

GW - 158

**GENERAL
CORRESPONDENCE**

**YEAR(S):
1993 - 2004**



P. O. Box 52688
Lafayette, LA 70505
337.233.6666
FAX 337.233.6314
800.233.6666

October 7, 2004

**Water Quality Management Fund
C/O Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505**

RECEIVED

OCT 12 2004

OIL CONSERVATION
DIVISION

Dear Sirs:

Enclosed is a fully executed copy of the groundwater discharge plan application GW-158 for the Knight Oil Tools Service Yard, along with a check in the amount of \$1,700.00 for a renewal fee for Oilfield Service Company facilities. It is my understanding that we have previously mailed a check in the amount of \$100.00 for the filing fee.

If you have any questions feel free to contact me at 337-233-0464.

Sincerely,

**Mike Hamza
Vice President-Finance**

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 10/6/04
or cash received on _____ in the amount of \$ 1700⁰⁰
from KNIGHT OIL TOOLS
for FARMATION SERVICE YARD GW-158
Submitted by: RAYNE PRICE (Facility Name) Date: 11/3/04 (DP No.)
Submitted to ASD by: [Signature] Date: 11
Received in ASD by: _____ Date: _____
Filing Fee _____ New Facility _____ Renewal ☒
Modification _____ Other _____ (Optional)

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment _____

VOID AFTER 90 DAYS

TO THE ORDER OF: WATER QUALITY MGMT. FUND
C/O OIL CONSERVATION DIV.
1220 S. SAINT FRANCIS DR.
SANTA FE, NM 87505 USA

ONE THOUSAND SEVEN HUNDRED DOLLARS AND NO CENTS

PO BOX 52688
LAFAYETTE, LOUISIANA 70505

KNIGHT OIL TOOLS • FISHING SERVICES • WELL SERVICES • MANUFACTURING

BERIBANK
New Iberia, LA 70562

CHECK DATE 10/6/2004
CHECK NO. [REDACTED]

CHECK AMOUNT \$1,700.00

KNIGHT OIL TOOLS, P.O. BOX 52688, LAFAYETTE, LA. 70505 (337) 233-6666

INVOICE NUMBER	INVOICE DATE	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
DISCHARGE	10/6/2004		1,700.00	.00	1,700.00
CHECK NO. [REDACTED]		TOTALS	1,700.00	.00	1,700.00

+84 WATER QUALITY MGMT. FUND

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED

JUL 22 2004

OIL CONSERVATION
DIVISION

NM OIL CONSERVATION DV-EMNRDI

Attn: Wayne Price
1220 ST. FRANCIS DR

SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689

AD NUMBER: 00074506 ACCOUNT: 00002212

LEGAL NO: 74630 P.O. #: 05-199-050185

227 LINES 1 TIME(S) 99.88

AFFIDAVIT: 5.50

TAX: 7.05

TOTAL: 112.43

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, B. Perner, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 74630 a copy of which is hereto attached was published in said newspaper 1 day(s) between 07/21/2004 and 07/21/2004 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 21st day of July, 2004 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

B Perner

/S/

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 21st day of July, 2004

Notary *Laura E. Harding*

Commission Expires: *11/23/07*

[Signature]
[Signature]

www.sfnwmexican.com

**NOTICE OF
PUBLICATION**

**STATE OF
NEW MEXICO
ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-158) - Knight Oil Tools, Travis Woolf, Manger, P.O. Box 1320, Farmington, New Mexico 87499 telephone #505-632-6666, has submitted an application for a discharge plan for its service company yard, located 5970 US Hwy 64, San Juan County, New Mexico in SW/4 NW/4 NW/4 of Section 25 and E/2 of NE/4 Ne/4 of Section 26, Township 29 North, Range 12 west, NMPM, San Juan County, New Mexico. Primary business activity is rental of oil-field equipment. Groundwater most likely to be affected by these operations is at a depth of approximately 20 feet with a total dissolved solids concentration of 500 mg/l to 1000 mg/l. The discharge plan addresses how oil-field materials and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

Any interested person may obtain further information from the Oil Conservation Division and may submit

written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site

<http://www.emnrd.state.nm.us/oed/>. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of June 2004.

**STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION**

S E A L

**Mark Fesmire,
Director**

**Legal #74630
Pub. July 21, 2004**

AFFIDAVIT OF PUBLICATION

Ad No. 50194

STATE OF NEW MEXICO County of San Juan:

CONNIE PRUITT, being duly sworn says:
That she is the CLASSIFIED MANAGER of
THE DAILY TIMES, a daily newspaper of
general circulation published in English at
Farmington, said county and state, and that
the hereto attached Legal Notice was
published in a regular and entire issue of the
said DAILY TIMES, a daily newspaper duly
qualified for the purpose within the meaning of
Chapter 167 of the 1937 Session Laws of the
State of New Mexico for publication and
appeared in the Internet at The Daily Times
web site on the following day(s):

Tuesday, July 20, 2004.

And the cost of the publication is \$125.26.

Connie Pruitt

ON 7-22-04 CONNIE PRUITT
appeared before me, whom I know personally
to be the person who signed the above
document.

Gunny Beck
My Commission Expires April 2, 2008.

COPY OF PUBLICATION

918

Legals

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site <http://www.emnrd.state.nm.us/ocd/>. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of June 2004.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

Mark Fesmire, Director

Legal No. 50194 published in The Daily Times, Farmington, New Mexico on Tuesday, July 20, 2004.

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of June 2004.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

Mark Fesmire, Director

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 6/1/04

or cash received on _____ in the amount of \$ 100⁰⁰

from KNIGHT OIL TOOLS

for FARMINGTON YARD GL-158

Submitted by: WAYNE PRICE (Facility Name) Date: 6/8/04 (DP No.)

Submitted to ASD by: [Signature] Date: h

Received in ASD by: _____ Date: _____

Filing Fee ☒ New Facility _____ Renewal _____

Modification _____ Other _____
(separately)

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

KNIGHT OIL TOOLS 09-97		95-219-2472
PETTY CASH ACCOUNT		1070
P.O. BOX 1320 PH. 505-632-6666		9810199093
FARMINGTON, NM 87499-1320		DATE <u>6/1/04</u>
PAY TO THE ORDER OF <u>State of N.M. Energy Minerals + Natural Resources</u>		\$ <u>100.⁰⁰</u>
<u>Oil Conservation Division</u>		
<u>One Hundred dollars + no</u>		DOLLARS <input checked="" type="checkbox"/>
Wells Fargo Bank New Mexico, N.A.		
100 E. Broadway		
Farmington, NM 87401		
www.wellsfargo.com		
MEMO <u>Filing Fee</u>		<u>Iron Woody</u> MP

AFFIDAVIT OF PUBLICATION
Ad No. 43473

STATE OF NEW MEXICO
County of San Juan:

Alethia Rothlisberger, being duly sworn says: That she is the Classified Advertising Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Thursday, October 17, 2000

And the cost of the publication is \$84.38

Alethia Rothlisberger

ON 10/26/2000 Alethia Rothlisberger appeared before me, whom I know personally to be the person who signed the above document.

Daney L. Seade
My Commission Expires April 10, 2004



OK
[Signature]

COPY OF PUBLICATION

918

Legals

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-158) - Knight Oil Tools, Mike Hamza, Vice President, PO Box 52688, Lafayette, LA. 70505 has submitted a discharge application for their oilfield service facility located at 5970 U.S. HWY 64 in the NW/4 of Section 25 and NE/4 of Section 26, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Knight Oil Tools is an oilfield service company specializing in rental tools. Ground water most likely to be affected in the event of an accidental discharge is at a depth of less than 20 feet with a total dissolved solids concentration of approximately 600 mg/l. The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3-rd day of October 3, 2000.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

/s/Roger Anderson
Roger Anderson
for LORI WROTENBERRY, Director

SEAL

Legal No. 43473, published in The Daily Times, Farmington, New Mexico, Thursday, October 12, 2000.

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED

OCT 11 2000

NM ENERGY, MINERALS AND NATURAL RESOURCES DEPT.
ATTN: DONNA DOMINGUEZ
2040 SOUTH PACHECO STREET
SANTA FE, NM 87505

AD NUMBER: 175187 ACCOUNT: 56689
LEGAL NO: 68207 P.O.#: 00199000278
168 LINES 1 time(s) at \$ 74.06
AFFIDAVITS: 5.25
TAX: 4.96
TOTAL: 84.27

NOTICE OF PUBLICATION

**STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION**

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If no public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3-rd day of October 3, 2000.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
LORI WROTENBERY,
Director

Legal #68207
Pub. October 10, 2000

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, T. Ellsworth being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #68207 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/10/2000 and 10/10/2000 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 10 day of October, 2000 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

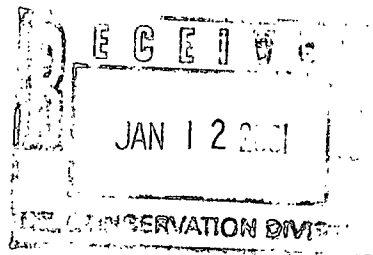
/s/

Laura C. Harding
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
9 day of October A.D., 2000

Notary

Commission Expires 11/23/03



December 10, 2000

**New Mexico Energy, Minerals, and
Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Sante Fe, NM 87505**

**Re: Knight Oil Tools, Inc.
Discharge Plan GW-158
5970 Highway 64
San Juan County, New Mexico**

Dear Sirs:

Enclosed is a signed copy of our conditions of approval.

Thank you for your assistance with this matter.

Very truly yours,

Mike Hamza



NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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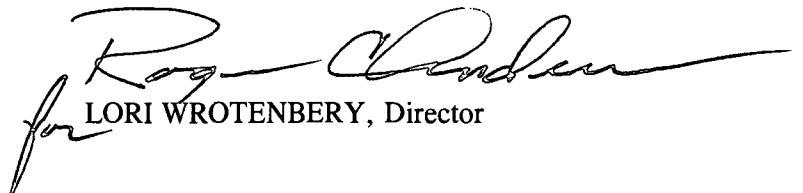
Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 3-rd day of October 3, 2000.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L


for LORI WROTENBERY, Director



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Environmental Consultants

P.O. Box 60295
Lafayette, LA 70596-0295

101 Credit Drive
Scott, LA 70583

Phone (337) 261-1963
FAX (337) 261-1953

September 29, 2000

New Mexico Oil Conservation
2040 South Pacheco Street
Sante Fe, NM 87505

Re: Discharge Plan GW-158
Knight Oil Tools
5970 U.S. Highway 64
San Juan County, New Mexico



Dear Sirs:

Enclosed are two (2) copies of the New Mexico Energy, Minerals and Natural Resources Department Discharge Plan for Knight Oil Tools in San Juan County, New Mexico. Also enclosed is the \$50.00 filing fee.

On behalf of Hydro-Environmental Technology, Inc. (HET), we appreciate the opportunity to provide you with these environmental services. Should you have any questions or need additional information, please feel free to contact us.

Sincerely,

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

John C. LaHaye, CSP
Senior Field Engineer

Stewart L. Stover, Jr.
Principal Hydrogeologist

JCL/SLS/eop

Enclosures

c: Aztec District Office
Mr. Mike Hamza - Knight Oil Tools

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 9/28/00
or cash received on _____ in the amount of \$ 50⁰⁰
from KNIGHT OIL TOOLS

for SAU JUAN COUNTY FACILITY GW-158

Submitted by: WAYNE PRICE (Facility Name) Date: 10/3/00 (DP No.)

Submitted to ASD by: [Signature] Date: 10/3/00

Received in ASD by: _____ Date: _____

Filing Fee ☒ New Facility _____ Renewal _____

Modification _____ Other _____
(quantity)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____



P.O. BOX 52688
LAFAYETTE, LOUISIANA 70505

IBERIABANK
New Iberia, LA 70562

Fifty and 00/100 dollars-----

TO THE
ORDER OF:

New Mexico Oil Conservation Division
2040 South Pacheco Street
Sante Fe, NM 87505

CHECK DATE CHECK NO.

9/28/00 [REDACTED]

CHECK AMOUNT

\$ 50.00-----

Wayne Knight
VOID AFTER 90 DAYS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Revised March 17, 1999

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal ☐ Modification

Oilfield service company that specializes in rental tools, such as tubulars,

1. Type: elevators, subs, valves, and blow out preventers.

2. Operator: Knight Oil Tools

Address: 5970 U.S. Highway 64

Contact Person: Dan Rogers

Phone: (505) 326-4042

See attached.

3. Location: /4 /4 Section Township Range

Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

11. Attach a contingency plan for reporting and clean-up of spills or releases.

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: MIKE HAMZA

Title: VICZ PRESIDENT - FINANCE

Signature: Mike Hamza

Date: 9/28/00

**DISCHARGE PLAN GW-158
Knight Oil Tools
5970 U.S. Highway 64
San Juan County, New Mexico**

September 28, 2000

Prepared for

**Mr. Mike Hamza
KNIGHT OIL TOOLS
P.O. Box 52688
Lafayette, Louisiana 70505
(337) 233-6666**

Prepared by

**HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
101 Credit Drive
Scott, Louisiana 70583
(337) 261-1963**

DISCHARGE PLAN GUIDELINES

1) TYPE OF OPERATION

Knight Oil Tools is an oilfield service company specializing in rental tools, such as tubulars, elevators, subs, valves, and blow out preventers.

2) Name of Operator or Legally Responsible Party and Local Representative

The operator of this facility is Knight Oil Tools.
The facility address is 5970 U.S. Highway 64 San Juan County , New Mexico.
The local contact is Mr. Dan Rogers, Store Manager.
Telephone: (505) 326-4042

The corporate facility is Knight Oil Tools.
The corporate address is P.O. Box 52688, Lafayette, Louisiana 70505-2688.
The corporate contact is Mr. Mike Hamza.
Telephone: (337) 233-6666

3) Location of Discharge Plan Facility

The Knight Oil Tools facility is located in the northwest and north east quarters of sections 25 and 26 respectively, of Township 29 North, Range 12 West of San Juan County.. The enclosed Figure 1 is a location map derived from a U.S.G.S 7.5 minute quadrangle of Horn Canyon, New Mexico.

4) Landowners

The current landowner of record for this facility is HML Leasing, Inc.
The corporate address is P.O. Box 52688, Lafayette, Louisiana 70505-2688.
The corporate contact is Mr. Mike Hamza.
Telephone: (337) 233-6666

5) Facility Description

The enclosed Figure 2 illustrates the approximate locations of property boundaries and pertinent structures.

6) Materials Stored or Used at the Facility

A. Drilling Fluids

There are no drilling fluids handled or stored at this facility.

B. Brines

There are no brine materials handled or stored at this facility.

C. Acids/Caustics

There are no acids or caustics handled or stored at this facility.

D. Detergents/soaps

There are no detergents or soaps utilized in washing activities at this facility.

E. Solvents and degreasers

Solvents and degreasers utilized at this facility are limited to Safety Kleen 105 parts washer solvent. This material is provided under contract by Safety Kleen, and used solvent is picked up for recycling on a scheduled basis. At any specified time, Knight Oil Tools maintains a maximum volume of five (5) 30-gallon drums of new (un-used material) material, and two (2) 25-gallon drums of used material.

F. Paraffin Treatment/ Emulsion breakers

There are no paraffin treatment or emulsion breaker materials used or stored at this facility.

G. Biocides

This facility uses an RGF closed loop washing/water treatment unit. The only material utilized for water treatment within the unit is hydrogen peroxide.

H. Paint, Pipe Coating, and Thinner

Paint, pipe coating and thinner are often used at this facility. This material is generally purchased for a specific job and used to completion. From the time of purchase till the time of use, and at any time that it is not in use, this material is stored in the areas specified for storage identified in Figure 2.

I. Diesel fuel

Diesel fuel is stored on-site in a 350-gallon aboveground storage tank, located within secondary containment. This fuel is used for forklifts and other off-road vehicles on site.

7) Sources and Quantities of Effluent and Waste Solids Generated at the Facility.

A. Sources

1. Truck wastes

Trucks utilized by this facility transfer no liquid or solid waste materials

2. Truck, tank and drum washing

The only washing on such equipment includes the exterior of trucks as a maintenance measure.

3. Steam cleaning of parts, equipment, tanks etc.

Upon receipt of returned rental equipment, Knight Oil Tools thoroughly inspects, pressure washes, and/or steam cleans (if necessary), and services and stores the equipment.

4. Solvent/degreaser use

Parts washer solvent Safety Kleen 105 is utilized for small parts cleaning, as well as cleaning of thread protectors. Useable solvent material is stored within the parts cleaner and thread protector cleaner until rendered waste. At that time it is collected by Safety Kleen for recycling.

5. Spent acids or caustics or completion fluids

Spent acids or caustics or completion fluids are not utilized at this facility.

6. Waste slop oil

There is no waste slop oil collected, transferred, or stored at this facility.

7. Used lubrication and motor oils

All motor oils are changed and recycled by third party contractors off-site.

8. Oil filters

Oil filters are changed and recycled by third party contractors off-site.

9. Solids and sludges from tanks

No solids or sludges are collected from tanks at this facility, however, solids collected within the equipment washing areas are properly disposed by Safety Kleen.

10. Painting wastes

Knight oil tools policy for paint and coating materials is to use the total volume of each container to prevent waste generation. If, however, paint or thinner waste is generated, it is properly containerized, labeled, and recycled by Safety Kleen.

11. Sewage

All sanitary waste is directed to the municipal sewer treatment facility.

12. Laboratory Waste

Laboratory wastes are not generated at this facility

13. Other liquid wastes

No other liquid wastes are generated at this facility.

14. Other solid wastes

No other solid wastes are generated at this facility.

B. Quality Characteristics

1. Provide concentration analysis for Total Dissolved Solids (TDS) and Major Cations/Anions, Ph, and Conductivity.

Due to a zero-discharge equipment wash system, no discharge has occurred, nor analyses conducted.

2. Provide hydrocarbon analysis for benzene, ethyl benzene, toluene, and meta-, ortho-, and Para-xylene.

Due to a zero-discharge equipment wash system, no discharge has occurred, nor analyses conducted.

3. Provide analyses for WQCC section 3103 standards not included within above analyses.

Due to a zero-discharge equipment wash system, no discharge has occurred, nor analyses conducted.

4. Discuss the presence or absence of toxic pollutants (WQCC 1101.TT) in each process where a discharge/possible discharge effluent may be generated. If present, provide volumes and concentrations. Estimates may be used pending director evaluation of discharge plan submittal and proposed discharge methods.

Due to a zero-discharge equipment wash system, no discharge has or will occur, nor analyses conducted.

5. Discuss sampling locations, methods, and procedures used to obtain values for #1, 2, and 3 on the previous page. Include information as to whether the sample was "grab" or "time composite", and sample collection and preservation techniques, laboratory used for the analysis, etc. Sources for sampling and analytical techniques to be used are listed in WQCC 3107.B.

Due to a zero-discharge equipment wash system, no discharge has or will occur, nor have any analyses been conducted

6. Discuss any variations that could produce higher or lower values than those shown by the sampling procedures outlined above in #5 - i.e. flow rate variations, process upsets, etc. If major variations are expected or inherent with a particular process, provide ranges and the expected average.

Due to a zero-discharge equipment wash system, no discharge has or will occur, nor have any analyses been conducted

C. Commingled Waste Streams.

1. If produced and process fluids are commingled within the facility, and if individual rates, volumes, and concentrations do not vary beyond a set range, and if process units are entirely self-contained to prevent intentional discharges and spills or inadvertent discharges, then chemical characterization of commingled effluent or process streams may be sufficient to satisfy discharge plan requirements.

Currently, no commingled waste streams exist at this facility.

2. If the discharger wishes to submit information on commingled streams in lieu of submittal of individual stream characteristics, adequate information should be provided to justify the request.

Currently, no commingled waste streams exist at this facility.

8) Description of Current Liquid and Solid Waste Collection/Storage/Disposal Procedures.

A. Summary Information

Equipment washing is conducted in a designated area with all contact water being collected within an in-ground concrete sump. All water collected within the sump is automatically transferred to the treatment system for reuse.

Containerized parts washer fluids, used and un-used, as well as paint and paint waste are stored on impermeable surfaces, within secondary containment.

Solid wastes generated from washing activities are contained within the sump of the wash system until recovered by Safety Kleen for recycling and disposal.

B. Collection and Storage Systems.

1. All potential water contaminants are contained within the zero-discharge wash system. These contaminants are never discharged to surface or subsurface. A concrete-lined collection sump is utilized for collection of washwater. Water is then transferred via underground lines to the zero-discharge washwater treatment system. Treated water is containerized within the system for wash water supply.
2. Diesel fuel is stored within a steel secondary containment storage area that is sufficient to contain a minimum of one and one half (1.5) of the total volume of the diesel tank. Drummed materials, such as paint, thinner, and parts cleaner solvent are also stored on impermeable surfaces, within secondary containment.
3. This facility transfers only untreated washwater through insulated underground piping to the wash water treatment unit.

C. Existing Effluent and Solids Disposal

1. On-Site Facilities

All materials requiring disposal are disposed off-site.

2. Off-Site Disposal

Wastewater sludges and solids are shipped via truck for off-site disposal.

The final disposal location for sludges and solids is Safety Kleen.

9) Proposed Modifications

A. There are no current proposed modifications for storage or collection for this facility.

B. There are no ponds, pits, or leach fields utilized by this facility.

10) Inspection, Maintenance, and Reporting

A. Surface impoundments and disposal units are not utilized at this facility. However, weekly inspections are conducted on the diesel storage tank during fueling activities. The inspections consist of identification of leaks or spills, condition of hose and nozzle, contents of secondary containment, and volume within tank. Additionally, paint and thinner inspections are conducted during each use activity. This inspection consists of noting condition, number, and contents of containers, as well as condition of secondary containment area.

B. Groundwater monitoring is not utilized to detect leakage at this facility.

C. Secondary containment is inspected regularly and immediately cleaned when spills occur. Cleaning consists of dry removal of waste with floor dry or absorbent pads, or vacuum of liquid waste. Precipitation collected within secondary containment is visually inspected for contaminants and discharged if non identified. This procedure assures structural integrity of containers and tanks, as well as facilitates clean-up of spills. In the event that water indicates some form of contamination, Knight Oil Tools contracts Safety Kleen to remove and washout containment areas.

11) Spill Contingency Plan

Spill Contingency Plan is enclosed in Appendix B.

12) Site Characteristics

Not applicable as instructed in the August 14, 2000 letter.

13) Other Compliance Information

There is no other available information to demonstrate compliance.

FIGURES

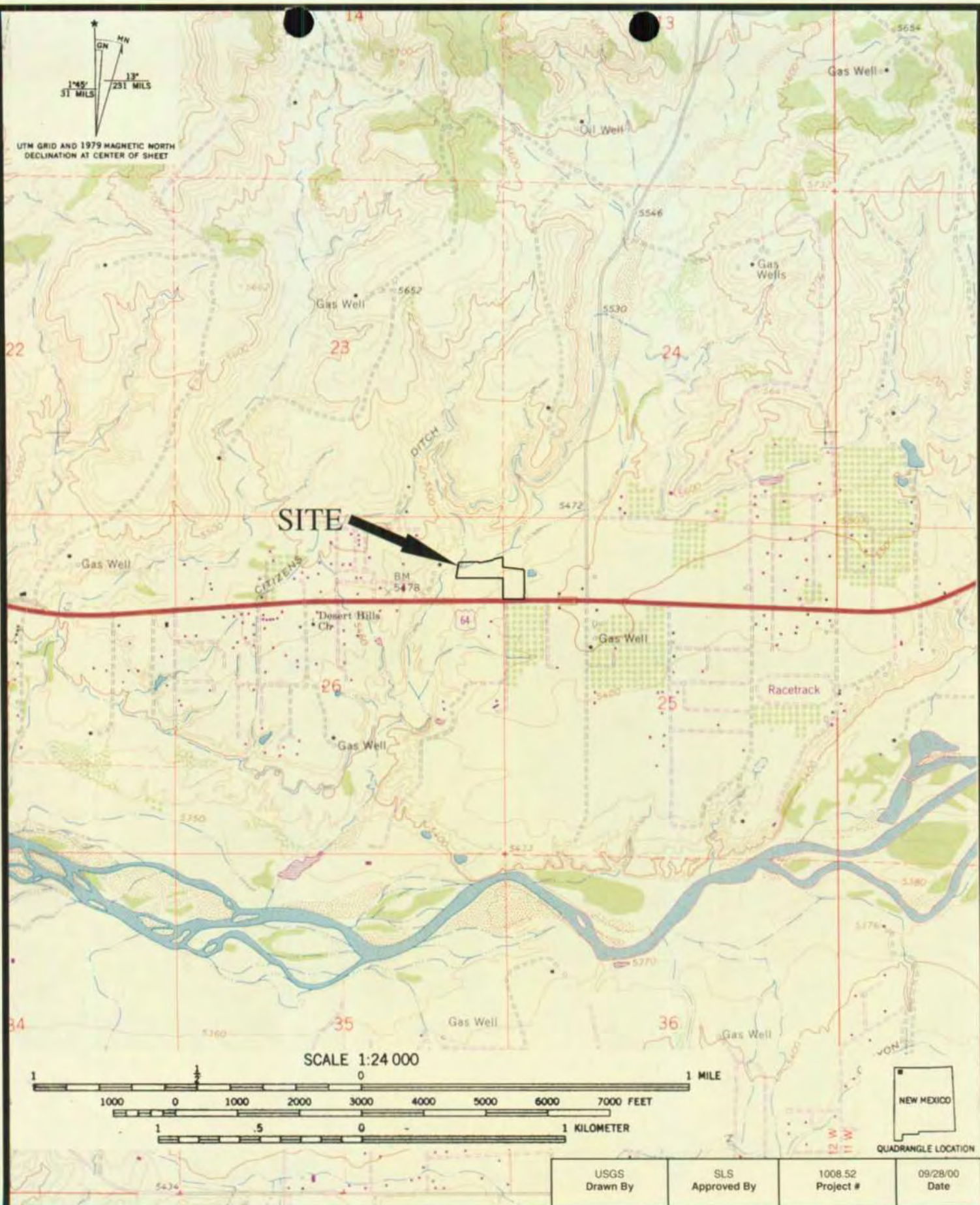
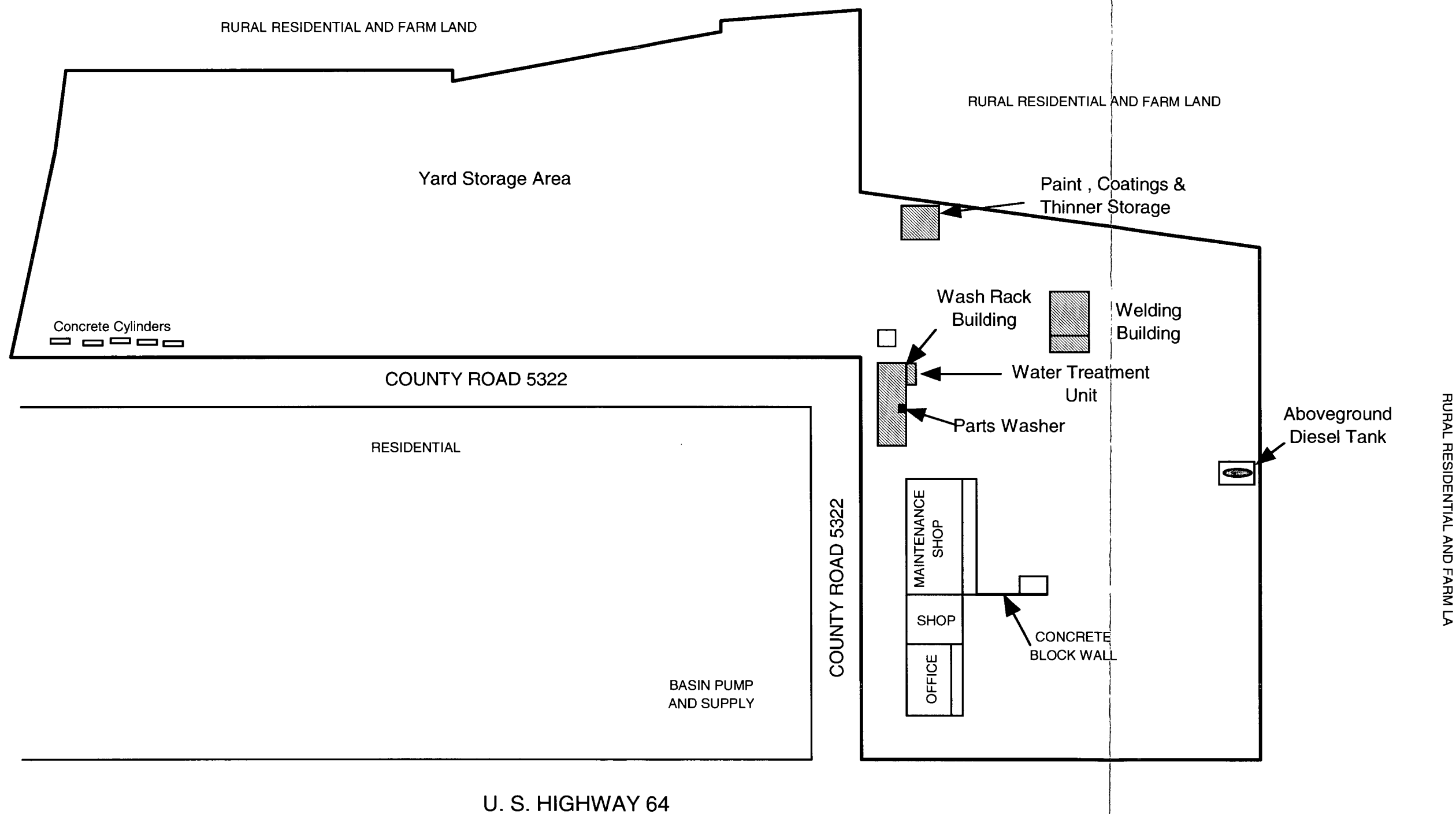


Figure 1. Site Location Map of the Knight Oil Tools facility located at 5970 U. S. Highway 64 in Farmington, San Juan County, New Mexico. Source: USGS 7.5 Minute Series, Horn Canyon, New Mexico Quadrangle.

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0 100 200

APPROXIMATE SCALE IN FEET

Figure 2. Generalized Site Plan Map of the Knight Oil Tools facility located at 5970 U. S. Highway 64 in Farmington, San Juan County, New Mexico.

JCL
Drawn By:

SLS
Approved By:

1008.52
Project #:

09/29/00
Date:



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APPENDIX B
SPILL CONTINGENCY PLAN

SPILL CONTINGENCY PLAN
Knight Oil Tools
5970 U. S. Highway 64
San Juan County, New Mexico

September 28, 2000

Prepared for

Mr. Mike Hamza
KNIGHT OIL TOOLS
P.O. Box 52688
Lafayette, Louisiana 70505
(337) 233-6666

Prepared by

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KNIGHT OIL TOOLS

POLICY STATEMENT

It is the policy of Knight Oil Tools that each and every one of our employees are entitled to work in a Safe and Healthy environment. To accomplish this, continued emphasis will be placed on Accident Prevention, Employee Health Protection, Protection of the Environment, and General Loss Control. Supervisors, Department Heads, and Employees at all levels of Knight Oil Tools work force are directed to protect the Environment and make Job Safety a matter equal in importance to all other company operations. Therefore, the control of these incidents will result in an efficient operation. The following guidelines are established to assist employees in the areas of Accident Prevention.

SCOPE

Pollution prevention and control is a responsibility shared by all employees at Knight Oil Tools. Our management is committed to emphasizing the importance of preventing accidents and controlling pollution of the environment. Everyone should be aware that the law provides severe penalties for failure to report a spill.

The following spill contingency plan covers all Knight Oil Tool activities. This plan will require modifications and revisions as the materials handling technology and available equipment indicate improvements. It will be reviewed annually and updated as required to reflect these changes.

I. PURPOSE AND IMPLEMENTATION

Knight Oil Tools has prepared a Spill Contingency Plan as required by the New Mexico Energy, Minerals and Natural Resources Department. This plan is designed to minimize hazards to human health and/or the environment from fires, explosions, or any unexpected releases of oils, hazardous waste, or hazardous waste constituents to the air, soil, or surface water.

This plan is to be implemented in the event of an emergency by Knight Oil Tools personnel and will be filed with the proper administrative authority (local fire and police departments, hospitals, and emergency response teams) upon approval.

All provisions of this plan must be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which affect the degree or type of possible emergency situation.

This plan shall be revised each time the facility operations are changed due to expansion, change in type or quantity of waste handled, or other changes which affect the degree or type of possible emergency situation.

II. CONTENTS OF THE CONTINGENCY PLAN

1. Describes the actions company personnel will take in response to fires, explosions, leaks, spills, or discharges of oils and hazardous wastes or hazardous substances.
2. Identifies the type and quantity of materials handled at the facility; spill preventive measures taken; and emergency response procedures.
3. Describes arrangements with the local police and fire departments, hospital, and state and local emergency response teams.
4. Designates an emergency coordinator and his responsibilities, and includes a comprehensive list of names, addresses, and phone numbers of key personnel.
5. Includes a list of emergency equipment and their locations, as depicted in the enclosed figure.
6. Includes an evacuation plan for facility personnel in case of fire. The evacuation plan is addressed in the Initial Emergency Response Procedures. The meeting places for evacuating personnel are indicated in the enclosed figure.

III. COPIES OF CONTINGENCY PLAN

This contingency plan has been submitted to the administrative authority for application, and upon approval, will become a condition of the issued permit.

A copy of the contingency plan and all revisions of the plan must be maintained at this facility, and additional copies should be submitted to all local police departments, fire departments, hospitals, and state and local response teams that may be called upon to provide emergency services.

Knight Oil Tools management is responsible for the accuracy of the plan related to regulatory issues, coordinating the distribution of the plan, and the preparation of any revisions to this plan.

A copy of this plan and any revisions will be:

- a. maintained at the facility;
- b. distributed by management to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, 2040 South Pacheco Street - Santa Fe, New Mexico 87505, and
- c. distributed by management to the following local facilities and emergency response team. The manager or his designee is responsible for ensuring the accuracy of the plan related to operational issues.

IV. AMENDMENTS OF CONTINGENCY PLAN

The contingency plan will be amended when one of the following occurs:

- a. The facility regulatory status is revised.
- b. The plan proves to be ineffective in an emergency.
- c. The facility changes in its design, construction, operation, maintenance, or other circumstances in such a way that increases the potential for fires, explosions, or releases of hazardous waste constituents, or changes the response necessary in an emergency.
- d. The list of emergency coordinators change, including phone numbers or addresses.
- e. The list of contractors and local authorities change, including phone numbers and addresses.
- f. The list of emergency equipment changes.
- g. Storage capacity of fuel, oil, and hazardous materials increases (e.g., adding new tanks).
At a minimum, at least once every three years, there will be a review, an evaluation, and a re-certification of the plan. Portions of this plan, not affecting the overall scope or design, may be changed without re-certification.

INTRODUCTION

I. FACILITY DESCRIPTION

The Knight Oil Tools facility is located at 5970 U. S. Highway 64, San Juan County, New Mexico. The facility is an oil field rental tool service and storage facility. The enclosed Figure 1 is a location map of the facility, Figure 2 is a site plan map for the facility.

II. FACILITY DRAINAGE

As indicated in the enclosed site plan map the facility drains , indirectly to Bayou Boeuf, while drainage from the Houma yard flows directly to municipal storm drains.

III. MATERIAL AND WASTE INVENTORY

Knight Oil Tools facility currently manages the following types of materials on site:

a. New Materials

1. Paint
2. Paint Thinner
3. Pipe Coating
4. Diesel Fuel

b. Waste Materials

1. Wash Water Solids/Sludges
2. Wash Water

Diesel fuel is stored and transferred at this facility. This fuel is stored in an on-site 350-gallon aboveground storage tank located within secondary containment.

Paint, Paint Thinner, and Pipe Coating are utilized at this facility. The Knight Oil Tool policy for use is to use 100% of the material to avoid unnecessary disposal. If, however, disposal is necessary, the hauling and recycling/disposal is contracted to a third party contractor. Equipment and parts washing is conducted on-site in a designated area. This wash water is collected , treated, and reused and is never discharged. If, the wash water has been deemed un-usable, it will be picked up by a third party contractor and recycled/disposed.

For each of the materials mentioned above, Material Safety Data Sheets and/or chemical analyses are available in the office area of the facility and will provide information on the chemical hazards.

INSPECTION AND RECORD KEEPING

The purpose of this section is to institute procedures to ensure that areas where hazardous or potentially hazardous waste containers are stored are inspected at least once a week. Although this facility does not normally store these types of waste, this portion of the plan will be submitted for future use if necessary. Inspection will include looking for leaking containers and deterioration of the containers and the containment system. Additionally, procedures will be established to aid in record keeping as required. The requirements for record keeping include inventory records of useable product, waste product, and accumulation date. Upon disposal/recycling activities, records are filed, in addition to manifest copies of materials returned. These records are to be retained for a period of three years from the date of activity.

WEEKLY INSPECTION FORM

An example of a typical Weekly Inspection Form utilized by Knight Oil Tools is enclosed in Appendix A of this document.

INVENTORY RECORD KEEPING FORM

An example of a typical Inventory Record Keeping Form is enclosed in Appendix B of this document.

EMPLOYEE TRAINING

Facility personnel are required to successfully complete a program of on-the-job training that teaches the employee to perform his/her duties in a manner that ensures the facility's compliance.

The program is directed by the emergency coordinator, who is trained in hazardous waste management procedures. His instruction teaches facility personnel hazardous waste management procedures, including implementation of this plan.

Upon completion of the training, facility personnel are able to respond effectively to emergencies, including the following:

- a. procedures for using, inspecting, repairing, and replacing facility emergency equipment;
- b. use of communications systems,
- c. response to fires or explosions,
- d. response to potential groundwater contamination incidents, and
- e. shutdown operations.

The facility personnel are trained in Hazard Communication, which enables them to respond effectively to emergencies by enacting emergency procedures, emergency equipment, and emergency communication systems. Personnel who handle, sample, or come in contact with oils or hazardous materials undergo basic training where pollution control is stressed. Spill prevention control procedures are thoroughly explained during training sessions. Items addressed during training sessions and meetings include hazardous waste identification procedures; station generation, and proper handling of hazardous waste and other toxic substances; proper storage, transportation, and disposal of hazardous waste.

All facility employees are trained at least once a year in accordance with Federal and State Hazardous Waste Regulations on spill contingency requirements. Training records on current employees will be kept until closure of the facility. Training records of former employees are kept for at least three (3) years from the date the employee last worked at the facility. Training records are maintained in the files located in the office.

Visitors will be given an orientation on safety and emergency procedures.

EMERGENCY PREPAREDNESS AND PREVENTION

I. Emergency Equipment

Knight Oil Tools facility is capable of responding immediately to an emergency on a 24-hour per day basis utilizing equipment described below.

There are fire extinguisher stations located strategically throughout this facility to respond to fires. Additional equipment is available for spill control and decontamination. Materials are stored within the main working area of the shop. Knight Oil Tools personnel are encouraged to clean-up manageable spills using dry recovery methods, such as floor dry and/or absorbent pads. If however a large spill occurs, vacuum trucks will be utilized to recover any waste materials released to water or soil. Upon filling of trucks, recovered material will be taken off-site for disposal. Shovels can be used in constructing dams or ditches to stop or direct the flow of the spilled material. Additional empty drums are available in the Drum Storage Area to collect any released materials. The facility also maintains first aid kits. The first aid kits are located in the shop area and office.

II. Inspection and Maintenance of Equipment

Knight Oil Tools personnel routinely inspect and maintain the emergency equipment to ensure its proper operation. The phone system is used each manned operating day. The fire extinguishing equipment is inspected and serviced by a fire and safety company contracted to inspect every six (6) months or as needed.

III. Communications and Alarm Systems

In the event of a hazardous material spill, Knight Oil Tools personnel involved in the operation have immediate access to telephones, either directly or through visual or voice contact with another employee. The internal and external communication equipment consist of a phone system with an intercom. Telephones are located in the office and shop area. Additionally, hand-held radios are available. Evacuation orders are to be given by the Emergency Coordinator or designated individual, over the intercom system.

CONTINGENCY PLAN AND EMERGENCY PROCEDURES

Emergency response procedures have been developed for Knight Oil Tools facility to provide guidance in responding to fires, explosions, or any unanticipated release of fuel or hazardous waste or hazardous waste constituents to the air, soil, or surface waters.

I. RESPONSIBILITIES OF ON-SITE PERSONNEL

A. Initial Emergency Response Procedures

Any individual who observes a spill or any other imminent or actual emergency situation will:

- a. Assess the situation to determine if it poses an immediate threat to human health or the environment.
- b. In the event of a fire, follow fire procedures as defined in this plan.
- c. Inform the Emergency Coordinator of the specifics of the situation.
- d. In the event of a spill, follow spill response procedures.
- e. Follow the instructions of the Emergency Coordinator.

If notification is given that an evacuation is necessary, all facility personnel will assemble in the emergency assembly area and upon command from the Emergency Coordinator, evacuate the facility via the primary evacuation route (through the main entrance) and await further instructions from the Emergency Coordinator. If direct access to the primary evacuation route is restricted by fire, spill, smoke, or vapor, facility personnel will evacuate the facility via the alternate evacuation route.

The Emergency Coordinator will:

- a. Assess the situation to determine if the situation is an immediate threat to human health or the environment and requires assistance from off-site personnel.
- b. If necessary, implement the facility evacuation plan.
- c. If necessary, notify local fire department, law enforcement authority, or health authority as appropriate.

Note: If in the event it is necessary to notify the fire department, law enforcement authority, or health authority, the following information should be provided.

- 1. Name of the caller and callback number
- 2. The exact location and nature of the incident
- 3. The extent of personnel injuries and damage
- 4. The extent of release
- 5. The wind direction and approximate velocity
- 6. The material involved and appropriate safety information
- d. Assemble the required personnel and equipment and respond to the incident if there is no immediate threat to human health.
- e. Sound the "All Clear" signal when the situation is remedied.

B. List of Emergency Coordinators

An Emergency Coordinator or Alternate is on the facility property or on call 24 hours per day. The Emergency Coordinator is thoroughly familiar with all aspects of the facility's Contingency Plan, all operations and activities at the facility, the locations and characteristics of all materials and wastes handled, the location of all records and emergency documents, and the facility layout. The Emergency Coordinator is responsible for assessing the situation, coordinating and directing response measures, and reporting to appropriate Knight Oil Tools personnel.

The Primary Emergency Coordinator for this Knight Oil Tools facility:

Primary Emergency Coordinator:

Store Manger

Dan Rogers

(505) 326-4042

II. SPILL AND FIRE RESPONSE PROCEDURES

A. Spill Response Procedures

The following is a list of procedures to be followed in the event of a spill. The actual responses will depend on site-specific situations such as the type and magnitude of the spill.

- a. Verbally notify Emergency Coordinator of the event.
- b. Assemble personnel in the assembly area and evacuate the facility, if necessary.
- c. If a drum or container or similar equipment is leaking or spilling, take necessary actions to stop spill.
- d. Remove or restrict any potential ignition source from the area.
- e. Barricade or isolate the area from unauthorized personnel.
- f. Assemble the required response equipment such as protective clothing and gear, heavy equipment (forklift, loader, etc.), absorbent material, and empty drums.
- g. Determine the most appropriate containment or diking method (construct a berm or ditch).

- h. After the spill is contained, apply appropriate absorbent material to collect spill. Use absorbent pads to collect the liquids in emergency diking.
- i. Remove all absorbed material or liquid contained by diking and package in UN-33 approved containers.
- j. Affected soil surfaces should be barricaded and covered with an impermeable surface until the soil can be tested. All testing of soil will be conducted by a New Mexico Oil Conservation Division (NMOCD) approved contractor, by approved methods. If the soil is found to be contaminated, soil remediation will be conducted as per NMOCD directives.
- k. To prevent contamination to surface water, the drainage ditches in the vicinity of the spill will be dammed.
- l. Use rags and/or absorbents to remove excess spill material from equipment and package in UN-33 approved containers.
- m. Label all containers with the type of waste and the start date of accumulation.
- n. Transfer the containers to designated Hazardous Materials storage area.
- o. Determine approximate quantity or volume of material recovered.
- p. Transport all equipment used in cleanup operations to the designated decontamination area for inspection and decontamination.
- q. Decontaminate all equipment used in cleanup by washing with soap and water within closed loop wash system.
- r. Collect residual liquids from skimmer assemblies in approved containers and store in the designated storage area for subsequent recycling.
- s. Store all equipment that cannot be decontaminated (absorbent pads) in approved containers for subsequent disposal.
- t. Verbally notify all involved personnel that "All Is Clear" when the situation is remedied.
- u. Replace all used materials and ensure all response equipment is in good working order.
- v. Arrange with approved recycling/disposal facility for proper recycling/disposal of containers and waste material.

B. Explosion Procedures

In case of an explosion, all personnel shall evacuate the area, and all corrective actions will be left to the fire department or the sheriff's department.

C. Fire Response Procedures

The facility personnel have been instructed to try to extinguish any small fires that may be encountered with the hand held fire extinguishers. If they are unable to do so, they have been instructed to retreat to the assembly area and follow the instructions of the Emergency Coordinator. All major fire-fighting actions will be conducted by the fire department.

IV. RESPONSIBILITIES OF ON-SCENE INCIDENT COMMANDER

Upon receiving spill information from the Emergency Coordinator, or his designated alternate, a specified individual will immediately assume the role of On-Scene Incident Commander.

The duties of the On-Scene Incident Commander are to:

- a. Obtain proper manpower and equipment.
- b. Obtain necessary equipment for spill cleanup.
- c. Coordinate disposal activities with Environmental Consultant.
- a. Ensure proper labeling of containers.
- e. Transfer containers of released materials to the hazardous waste storage area for temporary storage.

Upon receiving spill information from the Emergency Coordinator, the On-Scene Incident Commander will determine if the release requires reporting to regulatory agencies. Section 3.4 outlines the reporting requirements for fuel or hazardous material releases. If the On-Scene Incident Commander determines that the incident requires reporting, he will immediately notify appropriate regulatory agencies. This includes verbal notification, as well as written reports. In addition, the On-Scene Incident Commander will:

- a. Coordinate all containment, clean up and decontamination activities.
- b. Arrange for waste transport to an approved disposal facility within the applicable federal and state regulatory requirements.

Once the incident has been cleaned up, the On-Scene Incident Commander will be responsible for notifying the Department Administrative Authority and other appropriate state and local authorities, as necessary, that there were no incompatible wastes treated, stored, or disposed of from the facility until cleanup procedures were completed. Also, he must notify the authorities as appropriate that all of the emergency equipment listed in the contingency plan has been decontaminated.

V. NOTIFICATION AND REPORTING PROCEDURES

RULE 116 COMMITTEE PROPOSED REPLACEMENT RULE 116 FOR CURRENT RULE 116

116 Unauthorized Release Notification and Corrective Action

116.A. Notification: The Division shall be notified of any unauthorized release occurring during the drilling, producing, storing, disposing, injecting, transporting, servicing or processing of crude oil, produced water, condensate or oil field waste including regulated NORM, or other oil field related chemicals, contaminants or mixture thereof, in the state of New Mexico in accordance with the requirements of this rule. (1-1-50...-96)

116.B Reporting Requirements: Notification of an unauthorized release as defined in Rule A.7 shall be made by the person operating or controlling either the release or the location of the release in accordance with the following requirements:

- a. A Category I release shall be reported by giving both immediate verbal notice and timely written notice pursuant to Subsection C(1) and C(2) of this Rule. For purpose of this Rule, a Category I Release is either:
 - (a) a release of a volume in excess of 25 barrels; or
 - (b) A release of any volume, excluding natural gas, which:
 - (i) results in a fire;
 - (ii) will reach a water course;
 - (iii) may with reasonable probability endanger public health; or
 - (iv) results in substantial damage to property or the environment. [- - 96]

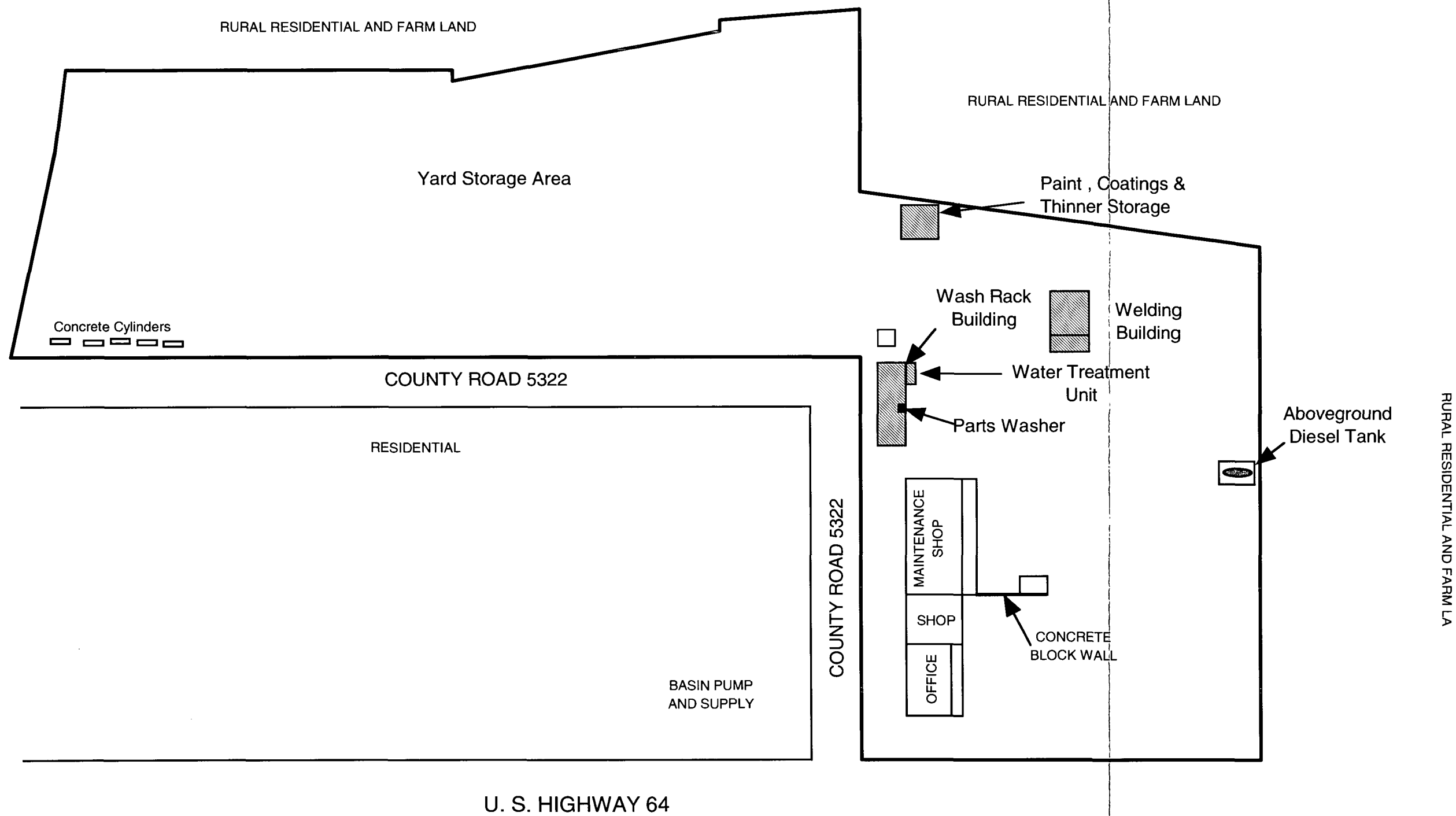
2. A Category II Release shall be reported by giving immediate verbal notice pursuant to Subsection C (1) of this Rule. For purpose of this Rule, a Category II Release is a release of any volume of natural gas, which:
 - (a) results in a fire;
 - (b) may with reasonable probability endanger public health; or
 - (c) result in substantial damage to property of the environment. [- - 96]
3. A Category III release shall be reported by giving timely written notice pursuant to Subsection C(2) of this Rule. For the purpose of this Rule, a Category III Release is a release of a volume, excluding natural gas, greater than 5 barrels but not more than 25 barrels. [- - 96]

116.C. Contents of Notification

1. Immediate verbal notification is required to be reported pursuant to Subsection B of Rule 116 shall be reported within twenty-four (24) hours of discovery to the District Office of the Division for the area within which this release takes place. This notification shall include the identification of the location of the release by quarter-quarter section, township and range; by distance and direction from the nearest town or landmark; the nature and estimated quantity of the loss and general conditions prevailing in the area; and any mitigation or corrective action being taken. [5-22-73... - - 96]
2. Timely written notification is required to be reported pursuant to Subsection B of Rule 116 with fifteen (15) days to the District Office of the Division for the area within which this release takes place by completing and filing Division Form C-141. [5-22-73...- -96]

116.D. Corrective Action: The responsible person must complete Division approved corrective action for unauthorized releases which endanger public health or the environment. Releases will be addressed in accordance with a remediation plan submitted to and approved by the Division or with an Abatement Plan submitted in accordance with Rule 19 (19 NMAC 15.A.19). [- - 96]

FIGURES



0 100 200

APPROXIMATE SCALE IN FEET

Figure 2. Generalized Site Plan Map of the Knight Oil Tools facility located at 5970 U. S. Highway 64 in Farmington, San Juan County, New Mexico.

JCL
Drawn By:

SLS
Approved By:

1008.52
Project #:

09/29/00
Date:



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
101 Credit Drive
Scott, Louisiana 70583
(318) 261-1963

APPENDIX A

KNIGHT OIL TOOLS
WEEKLY INSPECTION FORM
FOR HAZARDOUS WASTE MATERIALS

EPA Waste Codes F003, F005, D008, D018, D039, D040

Date	Signature of Inspector	Number of Containers	Containers Without Dates or Labels	Containers Over 90 days	Containers With Dents or Corrosion

Comments: _____

APPENDIX B

KNIGHT OIL TOOLS
MONTHLY INVENTORY INSPECTION FORM

Date	Inspectors Signature	Number of containers within Containment	Waste Solvent containers	Paint Waste Containers	Other Containers	General Conditions of Containment Area

Comments: _____



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 14, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 5093

Mr. Mark Knight
Knight Oil Tools
P.O. Box 52688
Lafayette, La 70505

Re: Discharge Plan GW-158
5970 US Highway 64
San Juan County, New Mexico

Dear Mr. Knight:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated June 09, 2000 and the enclosed discharge plan renewal fee of \$690.00. Please note the NMOCD acknowledges that Knight Oil Tools has assumed the discharge plan of the old Pioneer Contracting Company which was on the same contiguous site that Knight Oil Tools is now presently located.

Please note in order for the NMOCD to issue Knight Oil Tools an approved discharge plan, there must be a public notice issued by OCD and a waiting period of thirty days for public comments. In order for the OCD to issue a public notice we require that Knight Oil Tools fill out a discharge plan application and submit to the OCD along with a \$50.00 filing fee. Please find enclosed a blank discharge plan application form and a copy of the guidelines for your use. Since your facility business is different than the previous Pioneer Contracting Company, please supply all of the necessary information requested on the form, except, Item 12. "geological/hydrologic information" which may be waived since the previous discharge plan covered this item.

Please submit this information by September 30, 2000. If you have any questions please do not hesitate to call me at 505-827-7155 or write.

Sincerely Yours;

Wayne Price-Pet. Engr. Spec.

cc: OCD Aztec Office

attachments-2

June 9, 2000

**Mr. Wayne Price-Pet. Engr. Spec
New Mexico Energy, Minerals & Natural
Resources Department
Oil Conservation Division
2040 South Pacheco Street
Sante Fe, NM 87505**

**Re: Discharge Plan GW-158
5970 US Hwy 64
San Juan County, New Mexico**

Dear Mr. Price:

**We wish to renew the Discharge Plan (GW-158). Enclosed is our check
for \$690 for the renewal fee.**

Also enclosed is the signed:

**Attachment to the Discharge Plan GW-158 Approval
Knight Oil Tools (GW-158)
Discharge Plan Approval Conditions
March 28, 2000.**

**Please feel free to call me if you have any questions regarding this
letter. Your help with this permit is appreciated.**

Very truly yours,



**Mark Knight
Vice President**



ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 6/9/00
or cash received on in the amount of \$ 690⁰⁰
from KNIGHT OIL TOOLS
for FARMINGTON FACILITY GW-158
Submitted by: WAYNE PRICE (Family Name) Date: 6/12/00
Submitted to ASD by: Date: "
Received in ASD by: Date:
Filing Fee New Facility Renewal ✓
Modification Other
Organization Code 521.07 Applicable FY 2000
To be deposited in the Water Quality Management Fund.
Full Payment ✓ or Annual Increment



P.O. BOX 52688
LAFAYETTE, LOUISIANA 70505

IBERIABANK
New Iberia, LA 70562

CHECK DATE:	CHECK NO.:
6/9/00	<u> </u>

SIX HUNDRED NINETY DOLLARS AND NO CENTS*****

CHECK AMOUNT:
\$ *****\$690.00

TO THE
ORDER OF:

NEW MEXICO ENERGY MINERALS
& NATURAL RESOURCES
2040 SOUTH PACHECO STREET
SANTA FE, NM 87505 USA

VOID AFTER 90 DAYS



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

May 31, 2000

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFIED MAIL

RETURN RECEIPT NO. 5051 5710

Mr. Mark Knight
Vice President
Knight Oil Tools
P.O. Box 52688
Lafayette, LA 70505

RE: Discharge Plan GW-158
5970 U.U. Highway 64,
San Juan County, New Mexico

Dear Mr. Knight:

The New Mexico Oil Conservation Division (OCD) notified you via Certified Mail on March 28, 2000 that Knight Oil Tools would have the option of assuming the existing discharge plan or apply for a new plan if you decided to conduct business in New Mexico. Please note the OCD has called several times leaving messages for you to return our calls concerning this issue. As of this date, the OCD has not heard from you and more recently, the OCD Aztec office observed that Knight Oil Tools is conducting an oilfield service business at the above facility.

Please submit the previously requested information or contact this office (505-827-7155) no later than June 15, 2000 concerning this issue. Operating an Oilfield Service Company without an approved Discharge Plan may result in a notice of violation being issued Knight Oil Tools.

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD Aztec Office

COPY TO

CERTIFIED 5051 5703
KNIGHT oil Tools
P.O. Box 1320
FARMINGTON, NM 87499
TELE: 505-632-6666



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

March 28, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 4683

Mr. Mark Knight
Vice President
Knight Oil Tools
P.O. Box 52688
Lafayette, LA 70505

RE: Discharge Plan GW-158
5970 U.S. Highway 64,
San Juan County, New Mexico

Dear Mr. Knight:

Pursuant to our telephone conversation on March 28, 2000, please find enclosed a copy of the discharge plan GW-158, dated May 31, 1994. Please note, the new discharge plan approval conditions will be different and is enclosed and marked "Draft Approval Conditions." If you decide to renew the discharge plan GW-158 the fee will be \$690.00 for a five year period. A new discharge plan will be \$1380.00 for the first five years and then \$690.00 there after. Discharge plan fees are presently set by the New Mexico Water Quality Control Commission Regulations.

Please find enclosed a copy of the guidelines and an application for Oil Field Service facilities. Please note, any remediation and/or clean-up activities shall be approved by the OCD. If Your decision is to permit this facility then please send the application and any attached documents including a \$50.00 filing fee to Roger Anderson-Environmental Bureau Chief, Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.
Environmental Bureau
cc: OCD Aztec Office
attachments-4



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

April 2, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. P 288 259 111

Mr. Frank Santoro
5208 Foothills Dr.
Farmington, NM 87402-8277

**RE: Discharge Plan GW-158 Renewal
Pioneer Contracting Co.
San Juan County, New Mexico**

Dear Mr. Santoro:

On February 8, 1999 The New Mexico Oil Conservation Division (NMOCD) sent notification (copy enclosed) that the Discharge Plan for the above referenced facility had expired. This notification was returned to this office as non-deliverable. Upon checking with the local OCD District office we were informed that Pioneer Contracting Co. no longer has active operations at the permitted site located at 5970 U.U. Highway 64, San Juan County, New Mexico.

In order to close out the Discharge Plan and receive closure approval on this site you are instructed to contact OCD local representative Mr. Denny Foust at (505-334-6178) located in Aztec, NM. Mr. Foust will perform a walk-through inspection to determine if there are any deficiencies. If the inspection is satisfactory then OCD will issue you a closure approval letter.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr.. Spec.
Environmental Bureau

cc: OCD Aztec District Office

Attachments-1



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Price, Wayne

From: Price, Wayne
Sent: Sunday, March 28, 1999 11:06 AM
To: Foust, Denny
Subject: FW: Pioneer Contracting GW-158

Correction! Denny it appears they have moved, the new address is 5208 Foothills Dr, Farmington, NM 87402-8277. Please check out old yard, and let me know if new yard needs DP!
Thanks!

From: Price, Wayne
Sent: Sunday, March 28, 1999 10:59 AM
To: Foust, Denny
Subject: Pioneer Contracting GW-158

Denny, I sent Pioneer a DP notice and the return receipt was not delivered. Let me know if they are out of business and if they are could you check their yard to see if there are any problems!

Thanks! Wayne

FRANK SANTORO
324-0018



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

February 8, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. P 288 259 095

William T. Breadmont
Pioneer Contracting Company, Inc.
5970 U.S. Hwy. 64
Farmington, New Mexico 87401

**RE: Discharge Plan GW-158 Renewal
Pioneer Contracting Co.
San Juan County, New Mexico**

Dear Mr. Breadmont:

On May 31, 1994, the groundwater discharge plan, GW-158, for the Pioneer Contracting Company, Inc. Service facility located at 5970 U.U. Highway 64, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on May 31, 1999.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. The deadline for the 120 days was on January 31, 1999.** Pioneer Contracting Co. has failed to met the 120 day deadline before discharge plan expiration and therefore your discharge plan will expire on May 31, 1999 unless you have received an approved renewal from OCD. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. **To date the OCD has not received an application for renewal of GW-158.** Please indicate whether Pioneer Contracting Co. has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

William T. Breadmont
February 8, 1999
Page 2

The discharge plan renewal application for the Pioneer Contracting Company, Inc. Service facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50.00 plus a flat fee equal to one-half of the original flat fee for oil and gas service companies. The \$50.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** Copies of the discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on the New Mexico Environment Department's website at (www.nmenv.state.nm.us/).

If the Pioneer Contracting Company, Inc. Service facility no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If you have any questions please do not hesitate to contact Wayne Price at (505) 827-7155.

Sincerely,



Roger C. Anderson-Environmental Bureau Chief

RCA/lwp file: gw045ren.not

Attachments: Discharge plan application form

cc: OCD Aztec District Office

DATE	AMOUNT
9/14/95.....	\$1,380.00

DISCHARGE PLAN FEES GW-158

PIONEER CONTRACTING CO., INC.

5970 U.S. HWY. 64 PH. 505-632-2443

FARMINGTON, NM 87401

LIC. 026869

FIRST NATIONAL BANK

FARMINGTON, AZTEC,
BLOOMFIELD, SHIPROCK,

NEW MEXICO

95-54-1022

PAY

ONE THOUAND THREE HUNDRED EIGHTY DOLLARS AND 00/00

DATE

AMOUNT

9/14/95.....\$1,380.00

TO THE
ORDER
OF:

NMED-WATER QUALITY MANAGEMENT

PO BOX 6429

SANTA FE, NM 87505-6429



A handwritten signature in ink, appearing to be "Joe L. [unclear]", written over a horizontal line.

OIL CONSERVATION DIVISION

September 6, 1995

CERTIFIED MAIL**RETURN RECEIPT NO. Z-765-962-765**

Mr. William T. Breadmont
Pioneer Contracting Company, Inc.
5970 U.S. Highway 64
Farmington, New Mexico 87401

**RE: Discharge Plan Fees GW-158
Farmington Facility
San Juan County, New Mexico**

Dear Mr. Breadmont:

On January 19, 1995, Pioneer Contracting Company, Inc. received, via certified mail, a notice from the New Mexico Oil Conservation Division (OCD) reminding you that the flat fee of \$1,380 for the Farmington facility discharge plan GW-158 had not yet been received. On August 7, 1995, Pioneer Contracting Company, Inc. received, via certified mail, a second notice from the New Mexico Oil Conservation Division (OCD) reminding you that the flat fee still had not yet been received, and was due by September 2, 1995. As of this date, the OCD has not received the required flat fee.

Pioneer Contracting Company, Inc. will submit the \$1,380 flat fee in full by September 15, 1995 in order to be in compliance with Water Quality Control Commission Regulation 3.114.B.6, or the OCD will initiate enforcement actions which may include fines and/or an order to cease all operations at the facility.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If you have any questions regarding this matter, please contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

OIL CONSERVATION DIVISION

August 2, 1995

CERTIFIED MAIL**RETURN RECEIPT NO. Z-765-962-752**

Mr. William T. Breadmont
Pioneer Contracting Company, Inc.
5970 U.S. Highway 64
Farmington, New Mexico 87401

**RE: Discharge Plan Fees GW-158
Farmington Facility
San Juan County, New Mexico**

Dear Mr. Breadmont:

On May 31, 1994, Pioneer Contracting Company, Inc. received, via certified mail, a letter from the New Mexico Oil Conservation Division (OCD) stating that the discharge plan GW-158 for the farmington facility, located in the NE4 NE4 of Section 26, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico was approved. In that letter it was also stated that, in accordance with Water Quality Control Commission Regulation 3-114.B.6, a \$50 filing fee and a \$1,380 flat fee were required upon receipt of the approval letter. The \$50 filing fee was received by the OCD on March 29, 1994. On January 19, 1995 Pioneer Contracting Company, Inc. received a notice from the OCD reminding you that the flat fee had not yet been received. As of this date, the OCD still has not received the required flat fee. Please submit it by September 2, 1995.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If you have any questions regarding this matter, please contact Mark Ashley at (505) 827-7155.

Sincerely,



Roger Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Aztec Office

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505



January 19, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. P-176-012-091

Mr. William T. Breadmont
Pioneer Contracting Company, Inc.
5970 U.S. Highway 64
Farmington, New Mexico 87401

Re: Discharge Plan (GW-158)
Pioneer Contracting, Inc. Farmington Facility
San Juan County, New Mexico

Dear Mr. Breadmont:

A review of the file for discharge plan GW-158 for the Pioneer Contracting, Inc. Farmington Facility located at 5970 Highway 64, San Juan County, New Mexico has revealed that the thirteen hundred eighty dollar (\$1380.00) payment for the May 31, 1994 discharge plan approval has not been submitted to the Oil Conservation Division (OCD). These fees were due at the time of approval and were not received.

In order to be in compliance with Water Quality Control Commission (WQCC) Regulation 3-114 B.6, please remit the remaining balance in full to the OCD immediately. All checks should be made payable to: NMED-WATER QUALITY MANAGEMENT and addressed to the OCD Santa Fe office.

If there are any questions on this matter, please contact me at (505) 827-7153.

Sincerely,

A handwritten signature in cursive script, appearing to read "Chris Eustice".

Chris Eustice
Geologist

cc: OCD-Aztec Office

VILLAGRA BUILDING - 408 Galisteo

Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830

Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco

Office of the Secretary
827-5950

Administrative Services
827-5925

Energy Conservation & Management
827-5900

Mining and Minerals
827-5970

Oil Conservation
827-7131

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

fact will be managed.

(GW-158) - Pioneer Contracting Company, Inc., Frank Santoro, 5370 U.S. Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the NE/4 NE/4, Section 28, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 100 gallons per day of waste water is collected in a closed top fiberglass tank and recycled as drilling fluid. Groundwater most likely to be affected by an accidental discharge is at a depth of less than 20 feet with a total dissolved solids concentration of approximately 300 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the director determines there is a significant public interest.

If no hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

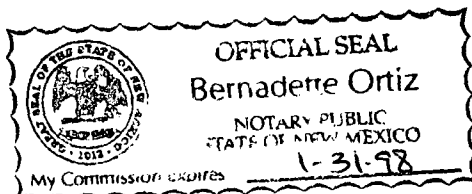
GIVEN under the Seal of New Mexico
Oil Conservation Commission at
Santa Fe, New Mexico, on this 5th
day of April 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s/WILLIAM J. LEMAY, Director
Journal: April 15, 1994

SS

Sworn and subscribed to before me, a notary Public in
and for the County of Bernalillo and State of New
Mexico, this 15 day of Oct, 1994.

PRICE \$59.80
Statement to come at end of month.



CLA-22-A (R-1/93) ACCOUNT NUMBER C81184

OIL CONSERVATION DIVISION
RECEIVED

94 APR 19 AM 8 50

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO,
County of San Juan:

No. 33124

ROBERT LOVETT being duly sworn, says: "That he is the CLASSIFIED ADVERTISING MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (DAYS) (//////) on the same day as follows:

First Publication SUNDAY, APRIL 10, 1994

Second Publication _____

Third Publication _____

Fourth Publication _____

and the cost of publication was \$ 85.81

On April 14, 1994 Robert Lovett ROBERT LOVETT

appeared before me, whom I know personally to be the person who signed the above document.

Mary H. Smith
Notary Public, San Juan County,
New Mexico.

My Comm expires: MARCH 21, 1998

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(BW-01) - Conoco, Inc., Jerry W. Hoover, 10 Desta Drive, Suite 100W, Midland, Texas, 79705, has submitted a renewal application for the previously approved discharge plan for their in situ extraction brine well facility located in the SW4 NW4, Section 2, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water produced from two water supply wells is injected down two brine wells to an approximate depth of 1650 feet and brine is extracted and piped to injection facilities for use in Conoco Waterfloods. The brine has an approximate total dissolved solids (TDS) concentration of approximately 300,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 70 to 145 feet with a TDS of 1150 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-164) Electric Submersible Pumps, Inc., Steve Denson, Manager, 8426 N. Dal Paso, P.O. Box 596, Hobbs, New Mexico, 88241, has submitted a discharge plan application for their Hobbs Service Facility located in the NW4, NW4, Section 35, Township 17 South, Range 38 East, NMPM, Lea County, New Mexico. Approximately 150 gallons per day of waste water is collected in a sump, pumped to an above ground closed top tank and disposed of offsite at an OCD approved disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 420 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-158) - Pioneer Contracting Company, Inc., Frank Santoro, 5970 U.S. Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the NE4 NE4, Section 26, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 100 gallons per day of waste water is collected in a closed top fiberglass tank and recycled as drilling fluid. Groundwater most likely to be affected by an accidental discharge is at a depth of less than 20 feet with a total dissolved solids concentration of approximately 600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-001) - Bloomfield Refining Company, Chris Hensley, Environmental Manager, P.O. Box 159, Bloomfield, New Mexico 87413, has submitted an application for the renewal of a discharge plan for the Bloomfield Refinery located in the NW4 NE4 and the S2 NE4 and the N2 NE4 SE4 of Section 27, and the S2 NW4 and the N2 NW4 SW4 and the SE4 NW4 SW4 of the NE4 SW4 of Section 28, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 115,200 gallons per day of process waste water with a total dissolved solids concentration of approximately 13,600 mg/l is disposed of in a UIC-permitted non-hazardous Class I disposal well. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth from 10 to 50 feet with a total dissolved solids concentration of approximately 4400 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed, as well as disposal of waste oil and solid wastes.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of April, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

SEAL

Legal No. 33124 published in The Daily Times, Farmington, New Mexico on Sunday, April 10, 1994.

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 3/23/94,
or cash received on 3/29/94 in the amount of \$ 50.00
from Pioneer Contracting Company, Inc.

for Farmington Service Company GW-158
(Family Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: Kathy Brown Date: 3/30/94

Received in ASD by: Ange Alice Date: 3/30/94

Filing Fee X New Facility _____ Renewal _____

Modification _____ Other _____
(Agency)

Organization Code 521.07 Applicable FY 94

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

PIONEER CONTRACTING CO., INC.

5970 U.S. HWY. 64 PH. 505-632-2443
FARMINGTON, NM 87401
LIC. 026869

FIRST NATIONAL BANK
FARMINGTON, AZTEC, BLOOMFIELD
SHIPROCK, NEW MEXICO
95-54-1022

PAY

FIFTY DOLLARS & NO/100*****

DATE
3-23-94

AMOUNT
\$50.00

TO THE
ORDER OF: NMED - WATER QUALITY MANAGEMENT

[Signature]



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

November 17, 1993

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-150

Mr. William T. Breadmont
Environmental Coordinator
Pioneer Contracting Company, Inc.
5970 U.S. Hwy. 64
Farmington, New Mexico 87401

**RE: DISCHARGE PLAN REQUIREMENT
PIONEER CONTRACTING COMPANY, INC.
SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Breadmont:

On July 26, 1993, the New Mexico Oil Conservation Division (OCD) requested that Pioneer Contracting Company, Inc. (PCCI) submit a discharge plan for your existing service facility located at 5970 U.S. Hwy 64, San Juan, County, New Mexico. The discharge plan, defined in Part 1.101.P. of the Water Quality Control Commission (WQCC) Regulations, should cover all discharges of effluent or leachate at or adjacent to the facility, plans for controlling spills and accidental discharges, and closure plans for any pits or ponds whose use will be discontinued.

On October 21, 1993, representatives of the OCD and PCCI conducted a discharge plan inspection at the facility. Certain items of concern were discussed and in response to this PCCI has submitted a summary of the concerns and solutions. Although the OCD recognizes the effort that PCCI has made, this is still not a formal discharge plan which the OCD requested that PCCI submit on July 26, 1993. To come under compliance PCCI must submit a discharge plan application with all of the appropriate information.

A copy of the WQCC regulations and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities was previously sent to you with the notification of the discharge plan requirement. If you need additional copies please contact the OCD Aztec

Mr. William T. Breadmont
November 17, 1993
Page 2

Office. Please note that two copies of your discharge plan application should be submitted to the OCD Santa Fe Office and one copy to the Aztec District Office for review purposes.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3-114 became effective as of August 18, 1991, and is found on page 33.1 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty (50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars (\$1380) which is due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. Please make all checks out to the **NMED - Water Quality Management**.

If there are any questions on this matter, please feel free to contact me at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script, reading "Kathy M. Brown".

Kathy M. Brown
Geologist

xc: Denny Foust, OCD Aztec Office

OIL CONSERVATION DIVISION
RECEIVED

'93 NOV 1 AM 9 30



PIONEER CONTRACTING COMPANY, INC.

5970 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-2443 FAX: (505) 632-1788
GCL NO.: 026869

October 20th, 1993

Kathy Brown
Oil Conversation Division
Environmental Bureau
Land Office Building
P. O. Box 2088
Santa Fe, NM 87504-2088

Re: Pioneer Contracting Company, Inc.
5970 US HY 64
Farmington, NM

Subject: Physical Site Inspection By The O.C.D.,
General House-Keeping Schedule

Dear Ms. Brown:

In response to your request I will attempt to summarize our round-table meeting regarding your inspection of our place of business. First let me address some of the issues that you, Mr. Foust and Mr. Ustus asked us to focus on to bring our general house-keeping up to date. They are as follows.

* Lower Yard:

- A. Label all petrochemicals that are not labeled, refined or unrefined. (containers)
- B. Contain any fuel supplies.
- C. Gather all empty containers and stack in one designated location according to size.
- D. Stack large empty drums in horizontal position, in contained area
- E. Label used oil tank.
- F. General preventive maintenance

* Upper Yard:

- A. Label all petrochemicals that are not labeled, refined or unrefined. (containers)
- B. Contain all fuel supplies.
- C. Contain all refined petrochemical supplies, Drums, paint supplies, five gallon containers, bulk holding tanks.
- D. Stack large empty drums in horizontal position, in contained area
- E. Add additional used oil tank at shop location.
- F. Empty used oil in 55 gallon drums into additional used oil tank located outside the shop bay doors. This oil is used to fuel PCCI winter heating systems.
- G. Gather all empty containers and stack in one designated location according to size.

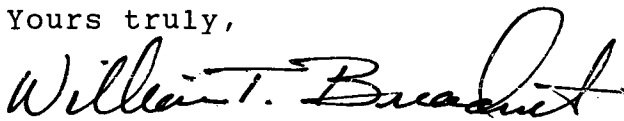
PIONEER CONTRACTING COMPANY, INC.

- H. Install PVC drain pipe with gate valve in low drainage areas and through berm areas.
- I. Continue scheduled physical inspection trips around the business location as a preventive maintenance tool.
- J. Continue general house-keeping on a daily basis.
- K. Discuss the scope of preventive maintenance with the field personnel and supervisors during all scheduled safety meetings.
- L. Upgrade control systems and eliminate waste containers on a yearly basis and as finance budgeting allows.

Secondly, I would like to comment on our approach to the upgrading and general everyday house-keeping schedule we are trying to follow. As you know and understand, PCCI is trying to comply with compliances as the cash-flow allows. As you mentioned, we do have advantages like having in-house labor and equipment to help us with the work and construction of all the items we discussed but as you know this is a direct overhead cost that we will have to budget into our yearly overhead projections. As this money is available we will continue the installation, construction and disposal of the items mentioned above.

Lastly, I would like to thank you for your thoughts and considerations during your on-site interview and inspection. We hope to make this a environmental show-place with a variety of different containment systems. We have a vast amount of experience in the area of environmental controls and offer you the use of this experience when you need it. If we may further assist you please feel free to contact us at anytime.

Yours truly,



William T. Breadmont

WTB/jgh

CC: FRANK SANTORO - PCCI
ERIC CAHENZLI - PCCI
TOM BOUNDS - PCCI
DENNY FOUST - OCD
KRIS USTUS - OCD

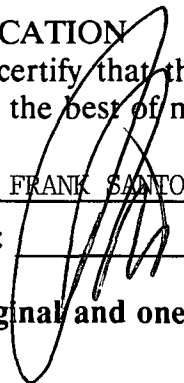
State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

RECEIVED

MAR 25 1994

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

(Refer to OCD Guidelines for assistance in completing the application.)
OIL CONSERVATION DIV.
SANTA FE

- I. TYPE: GENERAL CONTRACTING COMPANY
- II. OPERATOR: FRANK SANTORO
ADDRESS: 5970 US HIGHWAY 64 FARMINGTON NM 87401
CONTACT PERSON: WILLIAM T BREADMONT PHONE: 632-2443
- III. LOCATION: /4 /4 Section Township Range
Submit large scale topographic map showing exact location.
- IV. Attach the name and address of the landowner of the disposal facility site. SAME AS #I
- V. Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
- VI. Attach a description of all materials stored or used at the facility.
- VII. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- VIII. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- IX. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- X. Attach a routine inspection and maintenance plan to ensure permit compliance.
- XI. Attach a contingency plan for reporting and clean-up of spills or releases.
- XII. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.
- XIII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
- XIV. **CERTIFICATION**
I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: FRANK SANTORO Title: PRESIDENT/OWNER
Signature:  Date: 03-23-94

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

PIONEER CONTRACTING COMPANY, INC.

**VII. DESCRIPTION OF CURRENT SOURCES OF EFFLUENT AND WASTE SOLIDS.
INCLUDING WASTE WATER.**

- * ESTIMATED QUANTITY OF FRESH WATER USED DAILY - 100 gal.
- * ESTIMATED SEWAGE - 100 gal.
- * SOLID WASTE (COMMON GARBAGE) WOOD, PAPER,
GLASS, WIRE, CANS, SACKS, BAGS, ETC. PICKED
UP BI-WEEKLY BY WASTE MANAGEMENT, INC. - ?

- * ALL USED MOTOR OIL, SOLVENT, GEAR OIL, HYDRALIC OIL,
DESIELS, PAINT THINNERS ARE USED AS FUEL FOR OUR SHOP
HEATERS AND ARE STORED OUTSIDE THE SHOP IN A TANK, 750
GAL,

NOTE: PCCI HAS NO FLOOR DRAINS IN ANY OF THE COMPANY BUILDINGS.

PIONEER CONTRACTING COMPANY, INC.

VIII. DESCRIBE CURRENT LIQUID AND SOLID WASTE COLLECTION, TREATMENT & DISPOSAL PROCEDURES.

- * CURRENT LIQUID WASTE COLLECTION CONSIST OF NORMAL DAY-TO-DAY COLLECTION OF WASTE OIL FROM AUTOMOTIVE MAINTENANCE, GEAR OIL FROM PUMPING UNIT REPAIRS, HYDRALIC OIL FROM MACHINERY REPAIRS, VARIOUS TYPES OF FUEL AND OIL FILTERS AND CLEANING SOLVENTS. THE DISPOSAL OF THE USED PETROCHEMICALS ARE THROUGH A BURNING PROCESS USING OUR SHOP HEATERS. STORAGE FOR THE LIQUID WASTE IS IN TANKAGE OUTSIDE THE SHOP AREA STORED ON A CONCRETE PAD. FUEL FILTERS ARE PACKED IN STEEL DRUMS, SEALED AND SENT TO THE LOCAL SOILD WASTE DISPOSAL FACILITY BY A LOCAL ENVIRONMENTAL CLEAN-UP COMPANY OTHER THAN PCCI.
- * SOILD WASTE COLLECTION AND ASSOCIATED PROCEDURES CONSIST OF NORMAL DAY-TO-DAY GARBAGE COLLECTION, SOME USED 55 GAL DURMS, SMALL 1 & 5 GALLON CONTAINERS. THE GARBAGE IS PICKED UP BI-WEEKLY BY WASTE MANAGEMENT AND DISPOSED OF. ANY CONTAINERS REQUIRING DISPOSAL ARE PICKED UP BY A LOCAL ENVIRONMENTAL CONTRACTOR OTHER THAN PCCI AND TAKEN TO THE LOCAL SOLID WASTE DISPOSAL SITE FOR DISPOSAL.

PIONEER CONTRACTING COMPANY, INC.

IX. PROPOSED MODIFICATIONS TO EXISTING COLLECTION, TREATMENT & DISPOSAL SYSTEMS.

- * AST FUEL CONTAINERS WILL HAVE SECONDARY CONTAINMENT INSTALLED AROUND THEM IN YEAR 1994.
- * ALL EMPTY CONTAINERS WILL HAVE SPECIFIC HOLDING AREA FOR COLLECTION MADE OF CONCRETE WITH SECONDARY CONTAINMENT TO HELP PREVENT SUB-GRADE CONTAMINATION.
- * ADDITIONAL TANKAGE WILL BE ADDED FOR COLLECTION OF WASTE OILS, SOLVENTS. TANKAGE TO HAVE SECONDARY CONTAINMENT.
- * RAINWATER RUNOFF TO BE CONTROLLED WITH BERMS NEXT TO THE STREAM AND WETLANDS AREA WITH PVC PIPING AND VALVES FOR CONTROLLED DISCHARGE.

NOTE: TREATMENT AND DISPOSAL TO BE HANDLED BY A LOCAL ENVIRONMENTAL CONTRACTOR OR OTHER THAN PCCI.

X. INSPECTION, MAINTENANCE AND REPORTING.

- * THE UNDERGROUND FUELING SYSTEM (PIPING) IS MONITORED ON A DAILY BASIS WITH INLINE PRESSURE SYSTEMS. IN THE EVENT OF LEAKAGE THE DISCHARGE WILL BE HANDLED IN ACCORDANCE TO UST REGULATIONS.
- * PRECIPITATION RUNOFF WILL BE CONTROLLED WITH EARTHEN DIKES (Berms) IN SPECIFIC AREAS NEXT TO THE STREAM AND WETLANDS AREA ALONG WITH THE SUGGESTED PVC PIPING AND VALVES BY THE OCD. IF THE PRESENCE OF HYDROCARBONS SURFACES AT THESE LOCATIONS SAMPLES WILL BE TAKEN AND TESTED AND REPORTED TO THE REQUIRED AGENCIES, COLLECTED AND DISPOSED OF IN THE APPROPRIATE DISPOSAL FACILITY. CONTAINMENT AND CURBING WILL BE ADDED TO AREAS REQUIRING CONTROL METHODS.
- * INSPECTION OF THE ENTIRE PCCI FACILITY IS DONE ON A BI-WEEKLY SCHEDULE BY THE YARD MANAGER AND ENVIRONMENTAL COORDINATOR.

XI. CONTINGENCY PLAN FOR REPORTING AND CLEAN-UP OF SPILLS AND RELEASES.

- * PCCI WILL REACT ACCORDING TO THE ATTACHED SPILL RESPONSE PLAN ATTACHED. PLEASE REVIEW AND COMMENT.



**PIONEER CONTRACTING COMPANY
AND
PIONEER ENVIRONMENTAL CONTRACTING

EMERGENCY RESPONSE SERVICES

AND
QUALIFICATION STATEMENT**

QUALIFICATION STATEMENT

By definition, services in the 1990's will comprise all of the planned and systematic actions necessary to provide the most performance efficient, quality controlled and cost effective operational activities accessible to the client. However in the area of Emergency Response, time is of essence. In order to provide our clients with this quality and service, in a timely manner, Pioneer Contracting Company, (PCCI), has formed an intracorporate division, Pioneer Environmental Contracting, Inc., (PECI).

This Cooperative venture between Pioneer and PECI will provide our clients with an Emergency Response Team (ERT) that has the expertise ability and resources to respond quickly to the site of an emergency. This timely response will allow the ERT to gain control of the emergency quickly and lessen the hazards and environmental impact of the emergency. PECI will be providing the initial response personnel with technical support from PCCI.

In order to ensure safe quality service to the client, Pioneer and PECI have developed a standard set of protocols that will be used in each emergency response. These protocols are readily adaptable to specific emergencies and will insure a smooth working relationship between Pioneer, PECI and the Client.

The administration and management of PECI has provided environmental and hazardous waste site consulting, emergency response, and remediation nationwide for the last 7.5 years. PECI currently employs 10 full-time people, including 10 trained and certified field personnel.

PECI's personnel include chemist, biologist, hydrogeologist, electrical engineer, metallurgist, and equipment operators with experience in hazardous material responses that include:

- On-site identification of unknown hazardous materials
- Clean up of truck accidents that involved hazardous material
- Clean up and disposal of highly toxic chemical compounds
- Emergency response to mercury spills
- Spill response for Fernald Nuclear Facility
- Clean up of petroleum and PCB contaminated soils
- On-site solidification and stabilization of all types of gasoline and high octane fuels

PECI has the corporate expertise and commitment—as well as the requisite interdisciplinary technical skills and resource depth to provide excellent emergency response and successfully complete waste stream analysis and site remediation on RCRA, EPA, CERCLA/SARA, UST and NEPA sites throughout the United States.

PCCI was established in 1980 and became a New Mexico corporation in January of 1987. PCCI operates as a licensed general, mechanical and utility contractor experienced in, but not limited to, all phases of oil, gas and water pipeline design and fabrication, roustabout service and residential, commercial and industrial building design and construction.

PCCI's Emergency Response division, Pioneer Environmental Contracting, is presently engaging in scientific site assessment and construction remediation of hazardous waste contamination, including inspection, clean up and closure mitigation of hazardous waste materials and waste sites. PCCI is licensed to operate a hazardous waste transfer station located at 5970 US HWY 64, Farmington, New Mexico. PCCI has trained and certified personnel in hazardous waste operations to operate the transfer station and manage field operations. Pioneer Environmental also provides many types of environmental containment systems for primary and secondary storage containment of hazardous waste. These include synthetic liners, geo-net, geo-grids, geotextiles, modular storage tanks (steel), leak detection systems, fiberglass vessels and containers, plastic molded vessels and containers, and high density polyethylene and fiberglass secondary containment trench liner systems for containment of petrochemical piping systems.

The Pioneer/PECI Team offers the following hazardous material emergency response services:

- A 24-hour emergency response team, contacted via a 1-800 #
- "Haz-Cat" on-site identification and classification of unknown hazardous materials
- Containment and clean up of hazardous materials
- Packaging, manifesting, and shipping of hazardous waste
- Sampling of contaminated area
- Complete documentation of all site activities

The Emergency Response Team (ERT) will consist of a 4 man team. The ERT will have the capability of calling in additional personnel if the emergency requires a larger work force.

The ERT response vehicle will have a computer link-up to Tones Plus and Cameo, state-of-the-art hazardous material information systems. These systems will provide instantaneous data on community risk analysis, emergency response information, air dispersal modeling and population densities. This information is available to the ERT via the mobile phone and fax in the response vehicle. This information will be utilized to generate site specific health and safety plans, work plans, and reports to state and local agencies. State and local agencies will be provided with information needed to formulate evacuation plans if this should become necessary.

All members of the ERT carry the Skypager, a satellite messaging system that is connected to the 1-800 emergency response number.

All members of the ERT are trained in accordance with the training requirements of 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response, paragraphs (e) and (g).

All members of the ERT are under a medical surveillance program as required by 29 CFR 1910.120 paragraph (f).

The initial team will consist of a Field Team Leader, Site Safety Officer, Equipment Specialist, and Decontamination Personnel.

When called to the site of a hazardous material emergency, the response team will:

- Collect as much information en-route to the site as possible to determine the types and degree of hazards
- Upon arriving at the site, the response team will monitor the area and gain control of the area by setting up barriers to exclude unnecessary personnel from the site
- After securing the area the response team will establish work zones (Exclusion, Contamination reduction, Support)
- The response team will conduct a survey and reconnaissance of the site to:
 - Characterize the hazards that exist or potentially exist to the public health, the response personnel, and the environment
 - Verify the information obtained about the site
 - Evaluate the need for prompt mitigation actions
 - Collect additional information to determine the safety requirements of the response personnel.

The ERT will use the buddy system for all operations performed on the site.

The Field Team Leader will then determine the procedures and equipment needed to contain and stop the spread of hazardous material. Once the risk to the public health and the environment are under control and source mitigation is complete, the client will be contacted as to site remediation plans.

Site work will be carried out in accordance with all applicable Federal, State and Local regulations.

The responsibilities of the Field Team Leader include:

- Preparing and organizing all project work
- Selecting team personnel for each specific assignment
- Completing final reports and evidentiary file
- Ensuring that safety and equipment requirements are met
- Coordinating with outside agencies

The responsibilities of the Site Safety Officer include:

- Determining the level of personal protection required
- Updating equipment and procedures, as new information is gathered
- Changing the level of protection as needed
- Enforcing the safety requirements
- Stopping all work on site, if required, to ensure personnel safety
- Arranging for and notifying outside emergency services
- Monitoring team members for symptoms of exposure or stress
- Maintaining communications and line-of-site contact with team members
- Providing emergency medical care on site

The responsibilities of Equipment Specialist and Decontamination Personnel include:

- Designing and setting up the decon station
- Preparing the necessary decon solutions
- Ensuring that all equipment is available and properly operating
- Inspecting all equipment before and after use
- Ensuring that all personnel and equipment are properly decontaminated
- The proper disposal of all contaminated materials and decon solutions

Dual responsibilities may be assigned in order to maintain the minimum number of personnel on site.

The equipment will include:

Response vehicle with mobile phone and fax and the ability to transport the ERT and the following supplies:

Level (A) ensembles for all entry and backup personnel

- Pressure-demand full-facepiece SCBA
- Fully-encapsulating chemical-resistant suit
- Chemical-resistant safety boots
- Two-way radio communications

Level (B) ensembles for all entry and backup personnel

- Pressure-demand full-facepiece SCBA
- Chemical-resistant clothing
- Inner and outer chemical-resistant gloves
- Two-way radio communications
- Hard Hat

Level (C) ensembles for all entry and backup personnel

- Full-facepiece air-purifying respirator
- Chemical-resistant clothing
- Inner and outer chemical-resistant gloves
- Chemical-resistant safety boots
- Two-way radio communications
- Hard Hat

Air compressor (breathing air)

Spill clean up material such as:

- Spill kits containing absorbent pads, booms, pillows, shovels, and disposal bags
- Over-pack drums

Leak sealing equipment and tank truck leak repair kit

Fire extinguishers (2)

Monitoring equipment such as:

- Hazardous materials identification kit
- Combustible gas indicator
- Flame ionization detector
- Photoionization detector
- Radiation Monitor
- Oxygen monitor

Decontamination equipment such as:

- 25 gallons of decon solution with sprayers
- Decon shower
- Brushes
- Waste disposal containers

First aid kit, a supply of drinking water and heavy equipment are available, as needed, on emergency notice.

Emergency response charges are based on a call out charge, hourly rate, and Personal Protective Equipment.

Call out charge:

\$1,000.00 + \$.50 per mile

Hourly rate:

\$93.50 per man

Personal Protective Equipment Charge:

Level (A) \$265.00 per man

Level (B) \$199.00 per man

Level (C) \$ 66.00 per man

The ERT will use the level of protection needed to adequately protect the personnel involved in the response.

All disposable items will be charged at a cost plus 15%. Unless otherwise specified, these items include, but are not limited to, the following:

- absorbent materials
- overpack/disposal drums
- chemical neutralizers
- barricade tape
- decon supplies

Other direct cost, including but not limited to: sample analysis, heavy equipment, and subcontractors, are at cost plus 15%.

Reusable equipment, including but not limited to the following, used at the response site, will be charged at the following daily rate (A day is defined as 8 hours; use for any portion of the day requires a daily use charge):

- Field lab	\$200.00
- Flame ionization detector	83.00
- Jerorme 411 mercury vapor detector	70.00
- Air compressor	70.00
- Mercury vacuum	63.00
- Generator	50.00
- Light plant	50.00
- Explosion detection/oxygen meter	42.00
- Decon station	30.00
- Radiation monitor	10.00
- Sampling equipment	10.00
- pH meter	5.00

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

March 15, 1994

Mr. Jim Aldrich
Environmental Construction Superintendent
Pioneer Contracting Company, Inc.
5970 U.S. Highway 64
Farmington, New Mexico 87401

RE: Site Characterization
NMOCD Discharge Plan

Project No: 92200-02

Dear Mr. Aldrich:

Attached please find a report summarizing the "Site Characteristics" information requested to fulfill the NMOCD requirements for a discharge plan at your facility located at the above referenced address. A records search and data compilation has been completed to supply basic information concerning the hydrologic/geologic aspects of the subject site.

This information covers those items requested in the NMOCD publication "Discharge Plan Guidelines" as outlined in Section XII.

If you have any questions concerning this report or require any further information, please contact Envirotech at 632-0615.

Respectfully Submitted
ENVIROTECH, INC.

Robert E. O'Neill

Robert E. O'Neill
Environmental Engineer

92200-02.RPT

March 15, 1994

Project No: 92200-02

SITE CHARACTERISTICS, PART XII
NEW MEXICO OIL CONSERVATION DIVISION (NMOCD)
"DISCHARGE PLAN GUIDELINES"
PIONEER CONTRACTING COMPANY, INC.
5970 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401

INTRODUCTION

This section of the NMOCD requested discharge plan covers the hydrologic/geologic information associated with the subject site. The subject site is a staging facility for the above referenced oilfield contracting company. The facility is located in the SW $\frac{1}{4}$ /NW $\frac{1}{4}$ /NW $\frac{1}{4}$ of Section 25, and the E $\frac{1}{2}$ /NE $\frac{1}{4}$ /NE $\frac{1}{4}$ of Section 26, Township 29 North, Range 12 West, NMPM.

ITEM A.1.

A portion of a U.S.G.S. 7.5 Minute Series Topographic Map (Horn Canyon, New Mexico - Photorevised 1979) is included with this report to indicate the site location and associated streams, ditches, and rivers within a one mile radius of the subject site.

The Citizens Ditch, an irrigation water supply to the area is located at its closest point approximately 800 feet north of the subject site. The ditch flows in a west-southwesterly direction. Ditch elevation at this point is approximately 5520 feet above mean sea level. The subject site has an elevation ranging from 5440 feet to 5480 feet above mean sea level. The nearest water source is an ephemeral stream running through the property in the northwest portion of the property boundaries. A small stream of water was present when inspected on March 11, 1994. Water source for the stream is anticipated to be from possible return irrigation flows and from the shallow groundwater in the area. The stream discharges into the San Juan River at a point approximately 6300 feet southwest of the property boundary.

The attached map indicates a one-quarter mile radius area in which water wells have been researched. Water well records were searched in the following New Mexico State Engineers Office available lists:

1. "Records of water wells and springs in San Juan County prior to 1978."
2. "Records of water wells in San Juan County, 1978-83."
3. "Listing of points of diversion for the San Juan Basin in New Mexico." (2/07/92).

The following well records in the area were indicated:
(Township 29 North, Range 12 West)

OWNER	LOCATION (SECTION) (TRACT)	N.M. WELL #	YEAR	DEPTH TO WATER	USE	TOTAL DEPTH
Roy A. Runyan	S-25,14	1322	1981	20'	DOM	42'
Frankie J. Cross	S-25,14	0706	1978	20'	DOM	49'
-	S-25,11	2082	1986	3'	-	-
Sutherlen	S-25,12	0938	1979	40'	DOM	80'
Richard L. Kirby	S-25,14	0652	1979	20'	DOM	42'
Andrew L. Palmer	S-25,143	0617	1978	20'	DOM	47'
-	S-25,1441	0472	1978	14'	-	-
Dean Roquemore	S-26,21	0777	1978	20'	DOM	47'
-	S-26,22	1781	-	-	-	-
-	S-26,22	1783	-	-	-	-
Ewing H. Nunn	S-26,24	1194	1980	12'	DOM	38'

ITEM A.2.

Groundwater in the area of the subject site is estimated to be less than 20 feet below the ground surface. This estimate is based on water well records in the area and an observed small pond (elev. 5440) approximately 500 feet southwest of the subject site excavated into the groundwater only a few feet below the ground surface. Groundwater quality from this pond was tested in the field and found to have a pH of 7.8 and a conductivity of 1000 umhos/cm. Water from the stream on the property was sampled and indicated a pH of 7.2 and a conductivity of 900 umhos/cm.

ITEM A.3.

Soil type in the area of the subject site appears to be a mixture of a silty/sandy/clay/loam. The aquifer that would be affected by a discharge from the site is a shallow Quaternary alluvial type which overlies the Kirtland Shale Formation. Depth to bedrock in the area is unknown.

ITEM A.4.

The subject site is sloped to the west-northwest with an elevation drop of approximately 40 feet in 800 feet horizontal. Flooding potential on the majority of the site is low except in the immediate vicinity of the stream which flows through the northwest portion of the site. High stream flow due to major precipitation events could inundate the land area on either side of the stream bed. Buildings and most equipment on the site are situated at an elevation well above floodplain potential.

ITEM B


Contact was made on March 11, 1994 with Ms. Kathy Brown of the NMOCD who reviews service facility discharge plans at (505) 827-5884. She indicated that additional detailed information was not necessary for this site at this time.

LIMITATIONS

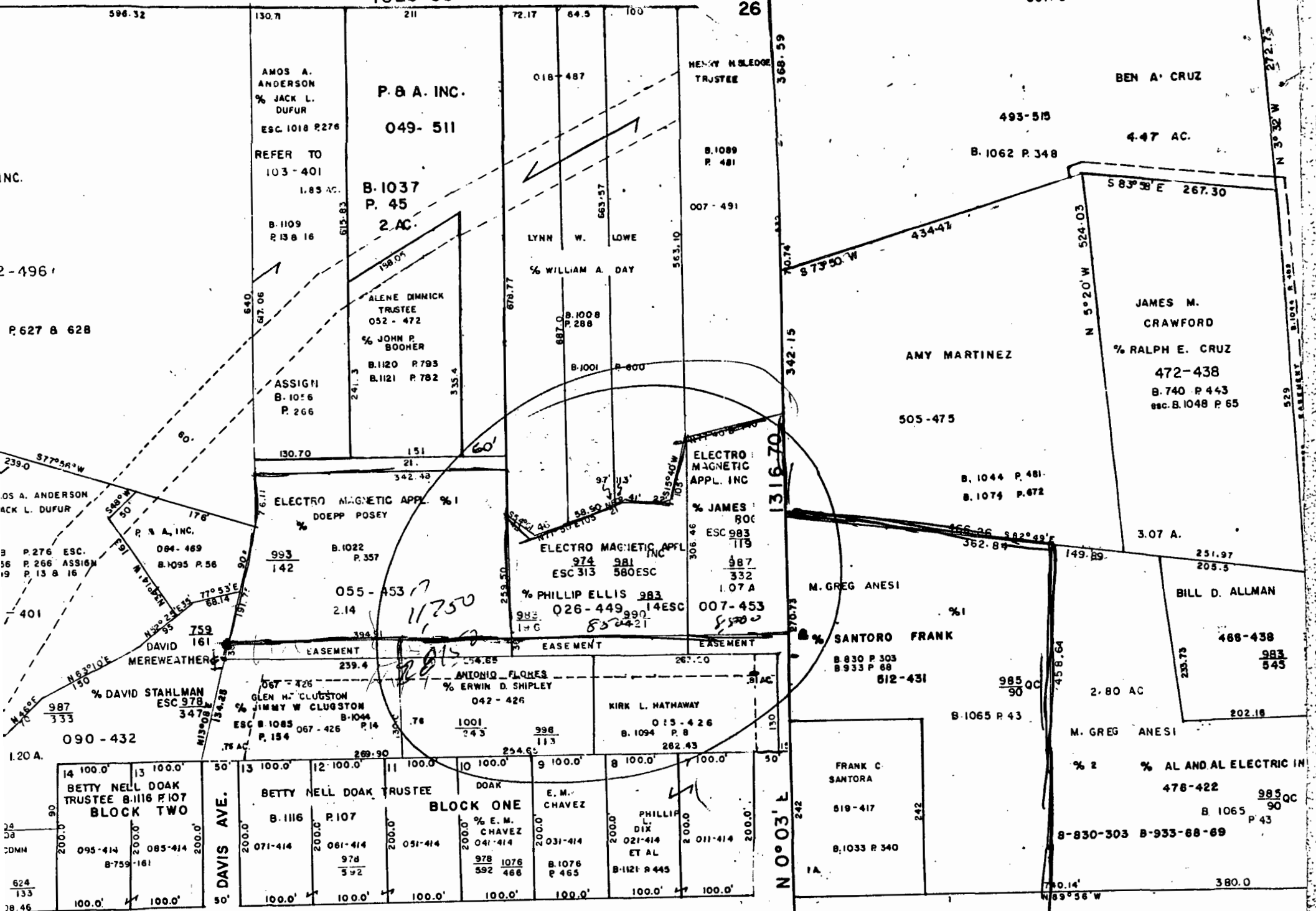
This site characterization was based upon currently available information obtained from site observations, the State of New Mexico and the United States Geological Survey. No attempt was made to perform a subsurface investigation to verify the information contained in this report as such was not included in the scope of this work.

All work has been performed in accordance with generally accepted professional practices in geotechnical/environmental engineering and hydrogeology.

Respectfully submitted,
ENVIROTECH, INC.

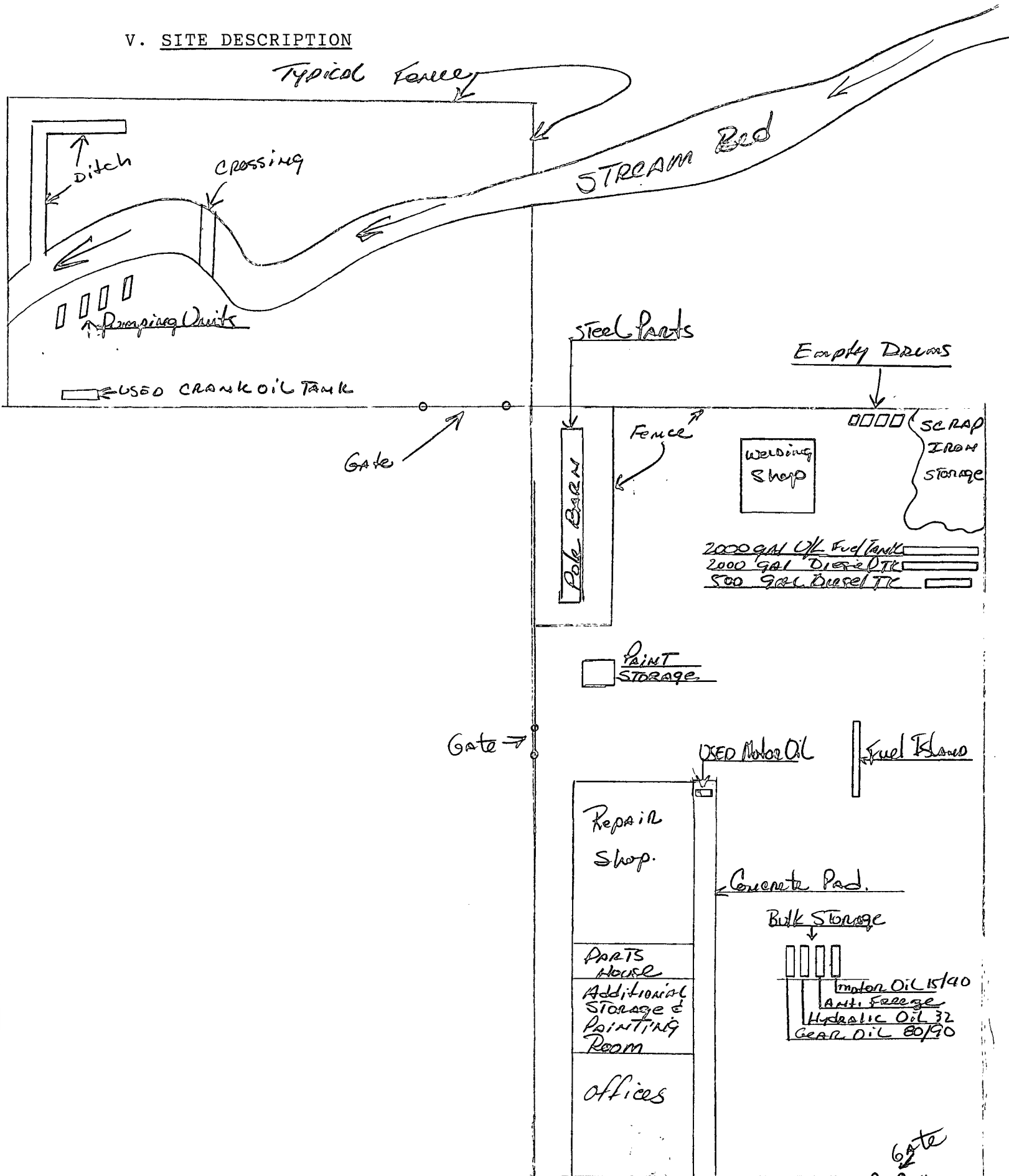


Robert E. O'Neill
Environmental Engineer



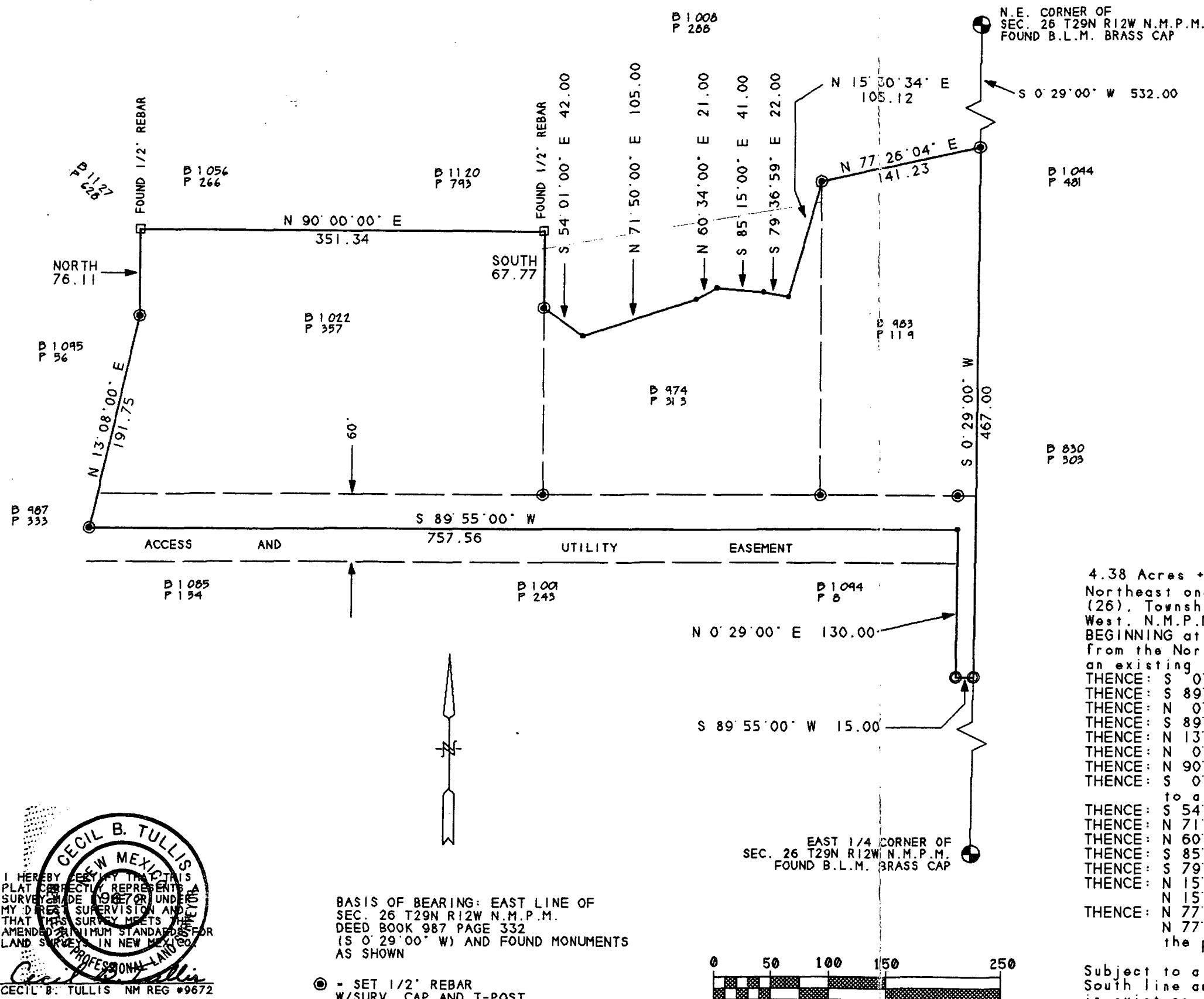
PIONEER CONTRACTING COMPANY, INC.

V. SITE DESCRIPTION



TRACT SURVEY FOR FRANK SANTARO

4.38 ACRES LOCATED IN THE NE/4.NE/4
OF SEC. 26 T29N R12W N.M.P.M.
SAN JUAN COUNTY NEW MEXICO



LEGAL DESCRIPTION

4.38 Acres +/- located in the Northeast one-quarter of the Northeast one-quarter (NE/4.NE/4) of Section Twenty-six (26), Township Twenty-nine (29) North, Range Twelve (12) West, N.M.P.M., San Juan County, New Mexico, described as follows: BEGINNING at a point that is 532.00 feet S 0° 29' 00" W from the Northeast corner of said Section 26, being in an existing stream:
THENCE: S 0° 29' 00" W 467.00 feet;
THENCE: S 89° 55' 00" W 15.00 feet;
THENCE: N 0° 29' 00" E 130.00 feet;
THENCE: S 89° 55' 00" W 757.56 feet;
THENCE: N 13° 08' 00" E 191.75 feet;
THENCE: N 0° 00' 00" E 76.11 feet;
THENCE: N 90° 00' 00" E 342.48 feet (record), 351.34 feet (found);
THENCE: S 0° 00' 00" W 65.00 feet (record), 67.77 feet (found) to a point in an existing stream:
THENCE: S 54° 01' 00" E 42.00 feet along said stream;
THENCE: N 71° 50' 00" E 105.00 feet along said stream;
THENCE: N 60° 34' 00" E 21.00 feet along said stream;
THENCE: S 85° 15' 00" E 41.00 feet along said stream;
THENCE: S 79° 36' 59" E 22.00 feet along said stream;
THENCE: N 15° 40' 00" E 105.00 feet (record) along said stream;
THENCE: N 15° 30' 34" E 105.12 feet (found) along said stream;
THENCE: N 77° 40' 00" E 140.00 feet (record) along said stream;
THENCE: N 77° 26' 04" E 141.23 feet (found) along said stream to the point of beginning.

Subject to a Thirty (30) foot access and utility easement along the South line and to any other easements or reservations of record of in existence.

DRAWN BY C.R.T.

JULY 2, 1992

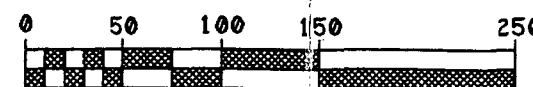
CECIL B. TULLIS
NEW MEXICO
I HEREBY CERTIFY THAT THIS
PLAT CORRECTLY REPRESENTS A
SURVEY MADE BY ME OR UNDER
MY DIRECT SUPERVISION AND
THAT THIS SURVEY MEETS THE
AMENDED MINIMUM STANDARDS FOR
LAND SURVEYS IN NEW MEXICO
CECIL B. TULLIS NM REG #9672

HIGH COUNTRY SURVEYS
FARMINGTON, NEW MEXICO

BASIS OF BEARING: EAST LINE OF
SEC. 26 T29N R12W N.M.P.M.
DEED BOOK 987 PAGE 332
(S 0° 29' 00" W) AND FOUND MONUMENTS
AS SHOWN

● - SET 1/2" REBAR
W/SURV. CAP AND T-POST

○ - SET 1/2" REBAR W/CAP



SCALE: 1" = 100'

PIONEER CONTRACTING COMPANY, INC.

VI. CURRENT MATERIALS STORED OR USED AT FACILITY

(SEE ATTACHED)

RECEIVED

MAR 25 1994

OIL CONSERVATION DIV.
SANTA FE

NATIONAL SANITARY SUPPLY CO.
13217 S. Figueroa Street
Los Angeles, California 90051
Emergency No. 1-800-535-5053 (IN-OTRAC)
Call nearest Sales Office for MSDS Information

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF PRODUCT

Product Name: ONE COAT HIGH SOLIDS
SCRUBBABLE

Date Issued: 5/04/80
Supersedes: 10/25/79
National Item: 22382X

SECTION 2. INGREDIENTS

CAS #

%

EXPOSURE LIMITS IN AIR
OSHA PEL ACGIH TLV OTHER

DIPROPYLENE GLYCOL
ETHYL ETHER

3459-94-8

4%

NOT
ESTABLISHED

NOT
ESTABLISHED

*THESE MATERIALS ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER SARA
TITLE III, SECTION 313 AND 40 CFR PART 372.
N/A = Not Applicable; N/D = Not Determined

SECTION 3. PHYSICAL DATA

Boiling Point (°F): 212

Specific Gravity (Water=1): 1.12

Vapor Pressure (mm Hg.): N/D

Percent Volatile (By Volume): 78

Vapor Density (Air=1): N/D

Evaporation Rate (Water=1): 1

Solubility in Water: SOLUBLE

pH Range: 9.0

Appearance and Odor: MILKY WHITE / SWEET SCENT

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): NON-FLAMMABLE

Flammable Limits: LEL= N/D

UEL= N/D

Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG

Special Fire Fighting Procedures: NORMAL FIRE FIGHTING PROCEDURES MAY BE
USED. COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE-EXPOSED
CONTAINERS.

Unusual Fire & Explosion Hazards: CONTAINERS MAY BURST IN HEAT.

SECTION 5. REACTIVITY DATA

Stability: STABLE

Incompatibility - Materials to Avoid: NONE KNOWN TO NSS.

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: NONE KNOWN TO NSS

Hazardous Decomposition Products: WHEN EXPOSED TO FIRE, PRODUCES NORMAL
PRODUCTS OF COMBUSTION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill Response: FOR SMALL SPILLS, DILUTE WITH WATER AND PICK UP WITH MOP
AND PAIL OR WET PICK UP VACUUM. FOR LARGE SPILLS, DIKE AREA TO
CONTAIN SPILL. CLEAN UP USING ADSORBENT MATERIAL. PLACE ALL
CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.

Product Disposal: WASTE FOR DILUTED PRODUCT MAY BE FLUSHED TO SEWER.
UNDILUTED PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO LICENSED
DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/
STATE REGULATIONS AND LOCAL ORDINANCES.

Container Disposal: TRIPLE RINSE EMPTY CONTAINER THOROUGHLY WITH WATER
AND DISCARD IN REGULAR TRASH COLLECTION IF ALLOWED BY LOCAL, STATE AND
FEDERAL REGULATIONS.

MATERIAL SAFETY DATA SHEET
Product Name: ONE COAT HIGH SOLIDS SCRUBBABLE
Date Issued: 05/04/90

PAGE 2

SECTION 7. HEALTH HAZARD DATA

Symptoms of Overexposure:

Eye Contact: MILD EYE IRRITANT.

Skin Contact: MILD SKIN IRRITANT. PROLONGED OR REPEATED CONTACT
WITH UNDILUTED PRODUCT MAY CAUSE IRRITATION.

Inhalation: N/A

Ingestion: LD-50 NOT ESTABLISHED

Primary Route(s) of Entry: EYES

SECTION 8. EMERGENCY AND FIRST-AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF RUNNING
WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYE LIDS APART DURING THE
IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH
WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Skin Contact: FLUSH THE AFFECTED AREA WITH LARGE QUANTITIES OF RUNNING
WATER WHILE REMOVING CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING
BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Inhalation: N/A

Ingestion: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK MILK OR WATER
AND GET MEDICAL ADVICE. VOMITING SHOULD BE INDUCED ONLY ON
RECOMMENDATION OF MEDICAL PERSONNEL.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: N/A

Ventilation: N/A

Protection Gloves: N/A

Eye Protection: N/A

Other Protective Clothing/Equipment: N/A

SECTION 10. ADDITIONAL INFORMATION AND PRECAUTIONS

SARA TITLE III H&P RATINGS: Acute, YES: Chronic, NO: Fire, NO:
Fire, NO: Press. Release, NO:

NFPA RATINGS: HEALTH -0 FIRE -0 REACTIVITY -0

Handling and Storage Precautions: STORE IN A COOL DRY PLACE.

SECTION 11. REGULATORY CLASSIFICATIONS

NON-REGULATED

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST
DATA AND BEST OPINION AS TO THE PROPER USE AND HANDLING OF THIS PRODUCT
UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF
APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE
PRODUCT LABEL DIRECTIONS, IS THE RESPONSIBILITY OF THE USER. THIS
MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD
COMMUNICATION REGULATION.

NATIONAL SANITARY SUPPLY CO.
13217 S. Figueroa Street
Los Angeles, California 90051
Emergency No. 1-800-335-5053 (INFOTRAC)
Call nearest Sales Office for MSDS Information

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF PRODUCT

Product Name: WHISTLE CLEAN

Date Issued: 07/01/92
Supersedes: 05/05/92
National Item#: 2123XX

SECTION 2. INGREDIENTS CAS NUMBER PERCENT EXPOSURE LIMITS IN AIR OSHA PEL ACGIH TLV OTHER

ISOPROPYL ALCOHOL	67-63-0	5-60	400 ppm	400 ppm	
CITRIC ACID	77-92-9	8-12	NE	NE	
PHOSPHORIC ACID	7664-38-2	4-6	1 MG/M3	3 MG/M3	
WATER		>80.00			

N/A = Not Applicable; N/D = Not Determined

SECTION 3. PHYSICAL DATA

Boiling Point (°F): <212	Specific Gravity (Water=1): 1.025
Vapor Pressure (mm Hg.): <17	Percent Volatile (By Volume): 95
Vapor Density (Air=1): ND	Evaporation Rate (Water =1): 1
Solubility in Water: SOLUBLE	pH Range: 1.5
Appearance and Odor: CLEAR RED/FLORAL SCENT	

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): NON-FLAMMABLE
Flammable Limits: LEL= N/A UEL= N/A
Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG

Special Fire Fighting Procedures: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED. COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE-EXPOSED CONTAINERS.

Unusual Fire & Explosion Hazards: CONTAINERS MAY BURST IN HEAT.

SECTION 5. REACTIVITY DATA

Stability: STABLE

Hazardous Polymerization: DO NOT ADD OXIDIZING AGENTS (BLEACH) TO THIS PRODUCT.

Conditions to Avoid: NONE KNOWN TO NSS

Hazardous Decomposition Products: WHEN EXPOSED TO FIRE, PRODUCES NORMAL PRODUCTS OF COMBUSTION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill Response: FOR SMALL SPILLS, DILUTE WITH WATER AND PICK UP WITH MOP AND PAIL OR WET PICK UP VACUUM. FOR LARGE SPILLS, DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.

Product Disposal: WASTE FOR DILUTED PRODUCT MAY BE FLUSHED TO SEWER. UNDILUTED PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO A LICENSED DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.

Container Disposal: TRIPLE RINSE EMPTY CONTAINER THOROUGHLY WITH WATER AND DISCARD IN REGULAR TRASH COLLECTION IF ALLOWED BY LOCAL, STATE AND FEDERAL REGULATIONS.

MATERIAL SAFETY DATA SHEET
Product Name: WHISTLE CLEAN
Date Issued: 12/20/92

PAGE 2

SECTION 7. HEALTH HAZARD DATA

Symptoms of Overexposure:

Eye Contact: EYE IRRITANT. IF NOT PROMPTLY TREATED, EYE DAMAGE MAY RESULT.

Skin Contact: SKIN IRRITANT. IRRITATION CAN OCCUR FROM CONTACT WITH CONCENTRATED PRODUCT OR FROM PROLONGED CONTACT WITH DILUTED PRODUCT. REPEATED OR PROLONGED EXPOSURE TO DILUTED PRODUCT MAY LEAD TO DERMATITIS.

Inhalation: NO HEALTH EFFECTS ARE KNOWN TO OCCUR FROM INHALATION OF THIS PRODUCT UNDER NORMAL USE IN A WELL VENTILATED AREA. HIGH AIRBORNE CONCENTRATIONS OF MISTS OR SPRAYS OF THIS PRODUCT MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT.

Ingestion: INGESTION OF THIS PRODUCT MAY CAUSE DAMAGE TO THE MEMBRANES OF THE MOUTH, THROAT, AND GASTROINTESTINAL TRACT WHICH THE PRODUCT CONTACTS. BURNS OF THE MOUTH AND THROAT, NAUSEA, VOMITING, CRAMPS, AND DIARRHEA MAY OCCUR.

Primary Route(s) of Entry: EYES, SKIN
THE ISOPROPYL ALCOHOL AND PHOSPHORIC ACID LISTED IN SECTION 2 ARE NOT LISTED ON THE OSHA, NTP OR IARC MONOGRAPH CARCINOGEN LISTS.

SECTION 8. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Skin Contact: FLUSH THE EFFECTED AREA WITH LARGE QUANTITIES OF RUNNING WATER WHILE REMOVING CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Inhalation: REMOVE FROM CONTAMINATED AREA. IF SYMPTOMS OF RESPIRATORY DISCOMFORT PERSISTS, GET MEDICAL ATTENTION.

Ingestion: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK MILK OR WATER AND GET MEDICAL ADVICE. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Ventilation: ROOM VENTILATION IS ADEQUATE.

Protection Gloves: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Eye Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Other Protective Clothing/Equipment: WHERE GROSS EYE OR SKIN CONTACT MAY OCCUR, USE APPROPRIATE PROTECTIVE EQUIPMENT.

SECTION 10. ADDITIONAL INFORMATION AND PRECAUTIONS

Handling and Storage Precautions: STORE IN A COOL DRY PLACE. REPLACE CAP AFTER USE. KEEP OUT OF REACH OF CHILDREN.

SARA TITLE III H&P RATINGS: Acute, YES; Chronic, NO; Fire, NO; Press. Release, NO; Reactive, NO;

NFPA RATINGS: HEALTH -2 FIRE -0 REACTIVITY -1 SPECIFIC -0

SECTION 11. REGULATORY CLASSIFICATIONS

NON-REGULATED

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST DATA AND BEST OPINION AS TO THE PROPER USE AND HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE PRODUCT LABEL DIRECTIONS, IS THE RESPONSIBILITY OF THE USER. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION REGULATION.



Conoco Inc.

LUBC0415



Revised 18-Jan-92

Printed 13-Feb-92

UNIVERSAL GEAR LUBRICANT

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Grade	80W-90, 85W-140	
Chemical Family	Petroleum Hydrocarbons	
Trade Names and Synonyms	7650, 7651 UGL	
CAS Number	Mixture	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

PHYSICAL DATA

Boiling Point	750 to 1200°F
Vapor Pressure	Nil

(continued)

PHYSICAL DATA (continued)

Vapor Density	>1 (Air = 1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild petro. hydrocarbon
Form	Liquid
Color	Dark brown
Specific Gravity	0.89 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing materials. Avoid heat and flame.
Decomposition	Incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	295°F
Method	PMCC
Autoignition	680°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.</p> <p>Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

HEALTH HAZARD INFORMATION

Primary Routes of Exposure/Entry: Skin.

(continued)

HEALTH HAZARD INFORMATION (continued)

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors. The product, as with many petroleum products, may cause minor skin, eye, or lung irritation, especially if poor hygienic practices or inadequate engineering design allow prolonged or repeated exposure.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
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Exposure Limits	
UNIVERSAL GEAR LUBRICANT	
TLV (ACGIH)	None Established
PEL (OSHA)	None Established

Safety Precautions	Wash thoroughly after handling. Wash clothing after use.
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FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
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Skin Contact	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If irritation develops, consult a physician.
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Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
--------------------	--

Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
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Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.
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PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None required except under unusual circumstances such as described in the Fire and Explosion Section.

Protective Gloves: None required.

Eye Protection: None required.

Safety Precautions: Avoid prolonged skin contact by practicing good personal hygiene and laundering contaminated clothing.

(continued)

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT

Proper Shipping Name	Not regulated.
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IATA/IMO

Proper Shipping Name	Not restricted.
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STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute	No
-------	----

Chronic	No
---------	----

Fire	No
------	----

Reactivity	No
------------	----

Pressure	No
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REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

The material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114

The material is not known to contain either a Hazardous Air Pollutant or a Volatile Organic Chemical.

(continued)

REGULATORY INFORMATION (continued)

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPREFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)

The material is not known to contain chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to toxic chemical release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	: Petroleum Hydrocarbons
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shoreline.

FOREIGN REGULATIONS

(continued)

REGULATORY INFORMATION (continued)

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)
The material is not a WHMIS Controlled Product.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s)
subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT
This material is not known to contain any ingredient(s)
subject to the Act. Non-hazardous ingredient(s)
information is withheld as trade secret in accordance
with Section 11 of the Pennsylvania Worker and
Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use: Petroleum Lubricating Oil

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

Safety, Health, & Env. Affairs
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS



Conoco Inc.

GREC0290



Revised 10-Mar-92

Printed 07-Apr-92

"SUPER-STA" GREASE

MATERIAL IDENTIFICATION

"SUPER-STA" is a registered trademark of Conoco.

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Grade	No. 1, No. 2	
Chemical Family	Petroleum Hydrocarbons	
Trade Names and Synonyms	9029, 9030 Grease, Petroleum, Super-Sta	
CAS Number	Mixture	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

(continued)

PHYSICAL DATA

Boiling Point	750 to 1200°F
Vapor Pressure	Nil
Vapor Density	>1 (Air = 1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild petro. hydrocarbon
Form	Solid
Color	Brown-green
Specific Gravity	0.89 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing materials. Avoid sparks and flame.
Decomposition	Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	300°F
Method	PMCC
Autoignition	700°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA). If material is heated to melt point, NFPA combustibility classes apply.
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

(continued)

HEALTH HAZARD INFORMATION

Primary Routes of Exposure/Entry: Skin.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

Mouse skin painting studies have shown that highly solvent refined petroleum distillates similar to ingredients in this product have not caused skin tumors. The product, as with many petroleum products, may cause minor skin, eye, or lung irritation, especially if poor hygienic practices or inadequate engineering design allow prolonged or repeated exposure.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits "SUPER-STA" GREASE	
TLV (ACGIH)	None Established
PEL (OSHA)	None Established
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

HIGH PRESSURE INJECTION INJURIES:

Accidental release of product during high pressure usage may cause penetration of the skin and cause a seemingly harmless wound that can lead to serious consequences. Have the wound treated by a physician.

Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult. High velocity injection under the skin can result in serious injury. When released by high pressure equipment, this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can eventually effect the palm of the hand. Immediate attention by a surgical specialist is recommended.
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(continued)

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None required except under unusual circumstances such as described in the Fire and Explosion Section.

Protective Gloves: None required.

Eye/Face Protection: None required.

Other Precautions: Avoid prolonged skin contact by practicing good personal hygiene and laundering contaminated clothing.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Recover undamaged and minimally contaminated material for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT

Proper Shipping Name, Not regulated.

IATA/IMO

Proper Shipping Name, Not restricted.

TDG

This Material is Not Regulated.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute, No

Chronic, No

Fire, No

Reactivity, No

Pressure, No

(continued)

REGULATORY INFORMATION

U.S. REGULATIONS

OSHA HAZARD DETERMINATIONS

The material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114

The material is not known to contain either a Hazardous Air Pollutant or a Volatile Organic Chemical.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)

The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

Ingredient	: Zinc Alkyldithiophosphate
CAS Registry Number	: 68649-42-3
Approximate Concentration	: 1.0%
(Upper Bound)	

Ingredient	: Zinc Naphthenate
CAS Registry Number	: 12001-85-3
Approximate Concentration	: 1.0%
(Upper Bound)	

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies of the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261).

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REGULATORY INFORMATION (continued)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT,
40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which
is considered hazardous if spilled into navigable waters
and therefore reportable to the National Response Center
(1-800-424-8802).

Ingredient : Petroleum Hydrocarbons
Reportable Quantity : Film or sheen upon or
discoloration of the water
surface or adjoining shoreline.

FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

The material is not a WHMIS Controlled Product.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
OF 1986 ("PROPOSITION 65")

The material is not known contain ingredient(s) subject
to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

The material contains the following ingredient(s) found
on the Pennsylvania Worker and Community Right-to-Know
Act Hazardous substance List:

Ingredient : Zinc Alkyldithiophosphate
CAS Registry Number : 68649-42-3
Category : Environmental Hazard

Ingredient : Zinc Naphthenate
CAS Registry Number : 12001-85-3
Category : Environmental Hazard

Nonhazardous ingredient(s) information is withheld as
trade secret in accordance with Section 11 of the
Pennsylvania Worker and Community Right to Know Act.

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

Safety, Health, & Env. Affairs
Conoco Inc.
PO Box 2197
Houston, TX 77252
713-293-5550

End of MSDS



Conoco Inc.

HYDC0180



Revised 09-Mar-92

Printed 23-Mar-92

SUPER HYDRAULIC OIL 22, 32, 46, 68

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco, Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Chemical Family	Petroleum Hydrocarbon	
Trade Names and Synonyms	7447, 7448, 7449, 7450 Petroleum Lubricating Oil	
CAS Number	Mixture	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	1
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

PHYSICAL DATA

Boiling Point	650 to 1060°F
Vapor Pressure	Nil
Vapor Density	>1 (Air = 1.0)

(continued)

PHYSICAL DATA (continued)

% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild petro. hydrocarbon
Form	Liquid
Color	Brown
Specific Gravity	0.863 to 0.879 @ 60 F (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing materials. Avoid heat and flame.
Decomposition	Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	285°F
Method	PMCC
Autoignition	650°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

HEALTH HAZARD INFORMATION

Primary Route of Exposure/Entry: Skin.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates, which are similar to ingredients in this product, have not caused skin tumors. The product, as with many petroleum products, may cause

(continued)

HEALTH HAZARD INFORMATION (continued)

minor skin, eye, or lung irritation, especially if poor hygienic practices or inadequate engineering design allow prolonged or repeated exposure.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits	
SUPER HYDRAULIC OIL 22, 32, 46, 68	
TLV (ACGIH)	None Established
PEL (OSHA)	None Established
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

High Pressure Injection Injuries:
Accidental release of product during high pressure usage may cause penetration of the skin and cause a seemingly harmless wound that can lead to serious consequences. Have the wound treated by a physician.

Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult. High velocity injection under the skin can result in serious injury. When released by high pressure equipment, this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can eventually effect the palm of the hand. Immediate attention by a surgical specialist is recommended.
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PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

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PROTECTION INFORMATION (continued)

Personal Protective Equipment

Respiratory Protection: None required except under unusual circumstances such as described in the Fire and Explosion Section.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin exposure. NBR or neoprene recommended.

Eye Protection: Safety glasses with side shields; chemical splash goggles if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT

Proper Shipping Name

Not regulated.

IATA/IMO

Proper Shipping Name

Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations. Do not store with strong oxidizing agents.

TITLE III HAZARD CLASSIFICATIONS

Acute	No
Chronic	No
Fire	No
Reactivity	No
Pressure	No

(continued)

REGULATORY INFORMATION

U.S. REGULATIONS

OSHA HAZARD DETERMINATION

The material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200

CLEAN AIR ACT, 40 CFR 50, Sections 112, 114

The material is not known to contain a Hazardous Air Pollutant in sufficient quantity to make it subject to CAA regulations.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances, 40 CFR 355

The material is not known to contain extremely hazardous substances.

SECTION 313 - List of Toxic Chemicals, 40 CFR 372

The material is not known to contain chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to toxic chemical release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	Reportable Quantity
Petroleum Hydrocarbon	Film or sheen upon or discoloration of the water surface or adjoining shoreline.

STATE REGULATIONS

(continued)

REGULATORY INFORMATION (continued)

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

This material is not known to contain any ingredient(s) subject to the Act. Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of the Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use: Petroleum Lubricating and Hydraulic Oil

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

Env. & Occ. Health Services
Conoco Inc.
PO Box 2197
Houston, TX 77252
713-293-5550

End of MSDS



Conoco Inc.

MOTC0281



Revised 27-Feb-92

Printed 16-Mar-92

SUPER ALL-SEASON MOTOR OIL

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Grade	5W-30, 10W-30, 10W-40, 20W-40	
Chemical Family	Petroleum Hydrocarbon	
Trade Names and Synonyms	6012, 6013, 6014, 6016 Motor Oil, Super All-Season	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

PHYSICAL DATA

Boiling Point	650 to 1200°F
Vapor Pressure	Nil
Vapor Density	>1 (Air = 1.0)

(continued)

PHYSICAL DATA (continued)

% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild petro. hydrocarbon
Form	Liquid
Color	Brown
Specific Gravity	0.87-0.88 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing agents. Avoid heat, sparks, and flame.
Decomposition	Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	330-335 deg F
Method	PMCC
Autoignition	620-630 deg F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.</p> <p>Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

HEALTH HAZARD INFORMATION

Primary Route(s) of Entry: Skin.

(continued)

HEALTH HAZARD INFORMATION (continued)

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors. The product, as with many petroleum products, may cause minor skin, eye, or lung irritation, especially if poor hygienic practices or inadequate engineering design allow prolonged or repeated exposure.

Laboratory studies with mice have shown that "used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "used" motor oil was not removed between applications. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
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Exposure Limits	
SUPER ALL-SEASON MOTOR OIL	
TLV (ACGIH)	None Established
PEL (OSHA)	None Established
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Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
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Skin Contact	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If irritation develops, consult a physician.
<hr/>	
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
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Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
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Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None required except under unusual circumstances such as described in the Fire and Explosion Hazard Section.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin exposure. NBR or neoprene

(continued)

PROTECTION INFORMATION (continued)

recommended.

Eye Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

SPILL, LEAK AND DISPOSAL INFORMATION**Spill, Leak, or Release**

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

NOTE: Remove source of sparks and flame.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION**DOT**

Proper Shipping Name

Not regulated.

IATA/IMO

Proper Shipping Name

Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute No

Chronic No

Fire No

Reactivity No

Pressure No

(continued)

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114

The material is not known to contain a Hazardous Air Pollutant in sufficient quantity to make it subject to CAA regulations.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPEFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances at greater than 1.0% concentration.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)

The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

Toxic Chemical	: Zinc Alkyl Dithiophosphate
CAS Registry Number	: 68649-42-3
Approximate Concentration	: 1.6%
(Upper Bound)	

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies of the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261).

(continued)

REGULATORY INFORMATION (continued)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT,
40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which
is considered hazardous if spilled in navigable waters.

Ingredient	:	Petroleum Hydrocarbons
Reportable Quantity	:	Film or sheen upon or discoloration of the water surface or adjoining shoreline.

FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

The material is not a WHMIS Controlled Product.

Emergency Transport/Medical Number : 1-613-348-3616

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
OF 1986 ("PROPOSITION 65")

The material is not known to contain any ingredient(s)
subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following ingredients found on
the Pennsylvania Worker and Community Right to Know Act
Hazardous Substance List:

Ingredient	:	Zinc Aklyl Dithiophosphate
CAS Registry Number	:	68649-42-3
Category	:	Environmental Hazard

Non-hazardous ingredient(s) information is withheld as
trade secret in accordance with Section 11 of
Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use : Motor Oil

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS



Conoco Inc.

ATFC0140



Revised 03-Feb-92

Printed 07-Apr-92

POWER-TRAN III

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Chemical Family	Petroleum Hydrocarbon	
Trade Names and Synonyms	6686 Hydraulic Transmission Fluid, Power-Tran III	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients

Components of this material are not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

PHYSICAL DATA

Boiling Point	650 to 1000°F
Vapor Pressure	(mmHg) Nil
Vapor Density	>1 (Air = 1.0)
% Volatiles	(by volume) Nil

(continued)

PHYSICAL DATA (continued)

Evaporation Rate	Nil (Ether = 1.0)
Water Solubility	Negligible
Odor	Mild petro. hydrocarbon
Form	Liquid
Color	Brown
Specific Gravity	0.88 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing agents. Avoid sparks and flame.
Decomposition	Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	330°F
Method	PMCC
Autoignition	660°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined spaced without proper protective equipment including respiratory protection.

HEALTH HAZARD INFORMATION

Primary Route(s) of Exposure/Entry: Skin

Signs and Symptoms of Exposure/Medical Conditions
Aggravated by Exposure:

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors. The product, as with many petroleum products, may cause minor skin, eye, or lung irritation, especially if poor hygienic practices or inadequate

(continued)

HEALTH HAZARD INFORMATION (continued)

engineering design allow prolonged or repeated exposure.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits POWER-TRAN III TLV (ACGIH) PEL (OSHA)	None Established None Established
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None normally required except under unusual circumstances such as described in Fire and Explosion Hazard Data.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. Rubber or PVC recommended.

Eye Protection: Safety glasses with side shields; chemical splash goggles if splashing is probable.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with

(continued)

SPILL, LEAK AND DISPOSAL INFORMATION (continued)

sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION**DOT**

Proper Shipping Name

Not regulated.

IATA/IMO

Proper Shipping Name

Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute

No

Chronic

No

Fire

No

Reactivity

No

Pressure

No

REGULATORY INFORMATION**OSHA HAZARD DETERMINATION**

The material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302
Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986,
TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances.

(continued)

REGULATORY INFORMATION (continued)

SECTION 313 - List of Toxic Chemicals (40 CFR 372)
The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

Toxic Chemical : Organic Zinc Compound
CAS Registry Number : 68649-42-3
Approximate Concentration : 1.5%
(Upper Bound)

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)
The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient : Petroleum Hydrocarbons
Reportable Quantity : Film or sheen upon or discoloration of the water surface or adjoining shorelines.

FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

The material is not a WHMIS Controlled Product.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

The material contains the following ingredient(s) found on the Pennsylvania Worker and Community Right-to-Know Hazardous Substances List:

Ingredient : Organic Zinc Compound
CAS Registry Number : 68649-42-3
Category : Environmental Hazard

Nonhazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of Pennsylvania Worker and Community Right to Know Act.

(continued)

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

Safety, Health & Env. Affairs
Conoco Inc..
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS

CLEANERS SOLVENT

FINA OIL & CHEMICAL COMPANY MATERIAL SAFETY DATA SHEET

PRODUCT: FINASOL
DATE OF ISSUE: 01-22-91
SUPERCEDES: 09-18-89

PAGE 1 OF 3
MSDS NUMBER: L 56
PRODUCT CODE: 013900

SECTION I - IDENTIFICATION

MANUFACTURERS NAME
FINA OIL AND CHEMICAL CO.
ADDRESS
P.O. BOX 2159, DALLAS, TX 75221
TRADE NAME
FINASOL
CAS REGISTRY NUMBER
N.A.V.
CHEMICAL FAMILY
HYDROCARBON MIXTURE
OTHER

EMERGENCY TELEPHONE NUMBER
(409) 962-4421
CHEMTREC TELEPHONE NUMBER
(800) 424-9300
CHEMICAL NAME
N.A.P.
CHEMICAL FORMULA
N.A.P.
DOT IDENTIFICATION NUMBER
N.A.P.

SECTION II - HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	VOL %	TLV
STODDARD SOLVENT MMT.C.MM (CAS# 8052-41-3)		100 PPM (ACGIH)
XYLENE ISOMERS M.T.C. (CAS# 1330-20-7)		100 PPM (ACGIH)

SECTION III - PHYSICAL DATA

BOILING POINT (DEG F) N.A.V.	SPECIFIC GRAVITY (WATER=1) 0.77-0.79
VAPOR PRESSURE (MMHG) N.A.V.	PERCENT VOLATILE (VOL%) N.A.V.
VAPOR DENSITY (AIR=1) N.A.V.	EVAPORATION RATE N.A.V.
SOLUBILITY IN WATER NEGLECTIBLE	
APPEARANCE AND ODOR WATER WHITE LIQUID; NON-RESIDUAL ODOR	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) 105+ DEG F (COC)	FLAMMABLE LIMITS - LOWER N.A.V.	UPPER N.A.V.
FIRE EXTINGUISHING METHOD A	FOAM, CO2, DRY CHEMICAL, HALON, WATER (FOG PATTERN)	
SPECIAL FIRE FIGHTING PROCEDURES	AVOID INHALATION OF VAPORS.	
UNUSUAL FIRE/EXPLOSION HAZARDS	COMBUSTIBLE LIQUID. DO NOT USE NEAR OPEN FLAME, ELECTRIC SPARKS OR ON HOT SURFACES.	

N.E.=NOT ESTABLISHED, N.A.P.=NOT APPLICABLE, N.A.V.=NOT AVAILABLE
T.C.=LISTED TOXIC CHEMICAL UNDER SEC. 313 OF TITLE III OF SARA 1986

CLEANERS
SOLVENT

FINA OIL & CHEMICAL COMPANY
MATERIAL SAFETY DATA SHEET

PRODUCT: FINASOL

PAGE 2 OF 3

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

XYLENE ISOMERS:

100 PPM/8 HR DAY - STEL 150 PPM/15 MIN

(ACGIH)

100 PPM/8 HR DAY- CEILING 200 PPM/10 MIN

(NIOSH)

STODDARD SOLVENT: 100 PPM/8 HR DAY

(ACGIH)

ACUTE EFFECTS OF OVEREXPOSURE

INHALATION	MAY CAUSE DROWSINESS, HEADACHE, NASAL, AND RESPIRATORY IRRITATION. FATIGUE AND CENTRAL NERVOUS SYSTEM DEPRESSION.
SKIN CONTACT & ABSORPTION	MINIMUM HAZARD; MAY CAUSE REDDENING OF THE SKIN. PROLONGED AND REPEATED CONTACT MAY LEAD TO VARIOUS DISORDERS (AS DERMATITIS, OIL ACNE, FOLLICULITIS)
EYE CONTACT	IRRITATION
INGESTION	POSSIBLE EFFECTS INCLUDE HEADACHE, DROWSINESS, NAUSEA, FATIGUE, PNEUMONITIS, PULMONARY EDEMA, CENTRAL NERVOUS SYSTEM DEPRESSION - ASPIRATION HAZARD.

EMERGENCY FIRST AID PROCEDURES

INHALATION	MOVE PERSON TO FRESH AIR. IF A LARGE AMOUNT HAS BEEN INHALED, KEEP VICTIM WARM AND GET MEDICAL ATTENTION. IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION.
SKIN CONTACT & ABSORPTION	REMOVE AFFECTED CLOTHING. WASH WITH SOAP AND WATER. WASH SOILED CLOTHES BEFORE REUSE.
EYE CONTACT	WASH EYES WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.
INGESTION	DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION AS SOON AS POSSIBLE

CHRONIC EFFECTS OF OVEREXPOSURE

SIGNS AND SYMPTOMS OF CHRONIC EXPOSURE RESEMBLE THOSE OF ACUTE EXPOSURE LISTED ABOVE.

FINA OIL & CHEMICAL COMPANY
MATERIAL SAFETY DATA SHEET

PRODUCT: FINASOL

PAGE 3 OF 3

SECTION VI - REACTIVITY DATA

STABILITY

STABLE

CONDITIONS TO AVOID

HEAT AND OPEN FLAME

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

CONDITIONS TO AVOID

OXIDIZING MATERIALS

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO

BE TAKEN

IN CASE

MATERIAL

IS RELEASED

OR SPILLED

CONTAIN SPILL AND SAFELY STOP THE FLOW. EVACUATE

ALL NON-ESSENTIAL PERSONNEL. ELIMINATE IGNITION

SOURCES AND VENTILATE AREA.

WASTE

DISPOSAL

METHOD

RECOVER FREE LIQUID. TRANSFER MATERIAL TO AN

APPROVED DISPOSAL AREA IN ACCORDANCE WITH FEDERAL,

STATE AND LOCAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION

USE OF NIOSH-APPROVED RESPIRATORS RECOMMENDED FOR PROLONGED EXPOSURE.

PROTECTIVE CLOTHING

CHEMICAL RESISTANT GLOVES RECOMMENDED WHEN CONTACT IS LIKELY.

EYE PROTECTION

SPLASH-PROOF GOGGLES OR SAFETY GLASSES.

VENTILATION

AVOID BREATHING MIST AND VAPORS. VENTILATE AS NEEDED.

OTHER PROTECTIVE EQUIPMENT

N.A.P.

SECTION IX - HANDLING AND STORAGE PRECAUTIONS

PRECAUTIONS TO BE
TAKEN IN HANDLING
AND STORING

COMBUSTIBLE LIQUID. KEEP AWAY FROM FIRE, SPARKS, AND
FLAME.

OTHER PRECAUTIONS

N.A.P.

LEGAL DISCLAIMER: WHILE THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, AND DISPOSAL, AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISKS INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



Conoco Inc.

GASC0120



Revised 19-May-92

Printed 20-May-92

Leaded Regular Gasoline

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco, Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Trade Names and Synonyms	Gasoline, Leaded Regular 1100, 1103, 1125	
NFPA Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Percent
Gasoline	DP706-84-7	100
including		
*Benzene	71-43-2	0.1-4.9
*Ethyl Benzene	100-41-4	2
*Cyclohexane	110-82-7	1
*Cumene	98-82-8	1
*Pseudocumene	95-63-6	2
*Xylenes	1330-20-7	~12
*Toluene	108-88-3	~15
*MTBE	1634-04-4	0-15

* Regulated as a Toxic Chemical under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

(continued)

PHYSICAL DATA

Boiling Point	85 to 437°F
Vapor Pressure	200-475 mm Hg at 68°F
Vapor Density	>1 (AIR = 1.0)
% Volatiles	(by volume) 100
Water Solubility	May be slightly soluble
Odor	Gasoline
Form	Liquid
Color	Bronze
Specific Gravity	0.70-0.77 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with oxidizing materials. Avoid undue exposure to air, heat, and flame.
Decomposition	Incomplete combustion may form carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	As low as -50 F
Method	TCC
Flammable Limits in Air, % by Volume	LEL < 1 UEL 8
Autoignition	536-853
Fire and Explosion Hazards	Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back. Class IA Flammable Liquid (NFPA).
Extinguishing Media	Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Water may be ineffective to extinguish, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from areas of potential ignition.</p> <p>Unusual Fire and Explosion Hazards: Highly Flammable. Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

(continued)

HEALTH HAZARD INFORMATION

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

A few studies have indicated that workers exposed many years to high concentrations of benzene have a slightly higher incidence of leukemia. Benzene can also be toxic to the blood and blood-forming tissues.

The product contains petroleum hydrocarbons which may cause irritation to eyes, skin and lungs after prolonged or repeated exposure. Extreme exposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness or convulsions.

Animal Studies:

Animal studies have shown that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillates has caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage. The significance of liver tumors in exposed mice is highly speculative and not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100-700 deg F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Animal studies with toluene have failed to demonstrate birth defects in rats and mice. However, toluene has been shown to cause delayed growth and extra ribs in the offspring of rats and mice at inhaled doses (266-399 ppm) that were non-toxic to the mother. Toluene has not been conclusively shown to cause adverse reproductive effects in humans.

One published study on xylene reports limited data suggesting high oral doses caused an increase in malignant tumors in rats. However, other more extensive animal studies have demonstrated no evidence of carcinogenicity. Developmental toxicity was observed but only at concentrations that were maternally toxic. Xylene does not have selective toxicity for the developing fetus.

(continued)

HEALTH HAZARD INFORMATION (continued)

Combustion Product:

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Carcinogenicity

The following components are listed by IARC, NTP, OSHA, or ACGIH as carcinogens. A 'P' indicates a Proposed Carcinogen.

Material
Gasoline
Benzene

IARC NTP OSHA ACGIH

X
X X X X

Du Pont controls the following materials as potential carcinogens :
Benzene.

Applicable Exposure Limits

Gasoline

AEL * (Du Pont)	None Established
TLV (ACGIH)	300 ppm, 890 mg/m ³ - 8 Hr TWA STEL 500 ppm, 1,480 mg/m ³
PEL (OSHA)	300 ppm, 900 mg/m ³ - 8 Hr TWA STEL 500 ppm, 1,500 mg/m ³

Benzene

AEL * (Du Pont)	1 ppm - 8 & 12 Hr. TWA 5 ppm - 15 Min. TWA
TLV (ACGIH)	10 ppm, A2; 32 mg/m ³ , A2 - 8 Hr TWA See Notice of Intended Changes (1991-92)
PEL (OSHA)	0.1 ppm, 0.3 mg/m ³ - 8 hr TWA, skin, A1 1 ppm - 8 Hr. TWA 5 ppm - (Short term exposure limit) 0.5 ppm - Action level

Ethyl Benzene

AEL * (Du Pont)	None Established
TLV (ACGIH)	100 ppm, 434 mg/m ³ - 8 Hr TWA STEL 125 ppm, 543 mg/m ³
PEL (OSHA)	100 ppm, 435 mg/m ³ - 8 Hr TWA STEL 125 ppm, 545 mg/m ³

Cyclohexane

AEL * (Du Pont)	150 ppm - 12 Hr. TWA
TLV (ACGIH)	300 ppm, 1,030 mg/m ³ - 8 Hr TWA
PEL (OSHA)	300 ppm, 1,050 mg/m ³ - 8 Hr TWA

Cumene

AEL * (Du Pont)	None Established
TLV (ACGIH)	50 ppm, 246 mg/m ³ - 8 Hr TWA, skin
PEL (OSHA)	50 ppm, 245 mg/m ³ - 8 Hr TWA, skin

(continued)

HEALTH HAZARD INFORMATION (continued)

Pseudocumene	
AEL * (Du Pont)	None Established
TLV (ACGIH)	25 ppm, 123 mg/m ³ - 8 Hr TWA
PEL (OSHA)	25 ppm, 125 mg/m ³ - 8 Hr TWA
<hr/>	
Xylenes	
AEL * (Du Pont)	100 ppm - 8 Hr. TWA
	150 ppm - 15 Min. TWA
TLV (ACGIH)	100 ppm, 434 mg/m ³ - 8 Hr TWA
	STEL 150 ppm, 651 mg/m ³
PEL (OSHA)	100 ppm, 435 mg/m ³ - 8 Hr TWA
	STEL 150 ppm, 655 mg/m ³
<hr/>	
Toluene	
AEL * (Du Pont)	100 ppm - 8 & 12 Hr. TWA
TLV (ACGIH)	100 ppm, 377 mg/m ³ - 8 Hr TWA
	STEL 150 ppm, 565 mg/m ³
	See Notice of Intended Changes (1991-92)
	50 ppm, 147 mg/m ³ - 8 Hr TWA, skin
PEL (OSHA)	100 ppm, 375 mg/m ³ - 8 Hr TWA
	STEL 150 ppm, 560 mg/m ³
<hr/>	
MTBE	
AEL * (Du Pont)	None Established
TLV (ACGIH)	None Established
PEL (OSHA)	None Established
WEEL (AIHA)	100 ppm (8 hr TWA)

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Safety Precautions	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use.
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FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

(continued)

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Keep away from heat, sparks and flames. Keep container tightly closed. Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation.

Ventilation: Use sufficient ventilation to maintain atmospheric concentrations below permissible exposure limits. Avoid sparking and explosive mixtures.

Personal Protective Equipment

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin exposure. NBR recommended.

Eye Protection: Goggles or face shield for spray/mists or if splashing is probable.

Other Protective Equipment: Sufficient protective clothing to minimize skin exposure. Launder contaminated clothing before reuse.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Remove source of heat, sparks, flame, impact, friction or electric including combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

NOTE: Vapors released from the spill may create an explosive atmosphere.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

(continued)

SHIPPING INFORMATION

DOT

Proper Shipping Name	Gasoline
Hazard Class	Flammable liquid
UN/NA No.	UN 1203
DOT Labels(s)	Flammable liquid
DOT Placard	Flammable

IATA/IMO

Proper Shipping Name	Gasoline or Motor Spirit
Hazard Class	3 (IMO 3.1)
UN No.	UN 1203
IMO/ICAO Label	Flammable liquid
Packaging Group	II

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute	Yes
Chronic	Yes
Fire	Yes
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114

The material contains the following Hazardous Air Pollutants.

Hazardous Air Pollutant : Benzene
Cumene
Ethyl Benzene
MTBE
Toluene
Xylenes

(continued)

REGULATORY INFORMATION (continued)

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTION 302/304 - Extremely Hazardous Substances, 40 CFR 355

The material is not known to contain extremely hazardous substances.

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	: Petroleum Hydrocarbons
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shoreline.

State Regulations

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material contains ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm. Read and follow label directions and use care when handling or using all petroleum products.

Ingredient	: Benzene
	: Toluene

(continued)

REGULATORY INFORMATION (continued)

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following ingredients subject to the Pennsylvania Worker and Community Right to Know Act Hazardous Substance List:

Ingredient	Category
Gasoline	Hazardous Substance
Benzene	Environmental Hazard
	Special Hazardous Substance
Ethyl Benzene	Environmental Hazard
Cyclohexane	Environmental Hazard
Cumene	Hazardous Substance
	Environmental Hazard
Pseudocumene	Environmental Hazard
MTBE	Environmental Hazard
Methylbenzene (Toluene)	Environmental Hazard
Dimethylbenzene (Xylene)	Environmental Hazard

Foreign Regulations

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

WHMIS Classes : Class B2, Flammable Liquid
Class D2A, Very Toxic Material
Carcinogen
Class D2B, Toxic Material
Chronic Toxic Effects
Skin and Eye Irritant

Emergency Medical Information : 1-613-348-3616

ADDITIONAL INFORMATION AND REFERENCES

Product use : Motor Fuel

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713-293-5550

End of MSDS



Conoco Inc.

GASC0001



Revised 02-Oct-91

Printed 02-Oct-91

Gasoline, Unleaded

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Trade Names and Synonyms	Gasoline, Mid-Grade Unleaded Gasoline, Premium Unleaded Gasoline, Regular Unleaded Gasoline, Super Unleaded 1104/1105/1106/1410/1420/1430	
NFPA Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	3
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	
WHMIS Classification	CLASS B Division 2 : Flammable Liquid CLASS D Division 2 Subdivision A : Very Toxic Material. Carcinogen. CLASS D Division 2 Subdivision B : Toxic Material. Chronic Toxic Effects.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Percent
Gasoline	DP113-33-1	100
including		
*Benzene	71-43-2	0.1-4.9
*Ethyl Benzene	100-41-4	2

(continued)

FIRE AND EXPLOSION DATA (continued)

Autoignition	536-853
Fire and Explosion Hazards	Class IA Flammable Liquid (NFPA).
Extinguishing Media	Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Water may be ineffective to extinguish, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from areas of potential ignition.</p> <p>Unusual Fire and Explosion Hazards: Highly Flammable. Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

HEALTH HAZARD INFORMATION

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

A few studies have indicated that workers exposed many years to high concentrations of benzene have a slightly higher incidence of leukemia. Benzene can also be toxic to the blood and blood-forming tissues.

Studies with mice or rats have shown that some petroleum distillates have caused either damage or tumors of the kidneys or tumors of the liver. However, kidney effects were not seen in similar studies involving guinea pigs, dogs or monkeys. Also, the significance of the liver tumors in rodents is highly speculative.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100-700 deg F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

The product contains petroleum hydrocarbons which may cause irritation to eyes, skin and lungs after prolonged or repeated exposure. Extreme exposure or aspiration into the lungs may cause pneumonia. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness or convulsions.

(continued)

HEALTH HAZARD INFORMATION (continued)

Cumene	
AEL * (Du Pont)	None Established
TLV (ACGIH)	50 ppm, 246 mg/m ³ - 8 Hr TWA, skin
PEL (OSHA)	50 ppm, 245 mg/m ³ - 8 Hr TWA, skin
Pseudocumene	
AEL * (Du Pont)	None Established
TLV (ACGIH)	25 ppm, 123 mg/m ³ - 8 Hr TWA
PEL (OSHA)	25 ppm, 125 mg/m ³ - 8 Hr TWA
Xylenes	
AEL * (Du Pont)	100 ppm - 8 Hr. TWA 150 ppm - 15 Min. TWA
TLV (ACGIH)	100 ppm, 434 mg/m ³ - 8 Hr TWA STEL 150 ppm, 651 mg/m ³
PEL (OSHA)	100 ppm, 435 mg/m ³ - 8 Hr TWA STEL 150 ppm, 655 mg/m ³
Toluene	
AEL * (Du Pont)	100 ppm - 8 & 12 Hr. TWA
TLV (ACGIH)	100 ppm, 377 mg/m ³ - 8 Hr TWA STEL 150 ppm, 565 mg/m ³ See Notice of Intended Chnages (1991-92)
PEL (OSHA)	50 ppm, 147 mg/m ³ - 8 Hr TWA, skin 100 ppm, 375 mg/m ³ - 8 Hr TWA STEL 150 ppm, 560 mg/m ³
MTBE	
AEL * (Du Pont)	None Established
TLV (ACGIH)	None Established
PEL (OSHA)	None Established
WEEL (AIHA)	100 ppm (8 hr TWA)

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Safety Precautions	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use.
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FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

(continued)

SHIPPING INFORMATION

DOT

Proper Shipping Name	Gasoline
Hazard Class	Flammable liquid
UN/NA No.	UN 1203
DOT Labels(s)	Flammable liquid
DOT Placard	Flammable

IATA/IMO

Proper Shipping Name	Gasoline or Motor Spirit
Hazard Class	3 (IMO 3.1)
UN No.	UN 1203
IMO/ICAO Label	Flammable liquid
Packaging Group	II

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute	Yes
Chronic	Yes
Fire	Yes
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114

The material contains the following Hazardous Air Pollutant(s) at a weight percent concentration not to exceed the amount shown:

Hazardous Air Pollutant	CAS Registry Number	Not to Exceed Concentration (Wt %)
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(continued)

REGULATORY INFORMATION (continued)

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)
See Material Identification for WHMIS information.
Emergency Telephone Number : 1-613-348-3616

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
OF 1986 ("PROPOSITION 65")

The material contains ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm. Read and follow label directions and use care when handling or using all petroleum products.

Ingredient:

Benzene

Toluene

Unleaded Gasoline (Wholly Vaporized)

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following ingredients subject to the Pennsylvania Worker and Community Right to Know Act Hazardous Substance List:

Categories: H = Hazardous Substance (= or > 1.0%)
S = Special Hazardous Substance (= or > 0.01%)
E = Environmental Hazard (= or > 1.0%)

Ingredient	CAS #	Category
Gasoline	Mixture	H
Benzene	71-43-2	E,S
Ethyl Benzene	100-41-4	E
Cumene	98-82-8	H,E
Pseudocumene	95-63-6	E
MTBE	1634-04-4	E
Methylbenzene (Toluene)	108-88-3	E
Dimethylbenzene (Xylene)	1330-20-7	E

Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use : Automotive Gasoline

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(continued)



MATERIAL SAFETY DATA SHEET

I. MATERIAL IDENTIFICATION

Name: Kerosene
Conoco Product Code: 4300
Chemical Family: Mixed Petroleum Hydrocarbons
Manufacturer: Conoco Inc.
Address: P.O. Box 1267, Ponca City, OK 74603

CAS Reg. No.: Mixture; major components may be some combination of 64742-38-7, 8008-20-6

Transportation Emergency No.: (800) 424-9300 (Chemtrec)

Product Information No.: (405) 767-6000

II. HAZARDOUS INGREDIENTS

HAZARD DATA

Hazard Determination:

Health Effect Properties: None. Not applicable.

Physical Effect Properties:

Product/Mixture: Class II Combustible Liquid per NFPA Code No. 30-1984.

III. PHYSICAL DATA

Appearance and Odor: Clear liquid, paraffinic odor.

Boiling Range (Deg.F)	330-572	Specific Gravity (H ₂ O=1)	0.81
Vapor Pressure (mmHg), 68F	2	% Volatile (by volume)	Nil
Solubility in Water	Insoluble		

IV. REACTIVITY DATA

Stable: X Unstable:

Hazardous Decomposition Products: Combustion can produce carbon dioxide. Incomplete combustion may produce carbon monoxide.

Conditions to Avoid: Oxidizing materials, heat, flame.

Hazardous Polymerization: Will not occur.

V. FIRE AND EXPLOSION HAZARD DATA

LFL: 0.5 UFL: 6

Flash Point (Method used): 115F min. (TCC) Autoignition Temperature: 475-500F

Handle and stored in accordance with NFPA procedures for Class II Combustible Liquid.

Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide.

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool.

If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

CAS Registry No.: Mixture,
64742-38-7, 8008-20-6

V. FIRE AND EXPLOSION HAZARD DATA (continued)

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

National Fire Protection Agency (NFPA) CLASSIFICATION

HAZARD RATING

Health <u>0</u>	Fire <u>2</u>	Reactivity <u>0</u>	Least - 0	Slight - 1	Moderate - 2
			High - 3	Extreme - 4	

VI. TRANSPORTATION AND STORAGE

DOT HAZARD CLASS: Combustible liquid

Precautions To Be Taken In Handling And Storing: Product is Class II Combustible Liquid per NFPA Code No. 30-1984. Store and handle accordingly.

Shipping Paper Description: Kerosene, combustible liquid, UN 1223.

Placard: Combustible* (Not required on packages 110 gallons or less).

D.O.T. Label: None.

OSHA Label: Combustible Liquid.

* Flammable placard may be substituted on a cargo tank, portable tank, or compartmented tank car. Use of "empty" placard not authorized.

VII. HEALTH HAZARD INFORMATION

PEL 500 ppm (petroleum distillates) TLV Not Established

Ceiling Value Not Established AEL Not Established

Primary Routes of Exposure/Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

No adverse health effect has been identified specifically for this product. Health effect information from animal or human studies has been included on related materials, even though health experts may disagree as to the significance of this data.

Studies with rodents have shown that petroleum distillates have caused kidney damage and kidney or liver tumors. However, the kidney effects were not seen in similar studies involving guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown significant increases of kidney damage nor kidney or liver tumors.

CAS Registry No.: Mixture,
64742-38-7, 8008-20-6

VII. HEALTH HAZARD INFORMATION (continued)

Mouse skin painting studies have shown that unrefined petroleum distillates having a boiling point of 120-700F, and which are similar to ingredients in this product, caused a low incidence of skin tumors. Studies of petroleum workers have not shown a significant increased incidence of skin tumors.

The product may cause irritation to eyes, lungs, or skin after prolonged or repeated exposure. Overexposure may cause central nervous system depression.

Data from animal studies with a generic kerosene, funded by American Petroleum Institute:

Oral toxicity, rat: No mortality at a dose of 5 g/kg.

Skin toxicity, rabbits: No mortality at a dose of 2 g/kg.

Severe irritation (24-hour occlusion)

Eye Irritation, rabbits: Minimal irritation.

Inhalation toxicity, rats: No mortality at a concentration of 5.2 mg/l for 4 hours.

Genotoxicity: Negative.

Reproductive toxicity: No abnormalities in newborn rats.

Listed as Carcinogen or Potential Carcinogen by: NTP No IARC No OSHA No

VIII. EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately wash with fresh water for at least 15 minutes and get medical attention.

Skin: Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation persists, consult a physician.

Launder contaminated clothing before reuse. Extremely contaminated leather shoes should be discarded.

Inhalation: If overexposure occurs, remove individual to fresh air. If breathing stops, administer artificial respiration.

Ingestion: If this material is swallowed, do not induce vomiting. If vomiting begins, lower victim's head in an effort to prevent vomitus from entering lungs. Immediately consult a physician. Do not attempt to give liquid to an unconscious person.

Note to Physicians: Gastric lavage by qualified medical personnel may be considered, depending on quantity of material ingested.

CAS Registry No.: Mixture,
64742-38-7, 8008-20-6

IX. SPILL, LEAK AND DISPOSAL PROCEDURES

RCRA HAZARDOUS WASTE: Yes X No

In Case of Spill or Leak: Contain spill immediately in smallest area possible.

Recover as much of the product itself as possible by such methods as vacuuming, followed by soaking up of residual fluids by use of absorbent materials. Remove contaminated items including contaminated soil and place in proper containers for disposal. Avoid washing, draining or directing material to storm or sanitary sewers.

Waste Disposal Method: Recycle as much of the recoverable product as possible.

Dispose of nonrecyclable material as a RCRA hazardous waste by such methods as incineration, complying with federal, state and local regulations.

X. PRECAUTIONARY MEASURES

Respiratory Protection: Use air mask or hydrocarbon absorbing respirator when exposed to oil sprays or mists.

Ventilation: Normal ventilation.

Protective Gloves: Impervious gloves as needed to avoid skin contact.

Eye Protection: Chemical goggles required when exposed to sprays and mists or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable.

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Conoco Inc.

GASC0210



Revised 14-Aug-91

Printed 07-Jan-92

No. 1 Diesel Fuel, No. 1 Fuel Oil

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Trade Names and Synonyms	Fuel Oil, No. 1 Diesel Fuel, No. 1 3501, 4195	
NFPA Ratings	Health:	0
	Flammability:	2
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	2
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	
WHMIS Classification	CLASS B Division 3 : Combustible Liquid CLASS D Division 2 Subdivision B : Toxic Material. Chronic Toxic Effects.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number
Straight Run Kerosene	8008-20-6
and/or	
Hydrosulfurized Kerosene	64742-81-0

(continued)

PHYSICAL DATA

Boiling Point	330 to 572°F
Vapor Pressure	2 mm Hg at 68°F
Vapor Density	>1 (Air = 1.0)
% Volatiles	(by volume) Nil
Water Solubility	Insoluble
Odor	Paraffinic
Form	Liquid
Color	Clear
Specific Gravity	0.81

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with oxidizing materials. Avoid heat and flame.
Decomposition	Incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	115°F
Method	TCC
Flammable Limits in Air, % by Volume	LEL 0.5 UEL 6
Autoignition	410°F
Fire and Explosion Hazards	Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back. Class II Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.</p> <p>Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

(continued)

HEALTH HAZARD INFORMATION

Acute Toxicity Test Data

Inhalation
Skin
Oral

No Information Available.
Extremely irritating; no mortality at 5 ml/kg, rabbit
LD50: 9 ml/kg, rat

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure. Animal studies have shown that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillates has caused liver tumors in mice and kidney damage/tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Also, human studies do not indicate this peculiar sensitivity for kidney damage. The significance of liver tumors in exposed mice is highly speculative and not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100-700 deg F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

The product contains petroleum hydrocarbons, and as with many petroleum products, it may cause irritation to the eyes, lungs, or skin after prolonged or repeated exposure. Extreme exposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, aortic plaques, heart beat irregularities, unconsciousness, or convulsions.

(continued)

HEALTH HAZARD INFORMATION (continued)

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Pulmonary fibrosis has been reported in cable plant workers exposed to mist and vapors of mineral oils and kerosene for 5-35 years. Because of mixed exposures to mineral oils as well as kerosene it is difficult to attribute these effects to kerosene alone.

Individuals with preexisting diseases of the lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits No. 1 Diesel Fuel, No. 1 Fuel Oil TLV (ACGIH) PEL (OSHA)	None Established None Established
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Flush skin with water after contact. Wash contaminated clothing before reuse.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia.

(continued)

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container in a cool place. Keep container tightly closed. Ground container when pouring.

Personal Protective Equipment

Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits. Proper respiratory selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin exposure. NBR or neoprene recommended.

Eye Protection: Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse. Extremely contaminated leather shoes should be discarded.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material.

Remove source of heat, sparks, flame, impact, friction, and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion-proof and suitable for flammable liquid and vapors.

NOTE : Vapors released from the spill may create an explosive atmosphere.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste, when disposed.

(continued)

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

The product is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302
Not Applicable

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986,
TITLE III - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances,
40 CFR 355

The material is not known to contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

SECTION 313 - LIST OF TOXIC CHEMICALS, 40 CFR 372

The material is not known to contain chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to toxic chemical release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261,
SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT,
40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

(continued)

REGULATORY INFORMATION (continued)

Ingredient : Petroleum Hydrocarbon
Reportable Quantity : Film or sheen upon or
discoloration of the water
surface or adjoining shoreline.

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS, 49 CFR 171-178

The material is not known to contain ingredient(s)
subject to the Regulations.

FOREIGN REGULATION

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

WHMIS Classes : B3, D2B
Emergency Medical Number : 1-613-346-3616
Transportation Emergency Number : 1-613-346-3616

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s)
subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following ingredient(s) found
on the Pennsylvania Worker and Community Right-to-Know Act
Hazardous Substances List:

Ingredient : Kerosene (Petroleum)
CAS Registry Number : 8008-20-6
Category : Hazardous Substance

Non-hazardous ingredient(s) information is withheld as
trade secret in accordance with Section 11 of
Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use: Motor Fuel

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS



Conoco Inc.

GASC0220



Revised 14-Aug-91

Printed 07-Jan-92

No. 2 Diesel Fuel

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Trade Names and Synonyms	Diesel Fuel, No. 2 Diesel Fuel LC Diesel Fuel LS, No. 2 - 3502, 3503, 3504, 3508, 3510, 3542	
CAS Number	68476-34-6	
NFPA Ratings	Health:	0
	Flammability:	2
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	2
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	
WHMIS Classification	CLASS B Division 3 : Combustible Liquid CLASS D Division 2 Subdivision B : Toxic Material. Chronic Toxic Effects.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Percent
Diesel Fuel, No. 2	68476-34-6	100

(continued)

PHYSICAL DATA

Boiling Point	350 to 680°F
Vapor Pressure	1 mm Hg at 68°F
Vapor Density	>1 (Air = 1.0)
% Volatiles	(by volume) Nil
Water Solubility	Insoluble
Odor	Aromatic
Form	Liquid
Color	Clear or light yellow
Specific Gravity	0.85-0.93 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with oxidizing materials. Avoid heat and flame.
Decomposition	Incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	130°F
Method	TCC
Flammable Limits in Air, % by Volume	LEL 0.4 UEL 6
Autoignition	494°F
Fire and Explosion Hazards	Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back. Class II Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	<p>Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.</p> <p>Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.</p>

(continued)

HEALTH HAZARD INFORMATION

Acute Toxicity Test Data

Inhalation
Skin
Oral

No Information Available.
Extremely irritating; no mortality at 5 ml/kg in rabbits
LD50 at 9 ml/kg in rats

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure. Animal studies show that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillates has caused liver tumors in mice and adverse kidney effects in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Also, human studies do not indicate this peculiar sensitivity for kidney damage. The significance of liver tumors in mice is highly speculative and not a good indicator for predicting a potential human health hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100-700 deg F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

The product contains petroleum hydrocarbons, and as with many petroleum products, it may cause irritation to the eyes, lungs or skin after prolonged or repeated exposure. Extreme exposure or aspiration into the lungs may cause pneumonia. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness or convulsions.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

(continued)

HEALTH HAZARD INFORMATION (continued)

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits No. 2 Diesel Fuel TLV (ACGIH) PEL (OSHA)	None Established None Established
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Flush skin with water after contact. Wash contaminated clothing before reuse.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

PROTECTION INFORMATION**Generally Applicable Control Measures and Precautions**

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container tightly closed. Ground container when pouring.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Chemical goggles required when exposed to spray or mist or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

(continued)

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Remove source of heat, sparks, flame, impact, friction or electricity, including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion-proof and suitable for flammable liquid and vapors.

NOTE: Vapors released from the spill may create an explosive atmosphere.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

SHIPPING INFORMATION

DOT

Proper Shipping Name	Diesel fuel or fuel oil
Hazard Class	Combustible liquid
UN/NA No.	NA 1993
DOT Labels(s)	None
DOT Placard	Combustible

IATA/IMO

Proper Shipping Name	Gas Oil
Hazard Class	3 (IMO 3.3)
UN No.	UN 1202
IMO/ICAO Label	Flammable liquid
Special Information	Not restricted over 140 deg F
Packaging Group	III

TDG

Proper Shipping Name	Gas Oil
Pin No.	UN 1202
TDG Class	3.3
TDG: If flash is >100 deg F, then not regulated.	

(continued)

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed. Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute	Yes
Chronic	Yes
Fire	Yes
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

COMPREHENSIVE ENVIRONMENTAL, RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302
Not Applicable

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986,
TITLE III (SARA) - SECTION 302, 304, 313

Section 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

Section 313 - List of Toxic Chemicals (40 CFR 372)

The material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive,

(continued)

REGULATORY INFORMATION (continued)

ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	Reportable Quantity
Petroleum Hydrocarbon	Film or sheen upon or discoloration of the water surface or adjoining shoreline

FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

WHMIS classes : B3, D2B

Emergency Medical Information : 1-613-348-3616

Transportation Emergency Number : 1-613-348-3616

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Act Hazardous Substances List:

Ingredient	: Diesel Fuel Oil
CAS Registry Number	: 68476-34-6
Category	: Hazardous Substance

Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use : Motor Fuel

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM

(continued)

LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS



MATERIAL SAFETY SHEET
APPROVED BY U.S. LABOR DEPT..
ESSENTIALLY SIMILAR TO FORM OSHA 174

PRODUCT IDENTITY: PETROBLEND ANTIFREEZE & SUMMER COOLANT

I. SUPPLIER

H1-TECH INDUSTRIES, INC.
17029 DEVONSHIRE ST #134
NORTHRIDGE, CAL 91325-1679
818-993-9960
CHEMTREX PHONE 800-424-9300

Tony -
PIONEER CONTR.

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS#	% BY WT	PEL (OSHA)	TLV (ACGIH)
Ethylene Glycol	107-21-1	90 - 95	None Known	*50 ppm
Diethylene Glycol	20321-32-7	0 - 5	None Known	25 ppm
				*(ceiling limit)
LOWEST KNOWN LD50 (ORAL)	107-21-1		5840 mg/kg (Rats)	
LOWEST KNOWN LD50 (SKIN)	107-21-1		9530 mg/kg (Rabbits)	

HAZARD RATING

HEALTH (NFPA): 1 HEALTH (HMIS): 1 FLAMMABILITY: 1 REACTIVITY: 0
THIS PRODUCT IS LISTED IN THE TSCA INVENTORY
DOT SHIPPING NAME: None (UN000)
DOT LABEL: None

III. PHYSICAL DATA

BOILING RANGE:	171 203 203°C/339 398 398°F (*=End Point)
API GRAVITY:	Not Applicable
SPECIFIC GRAVITY (Water=1):	1.12
POUNDS/GALLONS:	9.3
VAPOR PRESSURE (mm OF Hg)@20C:	0.4
VAPOR DENSITY (air = 1):	2.1
WATER ABSORPTION:	Appreciable
ACID ABSORPTION (85% h2sO4):	Appreciable
DRY TIME (Ether = 1):	Long
% volatile by volume:	97.0
APPEARANCE:	Green
ODOR:	Mild
REFRACTIVE INDEX:	1.431

IV. FIRE & EXPLOSION HAZARDS

AUTO IGNITION TEMPERATURE:	750F
FLASH POINT (TEST METHOD):	118C/245F (TCC) (Lowest Component)
LOWER FLAMABLE LIMIT IN AIR (% by volume):	1.5 (Lowest Component)
FLAMMABILITY CLASSIFICATION:	Class IIIB
FIRE EXTINGUISHING MEDIA:	For class III B liquid fires (Dry Chemical, Foam, or Carbon Dioxide (co2))

PRODUCT IDENTITY: PETROBLEND ANTIFREEZE SUMMER COOLANT

**SPECIAL FIRE FIGHTING
PROCEDURES:**

Water spray may be ineffective on fire but can protect fire fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use a NIOSH approved positive-pressure self-contained breathing apparatus. Keep container tightly closed. Isolate from oxidizers, heat & open flame.

**USUAL EXPLOSION & FIRE
PROCEDURES:**

Closed containers may explode if exposed to extreme heat. Applying to hot surface requires special precautions. Empty container very hazardous! Follow all label precautions!

V. REACTIVITY DATA

**STABILITY:
CONDITIONS TO AVOID:
MATERIALS TO AVOID:**

Stable
Isolate from oxidizers, heat & open flame.
Isolate from strong oxidizers such as permanganates, chromates & peroxides.

**HAZARDOUS DECOMPOSITION
PRODUCTS:
CONDITIONS CONTRIBUTING TO
HAZARDOUS POLYMERIZATION:**

Carbon Monoxide, Carbon Dioxide from burning.
Material is not known to polymerize.

VI. HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE:
PREVENTION OF OVEREXPOSURE:**

50 ppm (Ceiling Value)
Avoid prolonged or repeated breathing of vapor or spray mist. Do not get in eyes, on skin or clothing. Do not take internally.

**ORGANIC EFFECTS: EYE & SKIN
CONTACT: OF ACCUTE OVER-
EXPOSURE:**

Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing & blurred vision. Absorption thru skin increases exposure. SWALLOWING: Harmful or fatal if swallowed, swallowing may cause abdominal irritation, nausea, vomiting and diarrhea.

**ORGANIC EFFECTS: EYE & SKIN
CONTACT: OF CHRONIC OVER-
EXPOSURE:**

Liquid causes eye irritation. Wash thoroughly after handling.

PRODUCT IDENTITY: PETROBLEND ANTIFREEZE & SUMMER COOLANT**CANCER HAZARD:**

This product has no carcinogens listed IARC, NTP, NIOSH, OSHA, or ACGIH, as of this date, GREATER OR EQUAL TO 0.1%.

EMERGENCY & FIRST AID PROCEDURES:

In case of contact with skin, flush with plenty of water. For eyes, flush with plenty of water for 15 minutes & get medical attention. After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. If swallowed, CALL A PHYSICIAN IMMEDIATELY! Induce vomiting promptly following physician's instructions or by having patient stick finger down throat. Never give anything by mouth to an unconscious person.

VII. SAFE HANDLING & USE PRECAUTIONS**SPILL OR LEAK PROCEDURES:**

Small, mop up with absorbent material & transfer to hood. Large, isolate from oxidizers, heat, and open flame. Persons without proper protection should be kept from an area until cleaned up.

WASTE DISPOSAL METHOD:

Small, evaporate until all vapors are gone. Dispose of remainder by legally applicable methods. Large, Recycle or incinerate observing local, state & Federal health, safety & pollution.

OTHER PRECAUTIONS:

Store large amounts in structures made for OSHA Class OTHER liquids. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze or weld. Empty container very hazardous! Follow all label precautions!

VIII. CONTROL MEASURES**RESPIRATORY PROTECTIONS:**

(SPECIFIC TYPE):

Ventilate to keep air below 45 ppm. If over TLV, in accordance with 29 CFR 1910.134, use a NIOSH approved positive-pressure self-contained breathing apparatus.

VENTILATION: LOCAL EXHAUST:

Necessary

SPECIAL:

None

MECHANICAL (GENERAL):

Acceptable

OTHER:

None

PRODUCT IDENTITY: PETROBLEND ANTIFREEZE & SUMMER COOLANT

PROTECTIVE CLOTHING: Wear OSHA Standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron, & footwear impervious to this material. Wash clothing before reuse.

IX DOT TRANSPORTATION

Shipping Name:	Not Applicable
Hazard Class:	Not Applicable
ID Number:	Not Applicable
Marking:	Not Applicable
Label:	Not Applicable
Placard:	Not Applicable
Hazardous Substance/RQ:	Not Applicable
Shipping Discription:	Not Applicable

X HAZARD CLASSIFICATION

This product meets the following hazard definition as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Health Hazard (Section VI)

XI ADDITIONAL COMMENTS

THIS PRODUCT MEETS REQUIREMENTS OF LA RULE 66 & SIMILAR REGULATIONS.

THIS PRODUCT DOES NOT APPEAR IN THE CALIFORNIA HEALTH & SAFETY CODE, SECTION 25249.5 ("PROPOSITION 65" LISTING OF CHEMICALS UNDER THE ACT)

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

ETHYLENE GLYCOL

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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 26, 1993

CERTIFIED MAIL

RETURN RECEIPT NO. P-667-242-002

Mr. Tony Breadmont
Environmental Coordinator
Pioneer Contracting Company, Inc.
5970 U.S. Hwy. 64
Farmington, New Mexico 87401

**RE: DISCHARGE PLAN REQUIREMENT
PIONEER CONTRACTING COMPANY, INC.
SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Breadmont:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan is required for your existing Pioneer Contracting Company, Inc. Service Facility located at 5970 U.S. Hwy 64, San Juan, County, New Mexico.

This notification of discharge plan requirement is pursuant to Part 3-104 and Part 3-106 of the WQCC Regulations. The discharge plan, defined in Part 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the facility or adjacent to the facility site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in below grade sumps, buried underground process tanks and/or piping), and closure plans for any pits or ponds whose use will be discontinued.

A copy of the regulations is enclosed for your convenience. Also enclosed is an application and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Two copies of your discharge plan application should be submitted to the OCD Santa Fe Office and one copy to the Aztec District Office for review purposes.

Mr. Tony Breadmont
July 26, 1993
Page 2

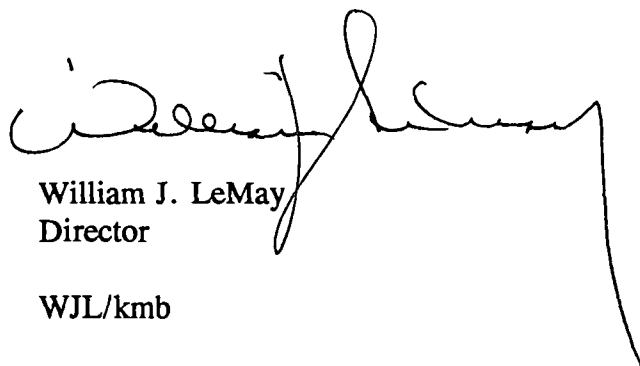
Section 3-106.A. of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Part 3-106.A. also allows the discharge to continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3-114 became effective as of August 18, 1991, and is found on page 33.1 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty (50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars (\$1380). The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. Please make all checks out to the **NMED - Water Quality Management**.

If there are any questions on this matter, please feel free to contact Kathy Brown at (505) 827-5884 as she is assigned responsibility for review of service facility discharge plans.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long, sweeping horizontal line extending to the right.

William J. LeMay
Director

WJL/kmb

xc: Denny Foust, OCD Aztec Office



BRUCE KING
GOVERNOR

STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION

OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

RECEIVED

'93 JUL 22 AM 9 36

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6176

Certified Mail Receipt #P987-892-066

July 20, 1993

Pioneer Contracting Company, Inc.
Attn. Tony Breadmont
Environmental Coordinator
5970 US HWY 64
Farmington, NM 87401

RE: New Mexico Environmental Department soil remediation site.

Dear Mr. Breadmont:

Pioneer Contracting Company, Inc. (PCCI) is defined by the New Mexico Oil Conservation Division (OCD) as an oilfield service company because PCCI derives its primary income from oil and gas related activities. Businesses deriving their primary income from oil and gas related activities are regulated by the OCD as outlined in the New Mexico Water Quality Control Commission Regulations (WQCC). Under these regulations all activities at yard facilities are monitored and operator's of such facilities may be required to submit a discharge plan outlining activities and defining waste streams etc.

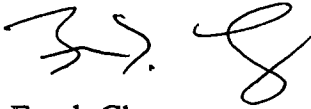
PCCI has approval from the New Mexico Environmental Department Underground Storage Tank Bureau (NMED) to remediate soils from Tedken Oil Company a local refined products jobber on a portion of PCCI's yard facilities. PCCI is to physically separate the NMED approved remediation area from the remainder of the yard by fencing, berming or other means.

Submit a plat of PCCI's yard facilities to the OCD Aztec office which shows the NMED approved area. The NMED approved area is not to be expanded without prior notification of the OCD. PCCI is not to add any PCCI generated waste or any oilfield generated waste to the NMED approved remediation area. PCCI will have an OCD pre-discharge plan inspection before January 1, 1994, which will aid PCCI in complying with discharge regulations and determine the scope of any required discharge plan.

Tony Breadmont
July 20, 1993
Page Two

If you have any questions please feel free to contact Denny Foust or myself at 334-6178.

Yours truly,

A handwritten signature in black ink, appearing to read 'F. Chavez'.

Frank Chavez
District Supervisor

XC: (OCD-Environmental Bureau
Loren Avis-NMED
Environmental Files