd	5243-5255	tough shale
4878-4896	sand	5255-5256	shell
4896-4921	sandy shale	5256-5307	sandy shale
4921-4924	tough shale	5307-5312	tough shale
4924-4933	sticky shale	5312-5318	tough shale
4933-4935	hard sand	5318-5336	sandy shale
4935-4936	sticky shale	5336-5341	shell
4936-4940	tough shale	5341-5346	shale
4940-4971	shale-sticky h'd Sand	5346-5348	hard sand
4971-4991	hard sand - shale	5348-5374	sandy shale
4991-4999	shell	5374-5379	hard sand
4999-5002	tough shale	5379-5382	sandy shale
5002-5004	shell	5382-5398	hard sand
5004-5017	hard sand-sticky shale	5398-5430	sandy shale
5017-5065	sandy shale-stks of hard	5430-5433	shell
5065-5073	sandy shale	5433-5435	hard sand
5073-5082	sticky shale	5435-5458	sandy shale
5082-5092	sticky shale	5458-5470	shale & stks sand
5092-5102	tough shale	5470-5475	tough shale
5102-5112	sticky shale	5475-5490	tough shale-stks of hard
5112-5123	sandy shale	5490-5502	tough shale
5123-5126	hard sand	5502-5508	sandy shale
5126-5135	sandy shale	5508-5509	shell
5135-5138	hard sand	5509-5513	hard sand
5138-5142	shell	5513-5548	sandy shale
5142-5166	sandy sh.-stks h'd s'd	5548-5556	sticky shale
5166-5169	hard sand	5556-5569	tough shale
5169-5178	shale & thin shell	5569-5593	sandy shale
5178-5183	tough shale	5593-5596	hard sand
5183-5188	sticky shale	5596-5613	sandy-sticky sand
5188-5190	tough shale	5613-5628	tough shale-stks of sand
5190-5215	shale-stks H'd s'd	5628-5635	tough shale
5215-5241	shale	5635-5640	tough shale
5241-5243	hard sand	5640-5642	hard shale
		5642-5674	sandy shale-stks of tough

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.....
(President, Secretary or Agent)

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	5342-6345	sandy
5803-5814	tough shale-stks h'd sand	5345-6347	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
5958-5969	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
5875-5984	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 " " "
6044-6088	sandy shale	6496-6497	hard shell
6088-6104	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	6526-6545	sand - stks. of hard
6167-6173	tough shale	6545-6550	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

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.....

(President, Secretary or Agent)

6568-6572	tough shale	6916-6936	sand
6572-6577	tough st. str. h'd sand	6936-6943	oil sand
6577-6580	hard sand	6942-6947	oil sand
6580-6597	sand & str. of shale	6947-6955	oil sand
6597-6640	sandy shale		
6640-6660	sh. & str. of sand		
6660-6663	sand		
6663-6672	oil sand & str. shale		
6672-6679	" " " "		
6679-6680	oil sand		
6680-6681	hard sand		
6681-6694	sand & shells		
6694-6708	oil sand		
6708-6719	sand & str. of shale		
6719-6727	sand & str. of shale		
6727-6733	sand & shale		
6733-6736	tough shale		
6736-6747	sand		
6757-6757	sand & str. of shale		
6757-6759	tough shale		
6759-6768	tough sh. & str. sand		
6768-6784	" " " "		
6784-6790	hard sand & str. tough		
6790-6797	sand & tough shale		
6797-6799	shell		
6799-6803	hard sand		
6803-6815	sand & str. of shale		
6815-6822	sand & str. h'd shale		
6822-6825	tough shale		
6825-6839	sand & str. of shale		
6839-6840	hard sane		
6840-6847	shell		
6847-6859	oil sand		
6859-6878	oil sand		
6878-6883	oil sand - str. shale		
6883-6893	oil sand		
6893-6896	hard sand		
6896-6916	sand-str. of hard		

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.....

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SIGNED.....

Date.....

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
6548-6567 sandy shale
6567-6588 tough shale
6588-6591 sand
6591-6597 tough shale
65976618 sandy shale
6618-6628 sand
6628-6638 sticky shale
6638-6639 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
6872-6984 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
7085-7098 sand
7098-7105 sand
7105-7117 shale
7117-7118 shell
7118-7125 hard sand
7125-7130 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
7231-7240 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.....
(President, 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

MANAGEMENT BOND
A HAMMERMILL PRODUCT

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 E., 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. "Leavell" 1 will hereafter be known as well No. 5.

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

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

cc-Long Beach

Corrections Made as Follows	By Whom
Weekly Summaries	
121	
Elev. and Log. Charts	
Production Reports	
Well Records	
Folios	
Reports	

MEMO FOR WELL RECORD.

Letter dated Jan. 19, 1931, to R. D. Bush, states that Wood-Gallahan 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,

E. Guerin

Deputy Supervisor

CC - Long Beach

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Corrected in
letter dated
5-23-30.

Report on Test of Water Shut-off
(BAILING)

20905
No. T - 1-20723

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: { 6410ft. of 4 3/8 in. 16 lb. } casing was { cemented } shale with streaks
{ ---ft. of ---in. ---lb. } { -landed- } in of oil sand.
Formation

at 6410 ft. with 125 sacks Santa Cruz cement by casing method.

Water string was landed in 5-5/8" rotary hole.
Size, rotary or cable tool

Casing record of well 15 1/2" cem. 714'; 8 1/2" cem. 4281', W.S.O., shot 4260'-4270'; 6 1/2" cem. 4766', W.S.O.; 4 3/8" as above. Junk: 8 1/2" cem. 4260'-4281'; 6 1/2" perf. liner 4265'-4444', with a bulldog spear and combination socket inside 6 1/2" casing with top at 4268'.

Reported total depth of hole 6955 ft. Hole bridged from 6465 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 } to 3000 ft.
Time and date { swabbed }

At 2:00 p.m., May 14, 1930 top of oil found at no oil ft., top of fluid found at 2945 ft.
Time and date

Result of test:

MR. CALLAHAN REPORTED THE FOLLOWING:

1. No casing test was made.
2. 64' of set cement was drilled out of the 4 3/8" 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
PJH:OH

R. D. BUSH

State Oil and Gas Supervisor

By Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED
MAY 14 1930
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

Memorandum of Failure to Give Notice

No. N 1-216

San Francisco, Cal. May 13, 1930

Mr. J. W. Wood,

142 Pine Ave., Long Beach, Cal.

WOOD-CALLAHAN OIL Company

(Title)

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;...."

R. D. Bush
State Oil and Gas Supervisor

Los Angeles, Cal. May 8 1930

MR. R. D. BUSH

State Oil and Gas Supervisor
San Francisco, Cal.

DEAR SIR:

"Wood-Callahan"

This is to report that WOOD-CALLAHAN OIL Company, operating at well No. 4, Section 13, T. 4 S., R. 13 W., S. B. B. & M., in Long Beach Oil Field, in Los Angeles County, failed to submit notice of intention to redrill oilstring & deepen (Drill, redrill, plug, deepen, test, abandon, etc.) 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, has been which is being performed without filing notice, is withheld.

Work being done ~~or completed~~ without filing notice:

8 1/2" casing shot 4260' to 4270' and drilled out through 8 1/2" casing to 6955'.

E. Augustini
Deputy Supervisor, District 1

611 New Orpheum Building
Los Angeles
May 8, 1930.

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

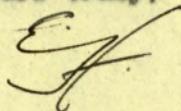
Dear Sir:

I am enclosing report No. N 1-216, Memorandum of Failure to Give Notice by Wood-Callahan Oil Company to redrill oil string and deepen well No. "Wood-Callahan" 4, Sec. 13, T: 4 S., R. 13 W., S. B. B. & M., Long Beach oil field.

You will note that the 8 $\frac{1}{4}$ " casing was shot at 4260' and the well deepened to 6955' 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-1-21654 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,



Deputy Supervisor.

BH:EMP

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T-1-20848

Los Angeles, Cal. May 7, 1930.

Mr. J. W. WOOD,

Long Beach, Cal.

Agent for WOOD CALLAHAN OIL COMPANY Company

DEAR SIR:

Operations at your well No. "WOOD-CALLAHAN" 4 Section 13, T.4 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
N. V. Slate, Driller.

Casing Record 15 1/2" cem. 714'; 8 1/4" cem. 4281'. W.S.O.; shot 4260'-4270'; 6 1/2" cem. 4766',
W.S.O. T.D. present hole 6955'. Junk: 8 1/4" 4260'-4281'; 6 1/2" perf. liner 4265'-4444',
with a bulldog spear and combination socket inside 6 1/2" 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 MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 4 1/4" casing at 6413' is hereby confirmed.

cc-Company
Long Beach
PJH:OH

[Handwritten initials]

R. D. BUSH

State Oil and Gas Supervisor

By *[Signature]* Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P-1-21654

Los Angeles, Cal. May 7, 1930.

Mr. J. W. Wood,

Long Beach, Cal.

Agent for WOOD-CALLAHAN OIL Company

DEAR SIR:

Your supplementary proposal to deepen Well No. "WOOD-CALLAHAN" 4, Section 13, T. 4-S., R. 13-W, S.B.B. & M., Long Beach Oil Field, Los Angeles County, dated May 5, 1930, received May 6, 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:

- 15 1/2" cem. 714'
- 8 1/4" " 4281', W.S.O. shot 4260'-4270'.
- 6 1/4" " 4766', W.S.O.
- T. D. 4824'
- Junk: 8 1/4" 4260'-4281'
- 6 1/4" perf. liner 4265'-4444'
- Bulldog spear & combination socket inside 6 1/4" casing, top at 4268'.

THE NOTICE STATES:

"The present condition of the well is as follows:

- 713 feet 15 1/2"
- 4280 " 8 1/4"
- 4765 " 6 1/4"
- 4 3/4" 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 (4 3/4" 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 4 3/4" 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:OH

R. D. BUSH
State Oil and Gas Supervisor

By.....Deputy

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P -1-21654

Page 2

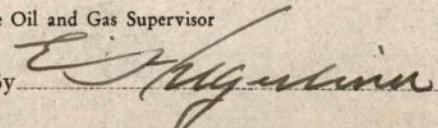
WOOD-CALLAHAN OIL Company

Well No. "WOOD-CALLAHAN" 4, Section 13, T. 4-S., R. 13-W., S.B. B. & M.,

4. The exact cementing depth for the $4\frac{3}{4}$ " casing shall be determined by careful coring, beginning not lower than 6350'.
5. The column of mud fluid back of the $4\frac{3}{4}$ " 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 $4\frac{3}{4}$ " casing.
 - (b) Bailing test of the $4\frac{3}{4}$ " shut-off.

R. D. BUSH

State Oil and Gas Supervisor

By  Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
MAY 6 - 1930
LOS ANGELES, CALIFORNIA

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 19

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 casing in well~~ No. (Sawyer) #2 ^{Wood-Callahan} 4
(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:

713 feet 15 1/2"
4280 " 8 1/4"
4765 " 6 1/4"
4 3/4" 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 (4 3/4" pipe)
5. Cement with at least 125 sacks of cement
6. Set 3" liner

Reference to me of data

Respectfully yours

Index	Model	Serial	Form
			121

Wood-Callahan Oil Co.

Name of Company or Operator

By J. Wood

611 New Orpheum Bldg.
Los Angeles
April 25, 1930.

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

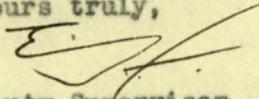
Dear Sir:

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., S1E.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,



Deputy Supervisor.

MC

cc- Long Beach

WOOD-CALLAHAN OIL CO.

3505 AMERICAN AVENUE
LONG BEACH, CALIFORNIA

DIVISION OF OIL AND GAS
RECEIVED

APR 23 1930

LOS ANGELES, CALIFORNIA

April 22 1930

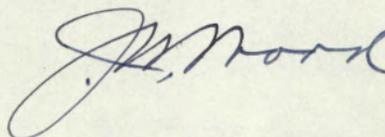
Division of Oil & Gas
Los Angeles., Calif.

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.



Wood Callahan &
13-4-13
Long Beach
formerly no. 2

611 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

*Production
file*

(COPY)

DIVISION OF OIL AND GAS
RECEIVED

APR 12 1930

LOS ANGELES, CALIFORNIA

April 11th 1930

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

Gentlemen:

The State Mining Bureau seems 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.

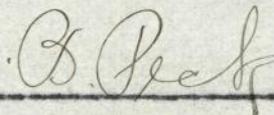
Will you, therefore, be kind enough to confirm in writing our statement over the telephone to them, that this well actually belonged to the Barry Oil Association up to January 20th 1930. The Mining Bureau has requested that we get in touch with you and have you confirm this statement to them in order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

Thanking you, we are,

Yours very truly,

BARRY OIL ASSOCIATION,

By



Assistant Secretary

Long Beach
Mar 20

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 Barry Oil Association will here-
after be known as your well No. "Wood-Callahan" 4.

cc-Long Beach

Corrections made as follows	By Whom
Weekly Summaries.....	
121.....	B
Elaw. and Log. Cards.....	✓
Production Reports.....	Emp
Well Records { Fields.....	
{ Reports.....	
Peg Models.....	AMJ
Graphics.....	MA
Field Maps.....	F.C.H.

By AMJ
2-8-30



STATE OF CALIFORNIA

DIVISION OF OIL AND GAS

FERRY BUILDING

FRED G. STEVENOT, DIRECTOR
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED

FEB 7 - 1930

LOS ANGELES, CALIFORNIA

R. D. BUSH
STATE OIL AND GAS SUPERVISOR

SAN FRANCISCO

February 5, 1930,

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,

State Oil and Gas Supervisor.

Case No.	Date	By
1021		

Handwritten initials: OK, and a signature across the bottom of the table.

✓ CC - Mr. E. Huguenin.

L.B.
Mar 20

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

Corrections Made as Follows	By Whom
Weekly Summaries.....	
121.....	✓ S
Flow and Log Cards.....	✓ me
Production Reports.....	✓ emp
Well Records { Reports.....	✓ AMJ
Gas Meters.....	✓ AMJ FCH

AMJ
2-8-30

WOOD-CALLAHAN OIL CO.

3505 AMERICAN AVENUE
LONG BEACH, CALIFORNIA

DIVISION OF OIL AND GAS
RECEIVED
FEB 3 - 1930
LOS ANGELES, CALIFORNIA

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.

J. Wood

Nov 9, 1929
2/3/30
Mr. Henderson
all confidential

~~As per~~
mu 9070

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off
(BAILING)

No. T -1-11442

Los Angeles, Cal.

Nov. 24, 1926

Mr. M. H. Soyster,

Los Angeles, Cal.

Agent for BARRY OIL ASSOCIATION COMPANY

DEAR SIR:

Your well No. 2, 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 November 8, 1926. Mr. H. M. Oliver
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. Biscailuz, 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 26 lb. } casing was cemented in shale
Formation

at 4766 ft. with 200 sacks Bear Brand cement by Thru casing method; 7-5/8" rotary tools
Size and kind were used in landing water string.

Casing record of well 15 1/2" cem. 714'; 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: 5 1/4" csg. 4260' to 4281'; 4 1/2" perf. liner 4265' to
(See * Below)

Reported total depth of hole 4824 ft. Hole bridged from - ft. to - ft. Hole cleaned out to 4824 ft. for this test.

At time of test depth of hole measured (See below) and bailer brought up sample of (See below)

At 8:00 p.m., Nov. 7, 1926 oil bailed to - ft., water bailed to 2500 ft.

At 2:30 p.m., Nov. 8, 1926 top of oil found at 2440 ft., top of water found at 2500 ft.

Result of bailing test:

*4444', with a bulldog spear and combination socket inside the 4 1/2" csg. with the top at 4268'.

MR. COLTON REPORTED THE FOLLOWING:

1. The 6 1/2" liner was plugged with cement from 4444' to 4308' and a spear and combination socket were lost from 4308' 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 4820'. 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 4824', 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

HMO:BB

By E. Huguenin Deputy

611 New Orpheum Building
Los Angeles
November 4, 1926

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

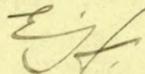
Dear Sir:

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. B. 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 $1\frac{1}{2}$ barrels per hour.

No report will be issued by this Department covering the mudding operations, but a statement will be made on the next "T" report issued, so that approval of the condition of the hole back of the $6\frac{1}{2}$ " casing will not be withheld.

Yours truly,



Deputy Supervisor

cc-Long Beach

EH:BB

well record

BARRY OIL ASSOCIATION

GENERAL OFFICES

544-48 CHAMBER OF COMMERCE BLDG.
12TH AND BROADWAY
LOS ANGELES, CALIFORNIACALIFORNIA STATE MINING BUREAU
RECEIVED
NOV - 4 1926
Department of Petroleum and Gas
LOS ANGELES, CALIFORNIANovember
3rd,
1926.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 $6\frac{1}{4}$ 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.

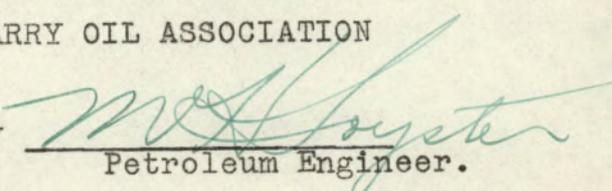
After circulating for 6 hours a measurement was made for over a period of one-half hour to determine the loss of mud from the pit. This loss was found to be at the rate of $1\frac{1}{2}$ barrels per hour. The above test was witnessed by Mr. L. W. Colton of the Henderson Petroleum Corporation, who reported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

The $6\frac{1}{4}$ inch casing was cemented in shale at a depth of 4766 feet on November 1st, 1926.

Yours very truly,

BARRY OIL ASSOCIATION

By


Petroleum Engineer.

MHS:DH

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. -1-13694

Los Angeles, Cal. August 30, 1926

Mr. M. H. Soyster,

Los Angeles, Cal.

Agent for BARRY OIL ASSOCIATION Company

DEAR SIR:

Your supplementary proposal to deepen Well No. 2,
Section 13, T. 4 S., R. 13 W. S. B. & M., Long Beach Oil Field, Los Angeles County,
dated Aug. 17, 1926, received Aug. 18, 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 $\frac{1}{2}$ " cem. 714',8 $\frac{1}{2}$ " " 4281', W.S.O.6 $\frac{1}{2}$ " liner landed 4444' to 4198', perforated 4444' to 4248', 60 mesh Lesco screen,
re-perforated 4440' to 4420', 5 rows $\frac{1}{2}$ " \times $\frac{3}{4}$ " perforations with 7" centers.**THE NOTICE STATES:**

"The new conditions are as follows:

In attempting to jar out the 6 $\frac{1}{2}$ " 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 8 $\frac{1}{2}$ " casing."

PROPOSAL:

"We now propose to

1. Shoot from 4250 feet to 4260 feet in an attempt to destroy the 8 $\frac{1}{2}$ " casing.
2. Drill through the shot cavity made in the 8 $\frac{1}{2}$ " 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 $\frac{1}{2}$ " 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.
4. Sufficient cement should be forced back of the 6 $\frac{1}{2}$ " casing to reach up to the shoe at 4281'. The cementing operations should then be concluded under pressure after closing in between the 6 $\frac{1}{2}$ " and 8 $\frac{1}{2}$ " casings.

KINDLY NOTIFY THIS DEPARTMENT TO WITNESS:

1. Final mudding operations before cementing the 6 $\frac{1}{2}$ " casing, and the cores taken from the well.
2. A bailing test of the 6 $\frac{1}{2}$ " shut off.

cc-Long Beach
Barry Oil Association.

HMO:BB

R. D. BUSH,

State Oil and Gas Supervisor

By E. Augenstein Deputy

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

CALIFORNIA STATE MINING BUREAU
RECEIVED
AUG 18 1926
Department of Petroleum and Gas
LOS ANGELES, CALIFORNIA

SUPPLEMENTARY NOTICE

Los Angeles, Cal. August 17, 1926

Mr. Emil Huguenin,

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

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. B. & M. Long Beach Oil Field,

Los Angeles County, must be amended on account of changed or recently discovered conditions.

The new conditions are as follows: In attempting to jar out the 6 1/2" 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 8 1/2" casing.

- 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."

suppl copy

Respectfully yours,

CC-Barry Oil Ass'n. L.A.

BARRY OIL ASSOCIATION
(Name of Company)

By *M. H. ...*
Petroleum Engineer.

Map	Model	Notes	Card	L.A.
			O.K.	✓

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. -1-13623

Los Angeles

Cal. Aug. 17

192. 6

Mr. M. H. Soyster

Los Angeles

Cal.

Agent for BARRY OIL ASSOCIATION

~~Company~~ ¹²¹

DEAR SIR:

Your.....proposal to deepen.....Well No. 2
Section 13, T 4 S, R 13 W, S.B. B. & M., Long Beach.....Oil Field, Los Angeles.....County,
dated Aug. 10....., 192. 6, received Aug. 11....., 192. 6, 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: At variance to those shown in the notice;

Our report No. T-1-9772 shows that the 15 $\frac{1}{2}$ " casing was cemented at 714' and the 8 $\frac{1}{2}$ " casing was cemented at 4281'.

THE NOTICE STATES:

"The present condition of the well is as follows: Total depth: 4444' (cemented plug all cleaned out).

Casing record: 15 $\frac{1}{2}$ " - 713'

8 $\frac{1}{2}$ " - 4283' W.S.O. O.K.

6 $\frac{1}{2}$ " - 4444' Top of liner at 4198'. Perforated from 4248' to 4444', to mesh Lesco screen. Reperforated from 4444' to 4420', 5 rows $\frac{1}{2}$ " x $\frac{3}{8}$ " perforations 7" centers.

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

PROPOSAL:

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

1. Plug 6 $\frac{1}{2}$ " liner solidly with cement from 4444' to 4295'.
2. Remove 6 $\frac{1}{2}$ " casing from 4295'.
3. Sidetrack 6 $\frac{1}{2}$ " casing from 4295' to 4444'.
4. Deepen to lower zone cementing 6 $\frac{1}{2}$ " water string at about 4730', depending upon cores to be taken below 4700'.
5. The formations to be left behind the 6 $\frac{1}{2}$ " 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 $\frac{1}{2}$ " 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 $\frac{1}{2}$ " 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 $\frac{1}{2}$ " casing to reach up to the 8 $\frac{1}{2}$ " shoe at 4283'. The cementing operations should then be concluded under pressure after closing in between the 6 $\frac{1}{2}$ " and 8 $\frac{1}{2}$ " casings.

KINDLY NOTIFY THIS DEPARTMENT TO WITNESS:

1. Final mudding operations before cementing
2. A bailing test of the 6 $\frac{1}{2}$ " shut off.

cc--Long Beach - Company

(cementing depth.
the 6 $\frac{1}{2}$ " casing and the cores that determine the /

R. D. BUSH,

State Oil and Gas Supervisor

By E. Auguein Deputy

HMO:L

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

CALIFORNIA STATE MINING BUREAU
RECEIVED
AUG 11 1926
Department of Petroleum and Gas
LOS ANGELES, CALIFORNIA

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'
8 1/4" - 4283'. W.S.O. O.K.
6 1/4" - 4444'. Top of liner at 4198'. Perforated from 4248' to 4444', 60 mesh Lesco screen. Reperforated from 4444' to 4420', 5 rows 1/2" x 3/4" 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 1/4" liner solidly with cement from 4444' to 4295'.
2. Remove 6 1/4" casing from 4295'.
3. Sidetrack 6 1/4" casing from 4295' to 4444'.
4. Deepen to lower zone cementing 6 1/4" water string at about 4730', depending upon cores to be taken below 4700'.
5. The formations to be left behind the 6 1/4" 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 3/4" perforated oil string.

deeper

Respectfully yours,

BARRY OIL ASSOCIATION (Name of Company or Operator)

By [Signature] Petroleum Engineer.

Reference to file of data

Table with columns: No., Date, Card, Form. Row 1: CC-Barry Oil Ass.-L.A., [initials], L.B. Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located

CALIFORNIA STATE MINING BUREAU
 RECEIVED
 JUN 5 1926
 Department of Petroleum and Gas
 LOS ANGELES, CALIFORNIA

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.

This is O.K. 2 originals were sent in on this subsequent work report

Signed [Signature] (President, Secretary or Agent)

Date May 28, 1926

Title Petroleum Engineer

Map	Specimens	Photographs	Charts	Diagrams	Notes

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 1/4" 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 4282' - 4283' around the shoe of the 8 1/4" casing.
 - " 28th Recemented 8 1/4" 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.

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. -1-15292Los Angeles Cal. June 15 1926Mr. M. H. SoysterLos Angeles Cal.Agent for BARRY OIL ASSOCIATION Company 121

DEAR SIR:

Your.....proposal to plug Well No. 2,
Section 13, T. 4 S, R. 13 W, S.B. B. & M., Long Beach Oil Field, Los Angeles County,
dated March 10, 1926, received June 5, 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-1-9772 shows that 15 $\frac{1}{2}$ " casing was cemented at 714' and that water was shut off by the 8 $\frac{1}{4}$ " casing at 4281'.**THE NOTICE STATES:**

"The present condition of the well is as follows:

Total depth 4444'.

Casing record:

15"

8 $\frac{1}{4}$ " - 4281'6 $\frac{1}{4}$ " - 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:

	Oil Bbls.	Water Bbls.	Per cent water	Days produced
Feb.	2362	1163	33%	22
Mar.	187	563	75%	6

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 $\frac{1}{4}$ " 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 $\frac{1}{4}$ " casing a recement job on the 8 $\frac{1}{4}$ " casing will be made."

RECOMMENDATION:

THE PROPOSAL COVERING WORK ALREADY COMPLETED IS APPROVED.

cc--Long Beach

HMO:L

R. D. BUSH,
State Oil and Gas Supervisor

By [Signature] Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

CALIFORNIA STATE MINING BUREAU
RECEIVED
JUN 25 1926
Department of Petroleum and
LOS ANGELES, CALIFORNIA

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 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'.

Casing Record:

15"
8 1/4" - 4281'
6 1/4" - 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:

~~The proposed work is as follows:~~

	Oil Bbls.	Water Bbls.	Per cent Water.	Days Produced.
February	2362	1163	33%	22
March	187	563	75%	6

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 1/4" 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 1/4" casing a re-cement job on the 8 1/4" casing will be made.

Respectfully yours,

BARRY OIL ASSOCIATION

(Name of Company or Operator)

By *[Signature]*
Petroleum Engineer.

Reference to file of data

Maps	Models	Cross Section	Cards	Forms

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

CALIFORNIA STATE MINING BUREAU
RECEIVED
JUN - 5 1926
Department of Petroleum and Gas
LOS ANGELES, CALIFORNIAFIELD Long Beach COMPANY BARRY OIL ASSOCIATIONTownship 4 S., Range 13 W., Section 13, Number of well 2.Signed M. A. Kyster
(President, Secretary or Agent)Date March 1st, 1926. Title Petroleum Engineer.
Reference to file of data

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.

Date	Event	Description
1925.		
November	9th	Well spudded.
"	12th	Cemented 70# - 15 $\frac{1}{2}$ " DBX casing at 714' with 350 sacks Bear brand cement and 40 gallons Stoneset chemical by Hamer method.
"	14th	Found 15 feet of hard cement above shoe of 15 $\frac{1}{2}$ " casing.
December	4th	Hole drilled to depth of 4027', twisted off 6" drill pipe. Top of fish at 732'. Began washing over and cut 6" drill pipe.
"	9th	Washed over and got out 6" drill pipe to 3327.08'.
"	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 Stoneset. 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 3327.08' to 4027'. Began making new hole.
"	13th	Cemented 8 thread - 36# - 8 $\frac{1}{2}$ " American Seamless casing at 4281', using 400 sacks Bear brand cement and 40 gallons Stoneset chemical.
"	20th	Top of cement found at 4273'. Bailed to 2000' and stood 8 hours for casing test. No water entered.
"	21st	Test of shut off on 8 $\frac{1}{2}$ " casing made by Mr. V. Austin of State Mining Bureau. The fluid rose 5 feet after standing bailed to 2000' for a period of 12 hours. Water shut off approved. (See Report # T-1-9772)
"	25th	Landed 246' - 6 $\frac{1}{2}$ " 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..... 13 W. Section..... 13 Number of well..... 2.

Signed..... *[Signature]*

Date..... March 1st, 1926. Title..... Petroleum Engineer.

(President, Secretary or Agent)

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

- 2593 - 2604 Hard sandy shale. No cut.
- 4425 - 4435 5' hard shale with thin streaks of sandy shale.
- 3' oil sand (Good)
- 4435 - 4444 3' of brown shale.

SUBMIT LOG IN DUPLICATE

Fill this blank in with typewriter. Write on one side of paper only

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

CALIFORNIA STATE MINING BUREAU

RECEIVED

JUN - 5 1926

Department of Petroleum and Gas
LOS ANGELES, CALIFORNIA

LOG OF OIL OR GAS WELL

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 [Signature]

Date March 1, 1926.

Title Petroleum Engineer.
(President, Secretary or Agent)

The summary on this page is for the ORIGINAL condition of the well

OIL SANDS

1st sand from _____ to _____ 4th sand from _____ to _____
2d sand from _____ to _____ 5th sand from _____ to _____
3d sand from _____ to _____ 6th sand from _____ to _____

IMPORTANT WATER SANDS

1st sand from _____ to _____ 3d sand from _____ to _____
2d sand from _____ to _____ 4th sand from _____ to _____

CASING RECORD

Size of Casing	Where Landed	Where Cut	Weight Per Foot	Threads Per Inch	Kind of Shoe	Make of Casing	Yes	No	Cemented	Number of Sacks
18 1/2"	714		70#	10	Plain 24"	DBX	X			350
8 1/2"	4261		36#	8	Plain	Amor Smls	X			400
6 1/2"	4444	4198	26#	10		DBX		X		

CEMENTING OR OTHER SHUT-OFF RECORD

Casing Size	Sacks	Time Set	Method	Test and Result (Give water level and balling results)
8 1/2"	400	7 days	Hamor	Bailed 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 0 ft. to 4444 ft.

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

PERFORATIONS

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

From	To	Size of Holes	Number of Rows	Holes Per Foot	Machine—Shop
4258 ft.	4444 ft.	60 mesh	6		Lesco Screen
ft.	ft.				
ft.	ft.				
ft.	ft.				