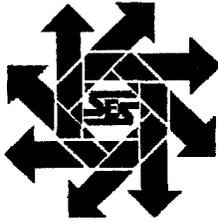


1R - 228

REPORTS

DATE:

2002



P.O. Box 1613
703 E. Clinton Suite 102
Hobbs, New Mexico 88240
505/397-0510
Fax 505/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

January 22, 2002

Mr. Wayne Price
Engineer
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Wayne:

Enclosed please find the Assessment Report of the Conoco State A Battery located in Unit G of Section 33, Township 18 S Range 38 E, Lea County, New Mexico. This battery is active and currently being operated by Saga Petroleum LLC.

The work performed in October 2001 consisted of two (2) boreholes installed in the southwest corner of the battery. The results of the sampling indicate the vertical extent of contamination at the site to be 7' in borehole #1 and 13' in borehole #2. There was no indication that any contamination has migrated into the ground water in this area and no tests were conducted of the ground water.

Saga Petroleum LLC actively operates this battery and requests that no remedial action be required at this time. However, Saga does understand its responsibility for closure of the site upon abandonment.

If you have any questions, or I can be of further assistance please contact me at (505) 397-0510.

Sincerely,

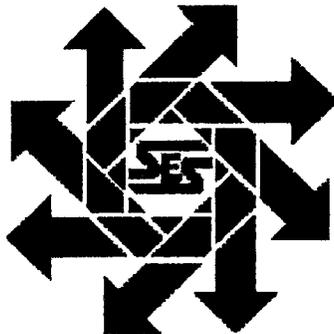
Bob Allen CHMM, REM, CET, CES
President

enclosure

**Saga Petroleum
Site Assessment
Conoco State "A" Battery**

**Unit G Section 33
Township 18 S Range 38 E
Lea County, New Mexico**

October 5, 2001



Prepared for:

**Saga Petroleum-LLC
2121 French Drive
Hobbs, New Mexico 88240**

By:

***Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 102
Hobbs, New Mexico 88240
(505) 397-0510***

RECEIVED
JAN 29 2002
Environmental Bureau
Oil Conservation Division

LETTER WAS
NOT ATTACHED!

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I. Background

Safety & Environmental Solutions, Inc. (SESI) was engaged in October 2001 to perform a site assessment of the Conoco State "A" Battery Site located in Unit G of Section 33 Township 18S, Range 38E, Lea County, New Mexico (Figure 1). The fenced area of the tank battery is approximately 175' X 65' with the large bermed area being approximately 65' X 58'. The material stored at this site is crude oil and produced water. (Figure 2).

II. Work Performed

SESI began the drilling, sampling and field analytical services for this project. SESI used an auger rig with 4" continuous augers for the drilling and a thin wall sampling tube for the extraction of the samples. Two (2) test borings were drilled in the southwest corner of the site within 10' of the 210 bbl storage tank to depths that represent the vertical extent of contamination. The vertical extent of the contamination was considered to be 100ppm TPH and 250ppm Chlorides. The regulatory limits found in "**Unlined Surface Impoundment Closure Guidelines**" *New Mexico Oil Conservation Division* - February 1993 address Total Petroleum Hydrocarbons (TPH), Benzene, Ethyl Benzene, Toluene and Total Xylenes (BTEX).

SESI sampled the test borings at intervals of five (5) feet and performed field analytical tests to determine the extent of contamination of each sample. The field analytical tests performed were Total Petroleum Hydrocarbons (TPH) (EPA Method 418.1) using a General Analysis Corp. Mega TPH, Total Petroleum Hydrocarbon Analyzer Serial # 01196. Soil sampling was performed on soils from each test boring using SOPs found in **Environmental Protection Agency, 1984, Characterization of Hazardous Waste Site - A Methods Manual: Vol II.**

The test borings were plugged with cuttings.

III. Vertical and Horizontal Extent Investigation

A summary of each test boring is presented in the following tables with the field analysis in black print and the laboratory analysis in blue print:

Test Boring # 1

The first test boring was drilled on October 5, 2001 approximately 5' to the southwest of the storage tank in the southwest corner of the site. The boring was drilled to a depth of 7'.

SAMPLE ID	LITHOLOGY	FIELD SAMPLE	GRO	DRO
0-3'	Dark gray sand			
3-5'	Light gray sand	580 ppm		
5-7'	Brown sandy loam	180 ppm		

SAMPLE ID	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	CL
0-3'					
3-5'					
5-7'					

Test Boring # 2

This test boring was drilled on October 5, 2001 approximately 7' due north of Test Boring #1. This boring was drilled to a depth of 13'.

SAMPLE ID	LITHOLOGY	FIELD SAMPLE	GRO	DRO
0-4'	Black/Gray sand			
4-5'	Gray sand	2010 ppm		
5-8'	Brown sandy loam			
8-10'	Brown Sand /rock	340 ppm		
10-13'	Brown sand	68 ppm	<50 ppm	<50 ppm

SAMPLE ID	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	CL
0-4'					
4-5'					
5-8'					
8-10'					
10-13'	<0.005 ppm	<0.005 ppm	<0.005 ppm	<0.015 ppm	128 ppm

IV. Summary

This site assessment has revealed that the contaminated soils were not found below the 7' in test boring #1 and below 13' in test boring #2. There was no indication that any contamination has migrated into the ground water in this area and no tests were conducted of the ground water.

V. Figures and Appendices

Figures:

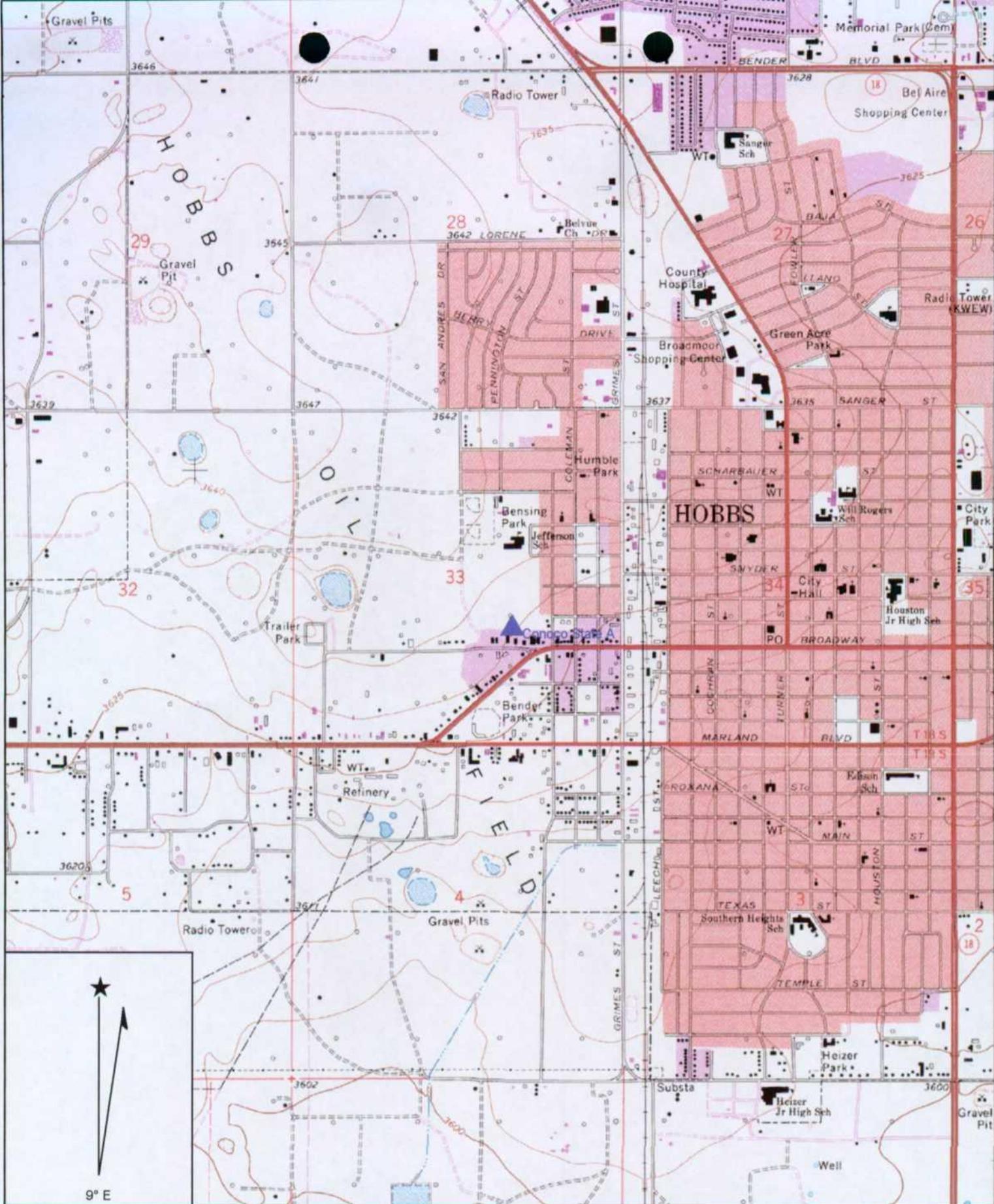
Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendixes:

Appendix A - Lab Analysis

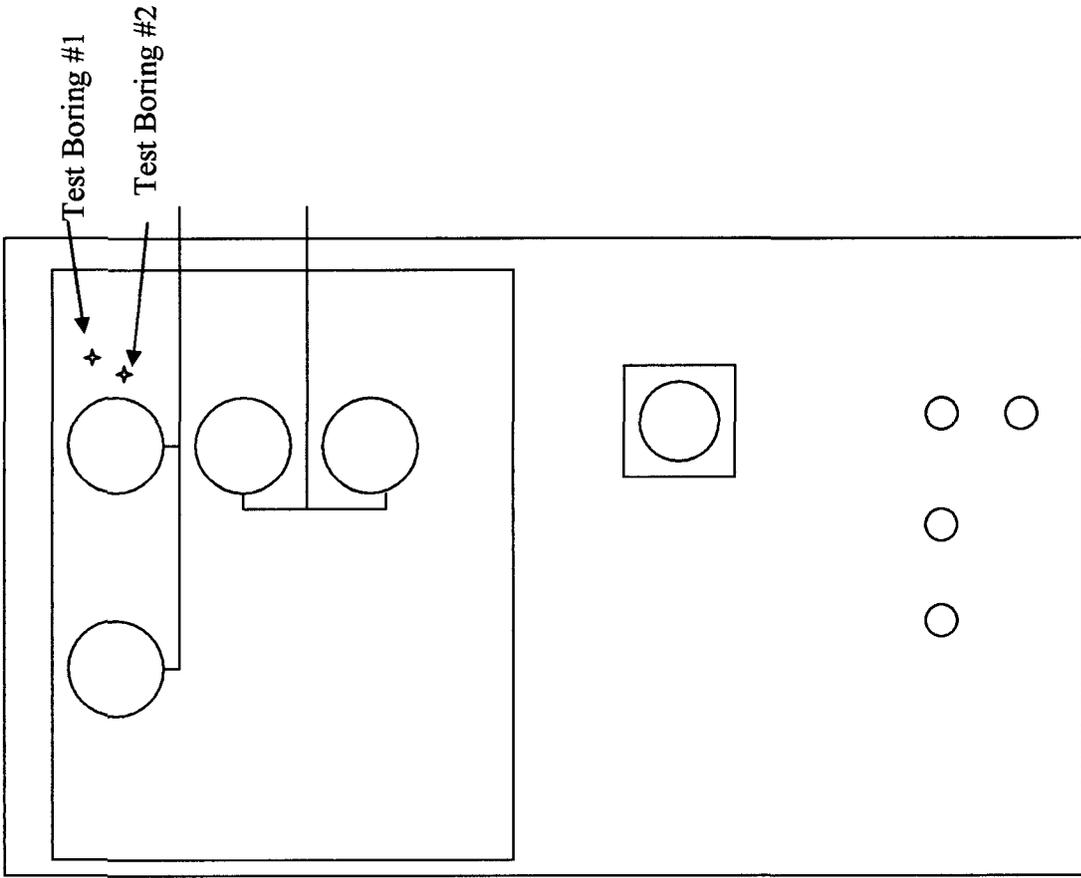
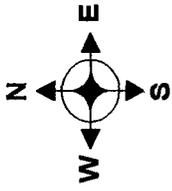
Figure 1
Vicinity Map



Name: HOBBS WEST
 Date: 1/28/2002
 Scale: 1 inch equals 2000 feet

Location: 032° 42' 09.2" N 103° 09' 02.6" W
 Caption: Sage Petroleum LLC
 Conoco State A
 Unit G Sec.33 T18S R38E

Figure 2
Site Plan



Safety & Environmental Solutions, Inc.
Hobbs, New Mexico

**Conoco State "A" Battery
Unit G Sec. 33 T18S R38E**

Saga Petroleum

Appendix A
Laboratory Analysis



ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO:

Receiving Date: 10/05/01	Sampling Date: 10/05/01
Reporting Date: 10/09/01	Sample Type: SOIL
Project Number: NOT GIVEN	Sample Condition: COOL & INTACT
Project Name: NOT GIVEN	Sample Received By: AH
Project Location: SARA CONOCO STATE BATTERY "A"	Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/05/01	10/05/01	10/05/01	10/05/01
H6197-1	BH #2 @ 13'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.100	0.095	0.101	0.298
True Value QC		0.100	0.100	0.100	0.300
% Recovery		100	95.5	101	99.2
Relative Percent Difference		1.1	4.2	3.1	4.3

METHOD: EPA SW-846 8260

Robert J. Allen
Chemist

10/20/01
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, #103
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 10/05/01 Sampling Date: 10/05/01
 Reporting Date: 10/09/01 Sample Type: SOIL
 Project Number: NOT GIVEN Sample Condition: COOL & INTACT
 Project Name: NOT GIVEN Sample Received By: AH
 Project Location: SARA CONOCO STATE BATTERY "A" Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		10/05/01	10/05/01	10/08/01
H6197-1	BH #2 @ 13'	<50	<50	128
Quality Control		796	801	1000
True Value QC		800	800	1000
% Recovery		99.5	100	100
Relative Percent Difference		2.9	1.5	0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B
 *Analysis performed on a 1:4 w:v aqueous extract.

Burgess J. Cochran
 Chemist

10/9/01
 Date

H6197A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

July 10, 1997

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-8181

Saga Petroleum L.L.C.
415 W. Wall
Suite 835
Midland, Texas 79701

Re: **US EPA Inquiry:**

Subject: Conoco "A" State Lease
J-sec 33-Ts 18s-R38e

Dear Sir/Madam:

New Mexico Oil Conservation Division (NMOCD) has received an inquiry from Mr. Greg Pashia, United States Environmental Agency Region VI Dallas, Texas (214-665-2287) concerning surface and possible ground water contamination resulting from operations at the above referenced location.

This location is in close proximity to residences and to a public elementary school on the west side of Hobbs, NM.

The NMOCD has reviewed its files in the District I Hobbs, NM office and has documentation to indicate this site has existing crude oil contamination that has been covered with soil. The NMOCD presently is not aware of any remediation plans on file which indicates how this site was cleaned-up.

Pursuant to NMOCD statutes, rules and regulations, Saga Petroleum L.L.C. will be required to provide the NMOCD within thirty days of receipt of this letter a site investigation plan to determine if existing contamination is a current and/or future threat to ground water, public health, and/or the environment.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

A handwritten signature in cursive script that reads "Chris Williams".

Chris Williams-NMOCD District I Supervisor

CW/lwp: file sagaepa97

cc: Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Greg Pashia- USEPA Region VI-Dallas, TX

attachments- 2- spill reports enclosed.
NMOCD field report, & pictures on file-Hobbs, NM.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Department of Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

SUBMIT 2 COPIES TO
APPROPRIATE DISTRICT
OFFICE IN ACCORDANCE
WITH RULE 116 PRINTED
ON BACK SIDE OF FORM

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

OPERATOR Saga Petroleum L.L.C. of CO					ADDRESS 415 W. Wall, Suite 835, Midland TX 79701			TELEPHONE # 915/684-4293	
REPORT OF	FIRE <input checked="" type="checkbox"/>	BREAK	SPILL	LEAK	BLOWOUT	OTHER*			
TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY <input checked="" type="checkbox"/>	PIPE LINE	GASO PLNT	OIL RFY	OTHER*		
FACILITY NAME: Conoco State/Conoco "A" State Tank Battery									
LOCATION OF FACILITY Qtr/Qtr Sec. or Footage Unit J					SEC. 33	TWP. 18S	RGE. 38E	COUNTY Lea	
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK 0.3 miles from Broadway - Hobbs, NM									
DATE AND HOUR OF OCCURRENCE 8:30 a.m. 4/4/97					DATE AND HOUR OF DISCOVERY 8:45 a.m. 4/4/97				
WAS IMMEDIATE NOTICE GIVEN?		YES <input checked="" type="checkbox"/>	NO	NOT REQUIRED	IF YES, TO WHOM				
BY WHOM "Merch" Merchant					DATE AND HOUR 10:00 a.m. 4/4/97				
TYPE OF FLUID LOST Oil/Water					QUANTITY OF LOSS 20 bbls	VOLUME RECOVERED 15 bbls			
DID ANY FLUIDS REACH A WATERCOURSE?		YES	NO <input checked="" type="checkbox"/>	QUANTITY					
IF YES, DESCRIBE FULLY**									
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN** Leak in firetube on heater treater. Pilot light or burner ignited oil leaking from treater. Emptied treater and replaced fire tube.									
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN** Affected area inside battery fence is approximately 30' x 30', outside fence 20' x 5'. Contaminated soil outside of fence picked up and moved inside battery fence, as per NMOCD instructions. Soil will be remediated in place by tilling with a nitrogen based fertilizer.									
DESCRIPTION OF AREA		FARMING	GRAZING	URBAN <input checked="" type="checkbox"/>	OTHER*				
SURFACE CONDITIONS		SANDY <input checked="" type="checkbox"/>	SANDY LOAM	CLAY	ROCKY	WET	DRY <input checked="" type="checkbox"/>	SNOW	
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)** Windy, overcast									
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF									
SIGNED 		PRINTED NAME AND TITLE Joe N. Clement Area Engineer			DATE 4/15/97				

*SPECIFY

**ATTACH ADDITIONAL SHEETS IF NECESSARY

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 2 COPIES TO
APPROPRIATE DISTRICT
OFFICE IN ACCORDANCE
WITH RULE 116 PRINTED
ON BACK SIDE OF FORM

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

OPERATOR PENROC OIL CORPORATION				ADDRESS P.O. BOX 5970 Hobbs, NM			TELEPHONE 397-3596
REPORT OF	FIRE X	BREAK	SPILL	LEAK	BLOWOUT	OTHER*	
TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY X	PIPE LINE	GASO PLNT	OIL RFY	OTHER*
FACILITY NAME: CONOCO A STATE							
LOCATION OF FACILITY Qtr/Qtr Sec. or Footage				SEC. 33	TWP. 18S	RGE. 38E	COUNTY LEA
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK .3 mile from Broadway - Hobbs, New Mexico							
DATE AND HOUR OF OCCURRENCE 5/12/94 8:00 A.M.				DATE AND HOUR OF DISCOVERY 5/12/94 8:00 A.M.			
WAS IMMEDIATE NOTICE GIVEN?		YES X	NO	NOT REQUIRED	IF YES, TO WHOM M. Y. (Merch) Merchant President		
BY WHOM Employee of Concrete, Inc.				DATE AND HOUR 5/12/94 8:00 A.M.			
TYPE OF FLUID LOST OIL				QUANTITY OF LOSS 15		VOLUME RECOVERED None	
DID ANY FLUIDS REACH A WATERCOURSE?		YES	NO X	QUANTITY			
IF YES, DESCRIBE FULLY**							
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**							
OIL TANK STRUCK BY LIGHTENING. HOBBS FIRE DEPARTMENT AND HOBBS POLICE WERE NOTIFIED IMMEDIATELY.							
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN**							
NO PHYSICAL SURFACE EFFECTED. DESTROYED THE TANKAGE AND BURNT OIL IN THE TANK.							
DESCRIPTION OF AREA	FARMING	GRAZING	URBAN X	OTHER*			
SURFACE CONDITIONS	SANDY X	SANDY LOAM	CLAY	ROCKY	WET X	DRY	SNOW
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)**							
TEMP. 58°. THUNDER STORM, HEAVY RAIN, SEVERE LIGHTENING, AND HIGH WINDS.							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
SIGNED				PRINTED NAME AND TITLE Mohammed Yamin Merchant President		DATE 5/12/94	

*SPECIFY

**ATTACH ADDITIONAL SHEETS IF NECESSARY.

1. The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any injection or disposal facility or at any oil or gas drilling, producing, transporting, or processing facility in the State of New Mexico by the person operating or controlling such facility.

3. "Facility," for the purpose of this rule, shall include any oil or gas well, any injection or disposal well, and any drilling or workover well; any pipe line through which crude oil, condensate, casinghead or natural gas, or injection or disposal fluid (gaseous or liquid) is gathered, piped, or transported (including field flow-lines and lead-lines but not including natural gas distribution systems); any receiving tank, holding tank, or storage tank, or receiving and storing receptacle into which crude oil, condensate, injection or disposal fluid, or casinghead or natural gas is produced, received, or stored; any injection or disposal pumping or compression station including related equipment; any processing or refining plant in which crude oil, condensate, or casinghead or natural gas is processed or refined; and any tank or drilling pit or slush pit associated with oil or gas production or processing operations or with injection or disposal operations and containing hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, or other deleterious chemicals or harmful contaminants.

C. Notification of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

(1) Well Blowouts. Notification of well blowouts and/or fires shall be "immediate notification" described below. ("Well blowout" is defined as being loss of control over and subsequent eruption of any drilling or workover well, or the rupture of the casing, casinghead, or wellhead or any oil or gas well or injection or disposal well, whether active or inactive, accompanied by the sudden emission of fluids, gaseous or liquid, from the well.)

(2) Major Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 25 or more barrels of crude oil or condensate, or 100 barrels or more of salt water, none of which reaches a watercourse or enters a stream or lake; breaks, spills, or leaks in which one or more barrels of crude oil or condensate or 25 barrels or more of salt water does reach a watercourse or enters a stream or lake; and breaks, spills, or leaks of hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, gases, or other deleterious chemicals or harmful contaminants of any magnitude which may with reasonable probability endanger human health or result in substantial damage to property, shall be "immediate notification" described below.

(3) Minor Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 5 barrels or more but less than 25 barrels of crude oil or condensate, or 25 barrels or more but less than 100 barrels of salt water, none of which reaches a watercourse or enters a stream or lake, shall be "subsequent notification" described below.

(4) Gas Leaks and Gas Line Breaks. Notification of gas leaks from any source or of gas pipe line breaks in which natural or casinghead gas of any quantity has escaped or is escaping which may with reasonable probability endanger human health or result in substantial damage to property shall be "immediate notification" described below. Notification of gas pipe line breaks or leaks in which the loss is estimated to be 1000 or more SCF of natural or casinghead gas but in which there is no danger to human health nor of substantial damage to property shall be "subsequent notification" described below.

(5) Tank Fires. Notification of fires in tanks or other receptacles caused by lightning or any other cause, if the loss is, or it appears that the loss will be, 25 or more barrels of crude oil or condensate, or fires which may with reasonable probability endanger human health or result in substantial damage to property, shall be "immediate notification" as described below. If the loss is, or it appears that the loss will be at least 5 barrels but less than 25 barrels, notification shall be "subsequent notification" described below.

(6) Drilling Pits, Slush Pits, and Storage Pits and Ponds. Notification of breaks and spills from any drilling pit, slush pit, or storage pit or pond in which any hydrocarbon or hydrocarbon waste or residue, strong caustic or strong acid, or other deleterious chemical or harmful contaminant endangers human health or does substantial surface damage, or reaches a watercourse or enters a stream or lake in such quantity as may with reasonable probability endanger human health or result in substantial damage to such watercourse, stream, or lake, or the contents thereof, shall be "immediate notification" as described below. Notification of breaks or spills of such magnitude as to not endanger human health, cause substantial surface damage, or result in substantial damage to any watercourse, stream, or lake, or the contents thereof, shall be "subsequent notification" described below, provided however, no notification shall be required where there is no threat of any damage resulting from the break or spill.

(7) IMMEDIATE NOTIFICATION. "Immediate Notification" shall be as soon as possible after discovery and shall be either in person or by telephone to the district office of the Division district in which the incident occurs, or if the incident occurs after normal business hours, to the District Supervisor, the Oil and Gas Inspector, or the Deputy Oil and Gas Inspector. A complete written report ("Subsequent Notification") of the incident shall also be submitted in DUPLICATE to the appropriate district office of the Division within ten days after discovery of the incident.

(8) SUBSEQUENT NOTIFICATION. "Subsequent Notification" shall be a complete written report of the incident and shall be submitted in duplicate to the district office of the Division district in which the incident occurred within ten days after discovery of the incident.

(9) CONTENT OF NOTIFICATION. All reports of fires, breaks, leaks, spills, or blowouts, whether verbal or written, shall identify the location of the incident by quarter-quarter, section, township, and range, and by distance and direction from the nearest town or prominent landmark so that the exact site of the incident can be readily located on the ground. The report shall specify the nature and quantity of the loss and also the general conditions prevailing in the area, including precipitation, temperature, and soil conditions. The report shall also detail the measures that have been taken and are being taken to remedy the situation reported.

(10) WATERCOURSE. for the purpose of this rule, is defined as any lake-bed or gully, draw, stream bed, wash, arroyo, or natural or man-made channel through which water flows or has flowed.

RECEIVED

MAY 13 1994

**U.S. HUDDS
OFFICE**