

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

API # 30-039-23368

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Kimbell Oil Company	Contact	Mr. Earl North (Bloomfield, NM) : Jon Stickland (Ft. Worth)
Address	777 Taylor Street, Suite P-IIA, Ft. Worth, TX 76102	Telephone No.	505-320-3579 : 817-335-2591 X 30
Facility Name	Salazar No. 4E	Facility Type	Production Tank Battery area inside of earthen berms

Surface Owner	BLM (Federal)	Mineral Owner	BLM (Federal)	Lease No.	SF-080136
---------------	---------------	---------------	---------------	-----------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	34	25N	6W	1630' 7600	NORTH	1460' 7540	WEST	RIO ARRIBA

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Condensate inside of fully contained production tank Berms/walls.	Volume of Release 183.06 Bbls.	Volume Recovered 0.0 Bbls.
Source of Release Failed production tank valve. (Valve froze and split with accumulated fresh water inside valve)	Date and Hour of Occurrence January 12, 2006, Unknown	Date and Hour of Discovery January 12, 2006 @ 1630 HRS MST
Was Immediate Notice Given? Within 24 Hours XX Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mr. Charles Perrin, NMOCD, District #3, Aztec, NM @ 1157 Hrs MST	
By Whom? Jonathan M. Stickland	Date and Hour January 13, 2006 @ 1157 Hrs. MST	
Was a Watercourse Reached? All condensate was contained within bermed/walled area around tanks <input type="checkbox"/> Yes XX No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
NOT IMPACTED

Describe Cause of Problem and Remedial Action Taken.*

Site Excavation, remediation and restoration actions are detailed and described in attached Full Report of Spill Cleanup as supervised by Envirotech Inc., Farmington, NM and as approved onsite by both NMOCD and Federal BLM personnel.

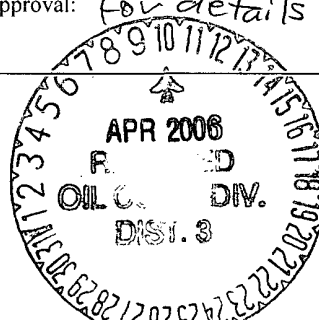
Describe Area Affected and Cleanup Action Taken.*

****Note: Land Farming of Bio-Piles of contaminated soils will continue until contamination is removed as per State and Federal Guidelines.**
*****SEE ATTACHED FINAL EXCAVATION AND CLEANUP REPORT BY ENVIROTECH, INC*****

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Jonathan M. Stickland</i>	OIL CONSERVATION DIVISION	
Printed Name: Jonathan M. Stickland	Approved by District Supervisor: <i>Denny G. Zopf</i> <i>for Charles Perrin</i>	
Title: Operations Engineering	Approval Date: <i>4/12/06</i>	Expiration Date:
E-mail Address: jms@kimbeloil.com	Conditions of Approval: <i>See well file for details</i>	Attached <input type="checkbox"/>
Date: March 29, 2006 Phone: (817) 335-2591 X 30		

* Attach Additional Sheets If Necessary



106F0602456577

58

SPILL CLEANUP REPORT

AT:

SALAZAR No. 4E

API No. 30-039-23368

UNIT F, SEC 34, TWP 25N, RNG 6W

RIO ARriba COUNTY, NEW MEXICO

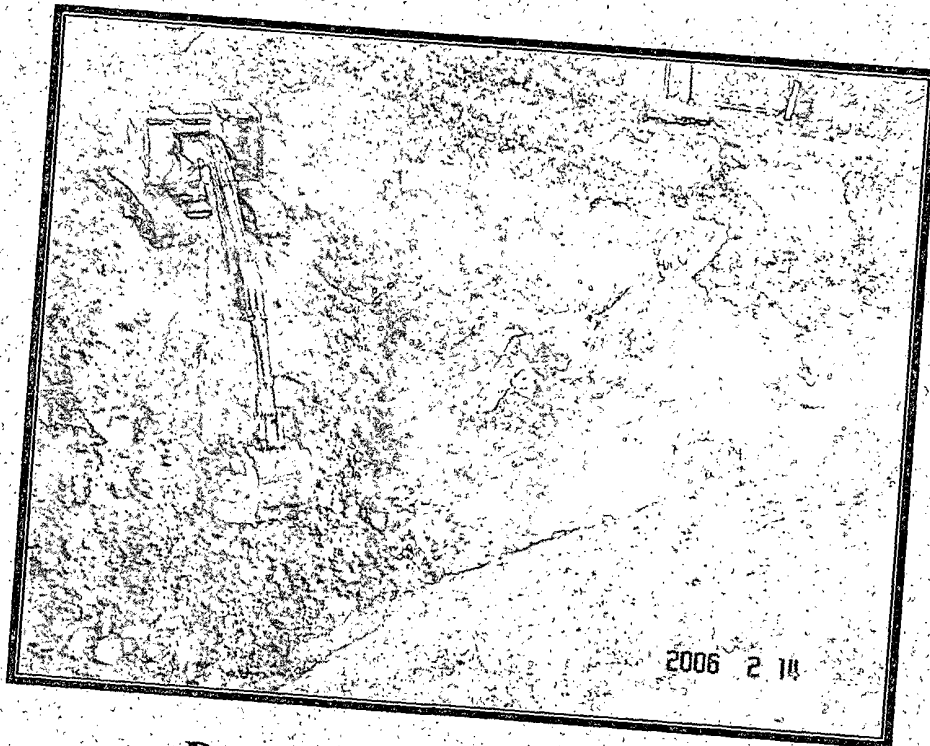
FOR:

MR. JONATHAN STICKLAND

KIMBELL OIL COMPANY OF TEXAS

777 TAYLOR STREET, SUITE P-IIA

FORT WORTH, TEXAS 76102



PROJECT No. 06011-001

MARCH 2006

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 24, 2006

Project No. 06011-001

Mr. Jonathan M. Stickland
Kimbell Oil Company of Texas
777 Taylor Street, Suite P-IIA
Fort Worth, Texas 76102

Phone: (817) 335-2593
Fax: (817) 338-1355

**RE: SPILL CLEANUP AT THE SALAZAR No. 4E, UNIT F, SEC 34, TWP 25N, RNG 6W,
RIO ARriba COUNTY, NEW MEXICO**

Dear Mr. Stickland:

Enclosed please find one (1) original and three (3) copies of the report entitled, *Spill Cleanup Report*, for Spill Cleanup and Site Restoration activities completed at the Salazar No. 4E, Unit F, Sec 34, Twp 25N, Rng 6W, Rio Arriba County, New Mexico.

In addition, there is a C-144, *Pit or Below-Grade Tank Registration or Closure* and a Form 3160-5, *Sundry Notices and Reports on Wells*. Please sign both of these documents and forward along with a copy of the above mentioned report to the respective agencies listed below.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.



Michael P. Marquez
Environmental Scientist / Safety Officer
mmarquez@envirotech-inc.com

Enclosures: Four (4) Reports and Two (2) Aforementioned Forms

Cc: Mr. Denny Foust, NMOCD (C-144 and copy of the report)
Mr. Bart Dodson, BLM (Form 3160-5 and copy of the report)

Client File No. 06011



INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Kimbell Oil Company of Texas to provide environmental spill response and cleanup services at the Salazar No. 4E, Unit F, Sec 34, Twp 25N, Rng 6W, Rio Arriba County, New Mexico; see **Figure 1, Vicinity Map**. A ball valve on a 300 barrel (bbl) production tank had frozen, forcing the valve to push through the threadings releasing approximately 183 bbls of condensate. Cleanup activities included the environmental excavation of contaminated soil, transportation of contaminated soils, acquisition of backfill soils, continual confirmation sampling, and the documentation of site activities.

ACTIVITIES PERFORMED

Envirotech was contacted with a request to respond to a release of 183 bbls of condensate at the above referenced location. An initial site assessment was completed by Mr. Morgan Killion, General Superintendent for Envirotech. His assessment enabled the proper planning of the estimated scope of work necessary to respond accordingly to the environmental incident.

On January 18, 2006, Mr. Michael Marquez, Environmental Scientist for Envirotech, traveled to the site to hand auger four (4) borings to three (3) feet below ground surface (BGS). These borings were completed in an attempt to determine what site equipment, if any, would need to be relocated. The hand auger locations are noted as S1 through S4; see **Figure 2, Site Map**. At the required depth, a sample was taken and screened in the field using an Organic Vapor Meter (OVM). The samples were collected into quart-size Ziplock baggies, filled approximately half-full, allowed to heat to approximately 65 degrees Fahrenheit, and the peak measurement recorded. Field screening showed all hand auger locations exceeded the 100 parts per million (ppm) criteria determined from the New Mexico Oil Conservation Division (NMOCD) guidelines found in a publication titled *Guidelines for Remediation of Leaks, Spills, and Releases*, dated August 13, 1993. These ranking criteria were determined by the following field observations:

1. Depth to Ground Water; < 50 vertical feet; NMOCD Ranking of 20 points
2. Distance to Surface Water Body; < 200 horizontal feet; NMOCD Ranking of 20 points

Following the guidelines in the aforementioned publication, any ranking which exceeds 20 points is required to have closure sample analysis of Total Petroleum Hydrocarbons (TPH) < 100 ppm and a Total Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) of < 50,000 ppb.

On the same day hand auguring was completed, Mr. Bart Dodson, with the Bureau of Land Management (BLM), Farmington District Office, arrived on-site to determine what stipulations and requirements would be required from the BLM while excavation activities commenced. Mr. Dodson expressed a concern due to the proximity of the Salazar No. 4E to the Largo Wash. Because of this concern, he requested all impacted soils be transported away from the flood plain, to sites without the concern for surface water patterns. Additionally, he also began the task of finding borrow soil locations to be used as a source for local backfill material.

Mr. Marquez also completed an additional assessment of the berm containment area surrounding the Aboveground Storage Tanks (AST). Measurements were taken of the width and length of the berm as well as the lowest point found vertically throughout the bermed area. Field calculations found that the berm complied with SPCC requirements and had sufficient area to hold the largest capacity of the two (2) AST's present, see ***Section 4, Containment Calculations.***

To respond accordingly to the field data and observations identified by the BLM, Envirotech initially transported a track-hoe and two (2) front-end loaders to the Salazar No. 4E for the environmental excavation of impacted soils. One (1) front-end loader was taken to the first of many locations needed to gather backfill material and to create a bio-pile for impacted soils. The remaining equipment was kept at the Salazar No. 4E and the environmental excavation commenced.

Upon initial penetration of the ground surface, strong hydrocarbon odors were detected. Overwhelming hydrocarbon vapors present indicated impacted soils being removed were from the release of the 183 bbls of condensate. A field assessment concluded the release would have an area equal to that of the bermed area surrounding the aboveground storage tanks (AST) and would migrate through subsurface soils in a conical pattern.

At approximately nine (9) feet below ground surface (BGS), dark grey to black soils were encountered; see ***Section 3, Site Photography.*** Additional excavation visually verified we had encountered substantially more impacted soils than previously anticipated. With this new site information, environmental excavation would follow all contaminants until remaining soils were below NMOCD guidelines.

As contaminated soils were excavated with the track-hoe, the front-end loader piled then loaded 20 cubic yard (yd³) belly dump trucks to minimize the accumulation of soils on-site. Impacted soils were transported to other Kimbell Oil Company of Texas lease sites within the immediate area to be placed into bio-piles. To minimize the unnecessary removal of non-impacted soil, overburden was removed as applicable, depending on contamination patterns, and stockpiled on-site to be later used as backfill material.

On February 1, 2006, a discrete sample was taken from 22 feet BGS and analyzed for TPH in the field using USEPA Method 418.1 as well as an OVM. Field TPH determination showed a TPH value of 4,930 ppm and an OVM measurement of 676 ppm; see ***Section 2, 418.1 Field Analysis.*** Based on this field data, continued vertical excavation was necessary to fully remove contaminated soils.

To determine the approximate amount of impacted soils remaining, five (5) test holes were dug and screened using an OVM and visual observations surrounding the extent of excavation on February 3, 2006. These test holes, identified as TH-1 through TH-5, see **Figure 2, Site Map**, gave verifiable data to develop further excavation planning. Although TH-2 showed an OVM measurement above screening level, the west wall was later determined to be below NMOCD guidelines for TPH. The data provided by the test holes was an invaluable resource in directing the continued excavation of soils.

A sample was taken at 28 feet BGS on February 6, 2006. The sample was screened in the field using an OVM following the referenced field method. The sample passed the established 100 ppm screening standard, therefore the soil was transferred into a four (4) ounce glass jar, placed inside an ice chest, and transported under a Chain of Custody document to Envirotech's Laboratory for analysis by USEPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons and by USEPA Method 8021 Aromatic Volatile Organics. Upon review of laboratory analysis, the sample showed measurements of 5.1 ppm TPH and Total BTEX of 1,050 parts per billion (ppb), both of which are below NMOCD established guidelines; see **Section 1, Laboratory Analysis**. Based on the laboratory data, it was established that 28 feet BGS would be the vertical extent of contamination.

Mr. Denny Foust of the NMOCD inspected the site on February 7, 2006. Mr. Foust gave instructions for the continued excavation of the site until all impacted soils had been removed to the greatest extent possible. Also completed on this day was the additional closure sampling of the south wall and southern portion of the east wall. A review of laboratory analysis showed both areas were below regulatory guidelines; see **Section 1, Laboratory Analysis**. Both of these wall areas were the furthest up-gradient as determined by surface geology. The surface was relatively planar with a slight slope to the northeast. As an additional safety measure, Mr. Foust requested a four (4) inch piping barricade to be constructed as a barrier and placed around the wellhead; see **Section 3, Site Photography**. This would prevent the accidental contact of any mobile site equipment with the wellhead. Contact with the wellhead would be detrimental to site activities. Mr. Earl North made the appropriate arrangements for construction of the barrier the following day.

Excavation continued in a northeasterly direction throughout the following days. A sampling event was completed on February 15, 2006. An area of concern was found on the northern area of the east wall, although TPH was at 152 ppm, a Total BTEX analysis showed a measurement of 101,710 ppb; see **Section 1, Laboratory Analysis**. This amount is twice the regulatory level as determined by the NMOCD publication referenced on page one (1) of this report. Field screening was completed throughout this time period to guide the excavation to prevent the unnecessary removal of non-impacted soils.

On February 21, 2006, a meeting with Mr. Denny Foust, NMOCD, Mr. Mike Stahle, Field Superintendent for Envirotech, and Mr. Michael Marquez was conducted. The purpose of the meeting was to determine the status of the project and to discuss upcoming planning and necessary work steps to complete the excavation. A site map was presented showing the overall progress with the estimated contamination still assumed to be present. Mr. Foust agreed the process was being completed as required and then asked for additional test holes to be dug. These test holes (TH) can be identified as: TH 10 feet west from meter (TH-6), TH 25 feet NE of wellhead (TH-7), and TH 20 feet N of wellhead (TH-8); see **Figure 2, Site Map and Section 1, Laboratory Analysis**. Test holes TH-6 and TH-7 were well below established criteria. TH-8, at a depth of 15 feet, showed a TPH value of 4,570 ppm which exceeded NMOCD standards of 100 ppm. Based on this data, additional excavation would need to continue in an easterly direction until all impacted soils greater than established standards had been removed. An additional test hole was completed approximately 17 feet east of the meter house (TH-9) with OVM measurements below the 100 ppm standards; see **Figure 2, Site Map and Section 3, Site Photography**.

Special concern was taken when excavating near the wellhead during the following days. A spotter was used on the ground to guide the track hoe operator when the equipment was in the vicinity of the wellhead barriers.

The last sampling event was completed on March 6, 2006. Samples were taken of the remaining walls. The walls in question were the north and east walls. A review of laboratory analysis showed TPH levels to be Non Detectible (ND) in both walls. Permission was given to backfill the excavation and start compacting soils for the re-construction of well site equipment.

Backfill was pushed into the excavation with the front-end loader so that a ramp could safely be constructed. This ramp would allow the semi-trucks to release the backfill soil directly into the excavation. As the soils were released, the front-end loader would level and compact the soils with the pneumatic tires as well as the weight of the machine. Some of the backfill material used initially came from a stock pond; this material had a sufficient moisture content to optimize compaction of the backfill materials.

The site activities were completed on March 13, 2006. The area was returned to original grade and conditions; see **Section 3, Site Photography**.

SOIL IMPACT

An estimated 12,500 yd³ of soils has been removed from the Salazar No. 4E and placed in four (4) bio-piles. These four (4) bio-piles are on the same lease as the Salazar No. 4E. All impacted soils have been removed in accordance with NMOCD guidelines and will be treated, monitored and sampled until levels are below regulatory guidance.

GROUNDWATER IMPACT

Although groundwater was not visibly encountered, the upper portion of the water / soil interface was believed to have occurred at 26 feet BGS. This can be seen in ***Section 2, Site Photography***. A sample taken at 28 feet BGS shows levels below regulatory guidelines. Based on the extensive amount of contamination encountered, it is feasible to assume groundwater has been impacted. It is recommended that a series of three (3) monitors be drilled and completed as monitor wells to define the horizontal extent of contamination. The proposed locations can be referenced on ***Figure 3, PMW Locations***.

RECOMMENDATIONS

Envirotech, Inc. recommends the monthly mixing and blending of the above stated bio-piles. To further aide in the breakdown of the residual hydrocarbons, urea nitrate will be added to the piles during the on-site blending process. In addition, quarterly sampling will be completed in coordination with field activities to accurately determine the appropriate monitoring time remaining. As a cost saving measure, five (5) point composite samples will be taken for approximately every 500 yd³ to monitor the progress of the contaminated soil. Samples will be delivered to Envirotech's Laboratory and analyzed by the following methods:

1. USEPA Method 8015;
2. USPEA Method 8021

At the time when the contaminants fall below regulatory guidelines in the previously stated amounts, final closure sampling will consist of a five (5) point composite sample for approximately every 200 yd³ of contamination present. When the piles fall below regulatory guidelines, the soil will be released to be used as Kimbell Oil Company of Texas sees fit.

Envirotech further recommends that monitor wells be placed to determine the horizontal and vertical extent of groundwater contamination. These monitor wells will also monitor the natural attenuation of the groundwater to verify that the site has been successfully remediated.

STATEMENT OF LIMITATIONS


Envirotech has completed the environmental excavation from an initial release of 183 barrels of condensate from the Salazar No. 4E, Unit F, Sec 34, Township 25N, Range 6W, Rio Arriba County, New Mexico, and restored the site to pre-incident conditions. The work and services provided by Envirotech were in accordance with the NMOC standards. All observations and conclusions provided here are based on the information and current site conditions found at the site throughout the spill response activities.

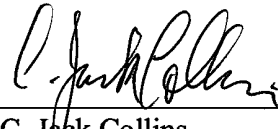
The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

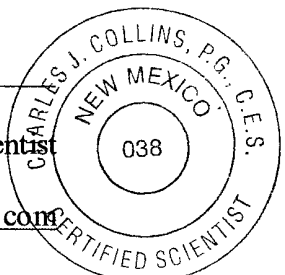
We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

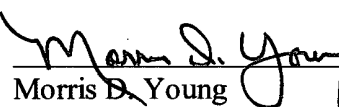
Respectfully Submitted,
ENVIROTECH INC.

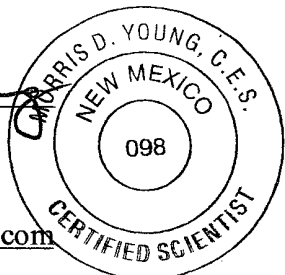
Reviewed by:


Michael P. Marquez
Environmental Scientist / Safety Officer
mmarquez@envirotech-inc.com


C. Jack Collins
Chief Environmental Scientist
NMCES #038
cjcollins@envirotech-inc.com




Morris D. Young
President
NMCES #098
myoung@envirotech-inc.com



**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEANUP REPORT
SALAZAR NO. 4E**

TABLE OF CONTENTS

Introduction	1
Activities Performed	1
Soil Impact.....	4
Groundwater Impact	5
Recommendations.....	5
Statement of Limitations	6

Figures: Figure 1, Vicinity Map
 Figure 2, Site Map
 Figure 3, PMW Locations

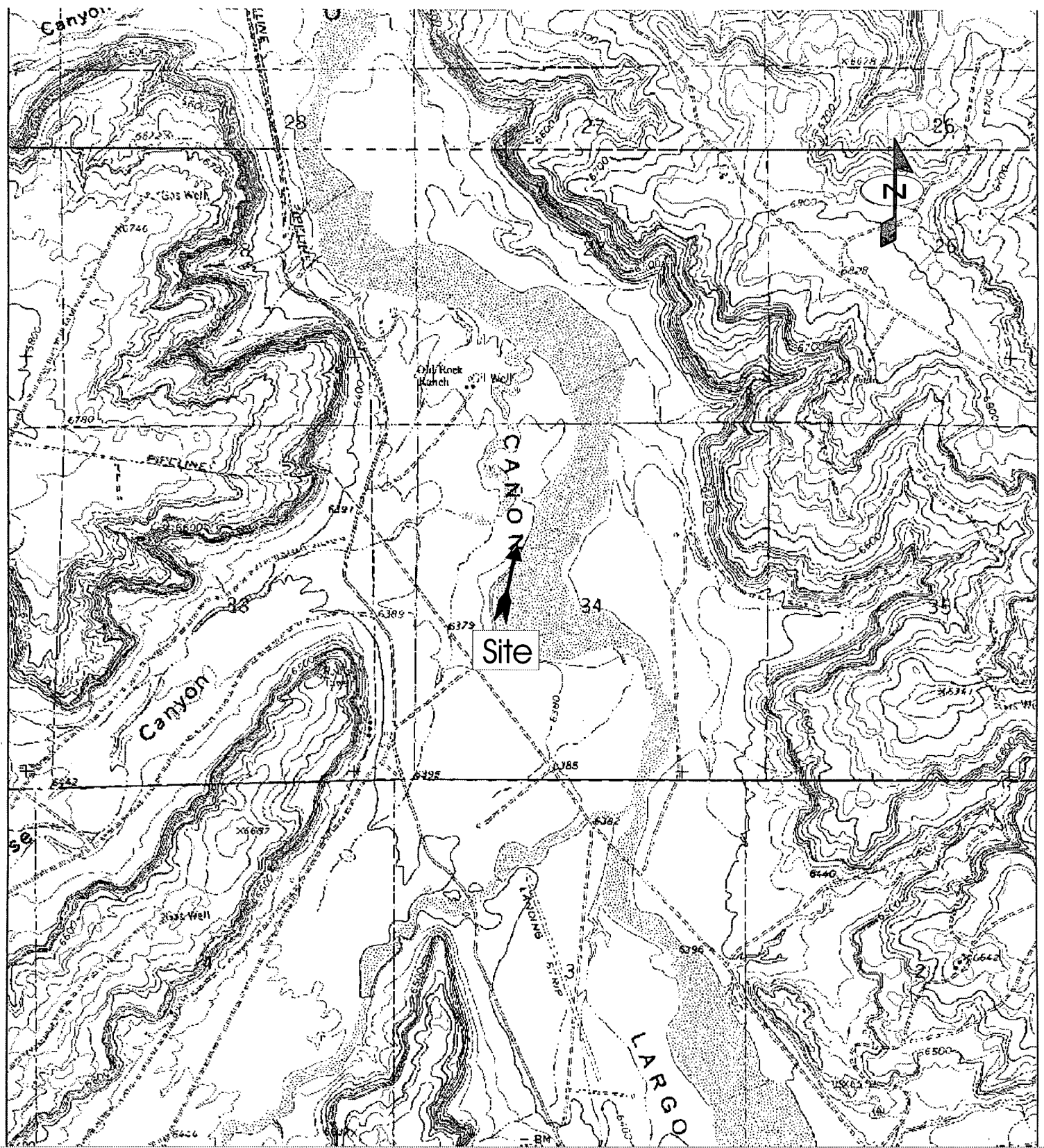
Sections: Section 1, Laboratory Analysis
 Section 2, 418.1 Field TPH Analysis
 Section 3, Site Photography
 Section 4, Secondary Containment Calculations

Figures

Figure 1, Vicinity Map

Figure 2, Site Map

Figure 3, PMW Locations



Source: Tafoya Canyon, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

Kimbell Oil Company of Texas
 Salazar No. 4E
 Unit F, Sec 34, Twp 25N, Rng 6W
 Rio Arriba County, New Mexico

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
 5796 U.S. HIGHWAY 64
 FARMINGTON, NEW MEXICO 87401

PHONE (505) 632-0615

Vicinity Map

Figure 1

DRAWN BY:
 Michael P. Marquez

PROJECT MANAGER:
 C. Jack Collins

PROJECT # 06011-001 Date Drawn: 1/30/06



TH-6, depth 13'
No visual contamination

TH-6, depth 17'
OVM: 0 ppm
TPH: ND

TH-7, depth 16'
OVM: 90 ppm
TPH: ND

TH-5, depth 5'
OVM Overrange

N. Wall
OVM: 887 ppm
TPH: 267 ppm
BTEX: 11,270 ppb

TH-4, depth 13'
OVM 6.5 ppm

TH-2, depth 12'
OVM 321 ppm

Separator

Dehydrator

TH-3, depth 13'
Visual contamination

TH-1, depth 6'
OVM 365 ppm

TH-8, depth 15'
OVM: 774 ppm
TPH: 4,570 ppm
BTEX: 30,590 ppb

Meter House

TH-9, depth 20'
OVM: 43 ppm

BGT

S3

S2

S4

S1

Kimbell Oil Co. of Texas
Salazar No. 4E
Unit F, Sec 34, Twp 25N, Rng 6W
Rio Arriba County, New Mexico

Legend

S1: OVM 953 ppm
S2: OVM 1531 ppm
S3: OVM 530 ppm
S4: OVM 1061 ppm

----- Original locations of site equipment.

— Solid blue line denotes areas at extent of excavation that are below NMOC guidelines

□ TH: Denotes Test Hole

SCALE: 1" = 30'

PROJECT NO. 06011-001

FIGURE NO. 2

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	2/20/06	MPM	Current excavation dimensions
MAP DRWN	MPM	1/18/06	BASE DRWN MPM 1/18/06

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



PMW-2

PMW-3

Separator

Dehydrator

Meter House

PMW-1

S3

S4

S2

S1

BGT

Kimbell Oil Co. of Texas
Salazar No. 4E
Unit F, Sec 34, Twp 25N, Rng 6W
Rio Arriba County, New Mexico

SCALE: 1" = 30'

PROJECT NO. 06011-001

FIGURE NO. 3

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
1			
MAP DRWN	MPM	1/18/06	BASE DRWN MPM 1/18/06

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

Legend

S1: Denotes Sample Point

S1: OVM 953 ppm

S2: OVM 1531 ppm

S3: OVM 530 ppm

S4: OVM 1061 ppm

----- Original locations of site equipment.

— Solid blue line denotes areas at extent of excavation that are below NMOCD guidelines

TH: Denotes Test Hole

PMW-1: Proposed Monitor Well

Section 1

Laboratory Analysis

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

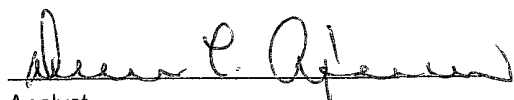
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Bottom @ 28'	Date Reported:	02-07-06
Laboratory Number:	36145	Date Sampled:	02-06-06
Chain of Custody No:	15506	Date Received:	02-06-06
Sample Matrix:	Soil	Date Extracted:	02-07-06
Preservative:	Cool	Date Analyzed:	02-07-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

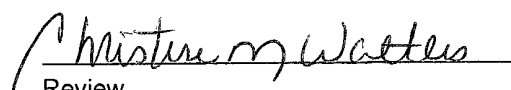
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.1	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	5.1	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-07-06 QA/QC	Date Reported:	02-07-06
Laboratory Number:	36145	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-07-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9711E+002	9.9811E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0004E+003	1.0024E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	5.1	5.2	2.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

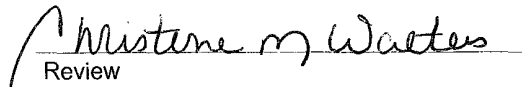
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	5.1	250	255	99.9%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 36145 - 36148.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	Bottom @ 28'	Date Reported:	02-07-06
Laboratory Number:	36145	Date Sampled:	02-06-06
Chain of Custody:	15506	Date Received:	02-06-06
Sample Matrix:	Soil	Date Analyzed:	02-07-06
Preservative:	Cool	Date Extracted:	02-07-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	15.4	1.8
Toluene	176	1.7
Ethylbenzene	101	1.5
p,m-Xylene	599	2.2
o-Xylene	158	1.0
Total BTEX	1,050	

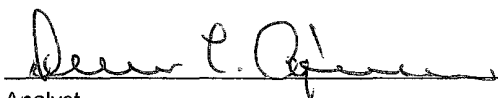
ND - Parameter not detected at the stated detection limit.

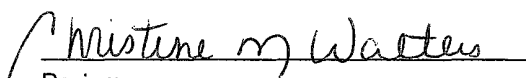
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Salazar 4E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-07-BTEX QA/QC	Date Reported:	02-07-06
Laboratory Number:	36145	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-07-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	5.2367E+007	5.2472E+007	0.2%	ND	0.2
Toluene	4.7468E+007	4.7564E+007	0.2%	ND	0.2
Ethylbenzene	3.5401E+007	3.5472E+007	0.2%	ND	0.2
p,m-Xylene	7.2386E+007	7.2531E+007	0.2%	ND	0.2
o-Xylene	3.4900E+007	3.4970E+007	0.2%	ND	0.1

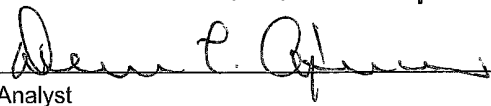
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	15.4	15.3	0.6%	0 - 30%	1.8
Toluene	176	175	0.5%	0 - 30%	1.7
Ethylbenzene	101	100	0.7%	0 - 30%	1.5
p,m-Xylene	599	598	0.1%	0 - 30%	2.2
o-Xylene	158	157	0.4%	0 - 30%	1.0

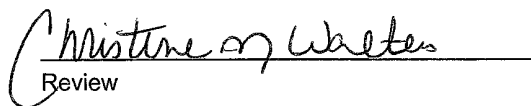
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	15.4	50.0	65.3	99.8%	39 - 150
Toluene	176	50.0	226	100.0%	46 - 148
Ethylbenzene	101	50.0	151	99.9%	32 - 160
p,m-Xylene	599	100	697	99.8%	46 - 148
o-Xylene	158	50.0	207	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 36145 - 36148.


Analyst


Review

1559

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

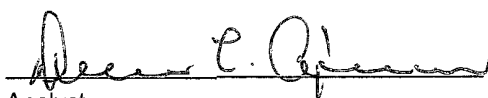
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	S. Wall	Date Reported:	02-09-06
Laboratory Number:	36172	Date Sampled:	02-07-06
Chain of Custody No:	15517	Date Received:	02-08-06
Sample Matrix:	Soil	Date Extracted:	02-08-06
Preservative:	Cool	Date Analyzed:	02-09-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons


Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	E. Wall, Southern Area	Date Reported:	02-09-06
Laboratory Number:	36173	Date Sampled:	02-07-06
Chain of Custody No:	15517	Date Received:	02-08-06
Sample Matrix:	Soil	Date Extracted:	02-08-06
Preservative:	Cool	Date Analyzed:	02-09-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-09-06 QA/QC	Date Reported:	02-09-06
Laboratory Number:	36169	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-09-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9402E+002	9.9501E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9029E+002	9.9228E+002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 36169 - 36173.


Analyst


Review

٧٥٥٦

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

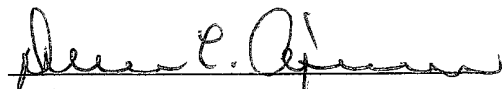
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	W. Wall (Composite)	Date Reported:	02-17-06
Laboratory Number:	36245	Date Sampled:	02-15-06
Chain of Custody No:	15556	Date Received:	02-15-06
Sample Matrix:	Soil	Date Extracted:	02-16-06
Preservative:	Cool	Date Analyzed:	02-17-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4 E.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

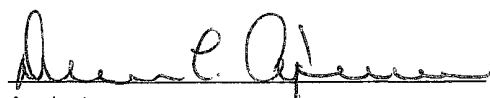
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	E. Wall (Composite)	Date Reported:	02-17-06
Laboratory Number:	36246	Date Sampled:	02-15-06
Chain of Custody No:	15556	Date Received:	02-15-06
Sample Matrix:	Soil	Date Extracted:	02-16-06
Preservative:	Cool	Date Analyzed:	02-17-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	141	0.2
Diesel Range (C10 - C28)	11.0	0.1
Total Petroleum Hydrocarbons	152	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4 E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-17-06 QA/QC	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-17-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.0056E+003	1.0066E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0006E+003	1.0026E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 36244 - 36246.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	W. Wall (Composite)	Date Reported:	02-17-06
Laboratory Number:	36245	Date Sampled:	02-15-06
Chain of Custody:	15556	Date Received:	02-15-06
Sample Matrix:	Soil	Date Analyzed:	02-17-06
Preservative:	Cool	Date Extracted:	02-16-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	2.0	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	55.4	2.2
o-Xylene	28.7	1.0
Total BTEX	86.1	

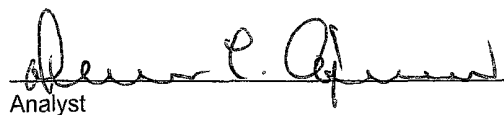
ND - Parameter not detected at the stated detection limit.

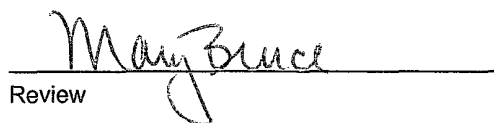
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Salazar 4E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	E. Wall (Composite)	Date Reported:	02-17-06
Laboratory Number:	36246	Date Sampled:	02-15-06
Chain of Custody:	15556	Date Received:	02-15-06
Sample Matrix:	Soil	Date Analyzed:	02-17-06
Preservative:	Cool	Date Extracted:	02-16-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	207	1.8
Toluene	22,580	1.7
Ethylbenzene	8,240	1.5
p,m-Xylene	57,460	2.2
o-Xylene	13,220	1.0
Total BTEX	101,710	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Salazar 4E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-17-BTEX QA/QC	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-17-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	3.3143E+006	3.3209E+006	0.2%	ND	0.2
Toluene	3.3143E+006	3.3209E+006	0.2%	ND	0.2
Ethylbenzene	1.3592E+007	1.3619E+007	0.2%	ND	0.2
p,m-Xylene	4.8154E+007	4.8251E+007	0.2%	ND	0.2
o-Xylene	3.1896E+007	3.1960E+007	0.2%	ND	0.1

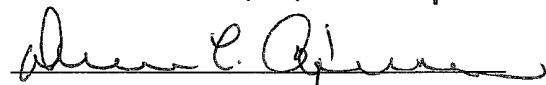
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	15.5	15.4	0.6%	0 - 30%	1.7
Ethylbenzene	5.4	5.4	0.0%	0 - 30%	1.5
p,m-Xylene	16.7	16.6	0.6%	0 - 30%	2.2
o-Xylene	6.4	6.4	0.0%	0 - 30%	1.0

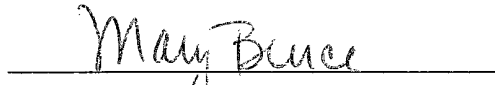
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	15.5	50.0	65.5	100.0%	46 - 148
Ethylbenzene	5.4	50.0	55.3	99.8%	32 - 160
p,m-Xylene	16.7	100	116	99.7%	46 - 148
o-Xylene	6.4	50.0	56.4	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 36244 - 36246.


Analyst


Review

9551

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

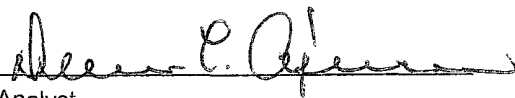
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	TH, 10' from Meter	Date Reported:	02-22-06
Laboratory Number:	36284	Date Sampled:	02-20-06
Chain of Custody No:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Extracted:	02-21-06
Preservative:	Cool	Date Analyzed:	02-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

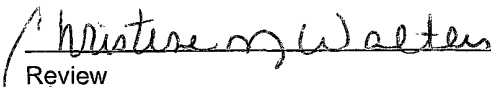
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4,020	0.2
Diesel Range (C10 - C28)	550	0.1
Total Petroleum Hydrocarbons	4,570	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	N. Wall Grab	Date Reported:	02-22-06
Laboratory Number:	36285	Date Sampled:	02-20-06
Chain of Custody No:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Extracted:	02-21-06
Preservative:	Cool	Date Analyzed:	02-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

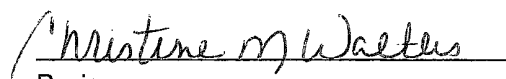
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	253	0.2
Diesel Range (C10 - C28)	13.5	0.1
Total Petroleum Hydrocarbons	267	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

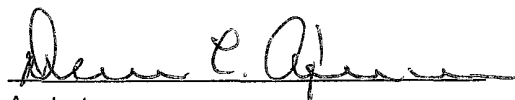
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	TH, 25' NE of Wellhead	Date Reported:	02-22-06
Laboratory Number:	36286	Date Sampled:	02-20-06
Chain of Custody No:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Extracted:	02-21-06
Preservative:	Cool	Date Analyzed:	02-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

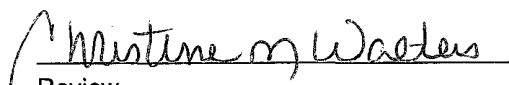
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

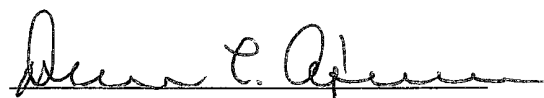
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	TH, 20' N of Wellhead	Date Reported:	02-22-06
Laboratory Number:	36287	Date Sampled:	02-20-06
Chain of Custody No:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Extracted:	02-21-06
Preservative:	Cool	Date Analyzed:	02-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

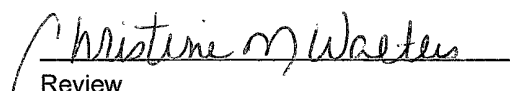
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Salazar 4E.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-22-06 QA/QC	Date Reported:	02-22-06
Laboratory Number:	36284	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-22-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.0031E+003	1.0042E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0043E+003	1.0063E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

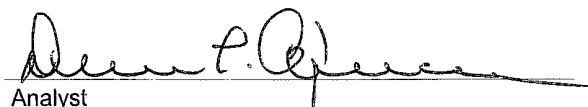
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	4,020	4,030	0.2%	0 - 30%
Diesel Range C10 - C28	550	548	0.3%	0 - 30%

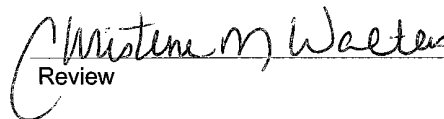
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	4,020	250	4,260	99.8%	75 - 125%
Diesel Range C10 - C28	550	250	799	99.9%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 36284 - 36289.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	TH, 10' from Meter	Date Reported:	02-22-06
Laboratory Number:	36284	Date Sampled:	02-20-06
Chain of Custody:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Analyzed:	02-22-06
Preservative:	Cool	Date Extracted:	02-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3,410	1.8
Toluene	8,480	1.7
Ethylbenzene	4,580	1.5
p,m-Xylene	10,040	2.2
o-Xylene	4,080	1.0
Total BTEX	30,590	

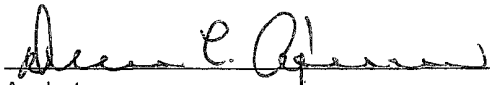
ND - Parameter not detected at the stated detection limit.

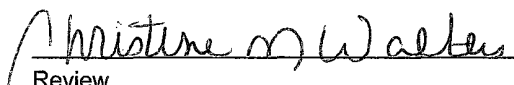
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Salazar 4E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	N. Wall, Grab	Date Reported:	02-22-06
Laboratory Number:	36285	Date Sampled:	02-20-06
Chain of Custody:	15567	Date Received:	02-20-06
Sample Matrix:	Soil	Date Analyzed:	02-22-06
Preservative:	Cool	Date Extracted:	02-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	934	1.8
Toluene	2,860	1.7
Ethylbenzene	1,360	1.5
p,m-Xylene	4,810	2.2
o-Xylene	1,310	1.0
Total BTEX	11,270	


ND - Parameter not detected at the stated detection limit.

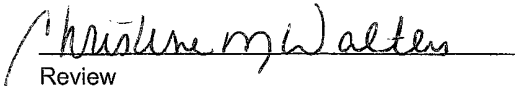
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Salazar 4E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-22-BTEX QA/QC	Date Reported:	02-22-06
Laboratory Number:	36284	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-22-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	3.4447E+007	3.4516E+007	0.2%	ND	0.2
Toluene	5.0748E+007	5.0850E+007	0.2%	ND	0.2
Ethylbenzene	4.7430E+007	4.7525E+007	0.2%	ND	0.2
p,m-Xylene	1.1635E+008	1.1659E+008	0.2%	ND	0.2
o-Xylene	6.6789E+007	6.6923E+007	0.2%	ND	0.1

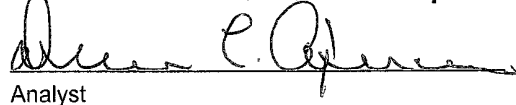
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	3,410	3,410	0.0%	0 - 30%	1.8
Toluene	8,480	8,480	0.0%	0 - 30%	1.7
Ethylbenzene	4,580	4,580	0.0%	0 - 30%	1.5
p,m-Xylene	10,040	10,040	0.0%	0 - 30%	2.2
o-Xylene	4,080	4,080	0.0%	0 - 30%	1.0

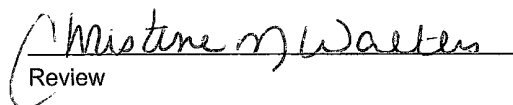
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	3,410	50.0	3,450	99.7%	39 - 150
Toluene	8,480	50.0	8,510	99.8%	46 - 148
Ethylbenzene	4,580	50.0	4,620	99.8%	32 - 160
p,m-Xylene	10,040	100	10,120	99.8%	46 - 148
o-Xylene	4,080	50.0	4,120	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 36284 - 36285, 36288 - 36289.


Analyst


Review

٧٥٥٧

san juan reproduction 578-129

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

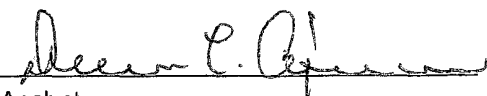
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	E. Wall Composite	Date Reported:	03-07-06
Laboratory Number:	36390	Date Sampled:	03-06-06
Chain of Custody No:	15648	Date Received:	03-06-06
Sample Matrix:	Soil	Date Extracted:	03-06-06
Preservative:	Cool	Date Analyzed:	03-07-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

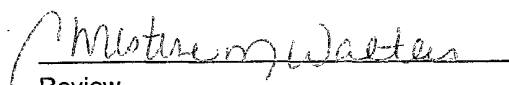
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Lybrook.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

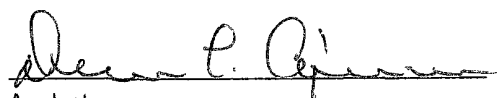
Client:	Kimbell Oil	Project #:	06011-001
Sample ID:	N. Wall Comp.	Date Reported:	03-07-06
Laboratory Number:	36391	Date Sampled:	03-06-06
Chain of Custody No:	15648	Date Received:	03-06-06
Sample Matrix:	Soil	Date Extracted:	03-06-06
Preservative:	Cool	Date Analyzed:	03-07-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

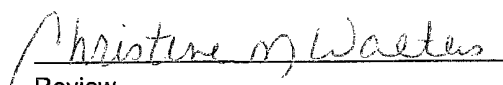
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Lybrook.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-07-06 QA/QC	Date Reported:	03-07-06
Laboratory Number:	36386	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-07-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.0011E+003	1.0021E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0067E+003	1.0087E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

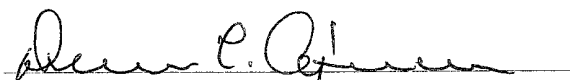
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	5.1	5.1	0.0%	0 - 30%
Diesel Range C10 - C28	97.7	99.2	1.5%	0 - 30%

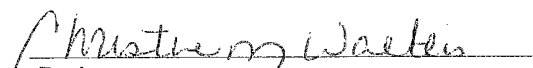
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	5.1	250	255	99.9%	75 - 125%
Diesel Range C10 - C28	97.7	250	347	99.9%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 36386 - 36391.


Analyst


Review

١٥٤٨

san juan reproduction 578-129

Section 2

418.1 Field TPH Analysis

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Kimbell Oil Company of Texas	Project #:	06011-001
Sample No.:	1	Date Reported:	2/1/2006
Sample ID:	Grab, 22' BGS	Date Sampled:	2/1/2006
Sample Matrix:	Soil	Date Analyzed:	2/1/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

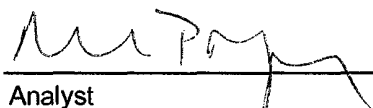
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	4,930	50.0
------------------------------	-------	------

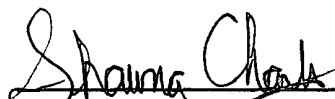
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Salazar No. 4E



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Kimbell Oil Company of TX	Project #:	06011-001
Sample ID:	QA/QC	Date Reported:	2/1/2006
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	1/24/2005
Preservative:	N/A	Date Extracted:	1/24/2005
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	05-22-04	1/24/2005	1,735	1,639	5.5%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

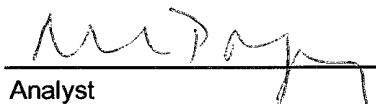
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,471	2,352	4.8%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	2,471	2,000	5,030	112.5%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Salazar No. 4E



Analyst



Review

Section 3

Site Photography

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**

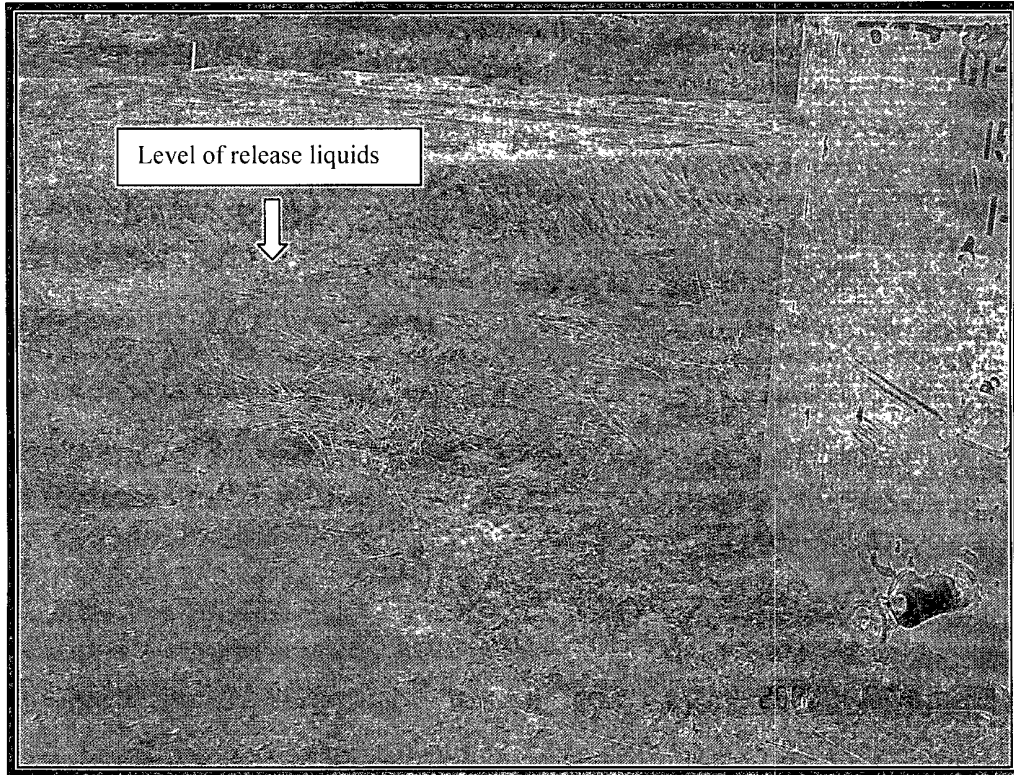


Photo 1: View of the initial release and level visible on inside of berm

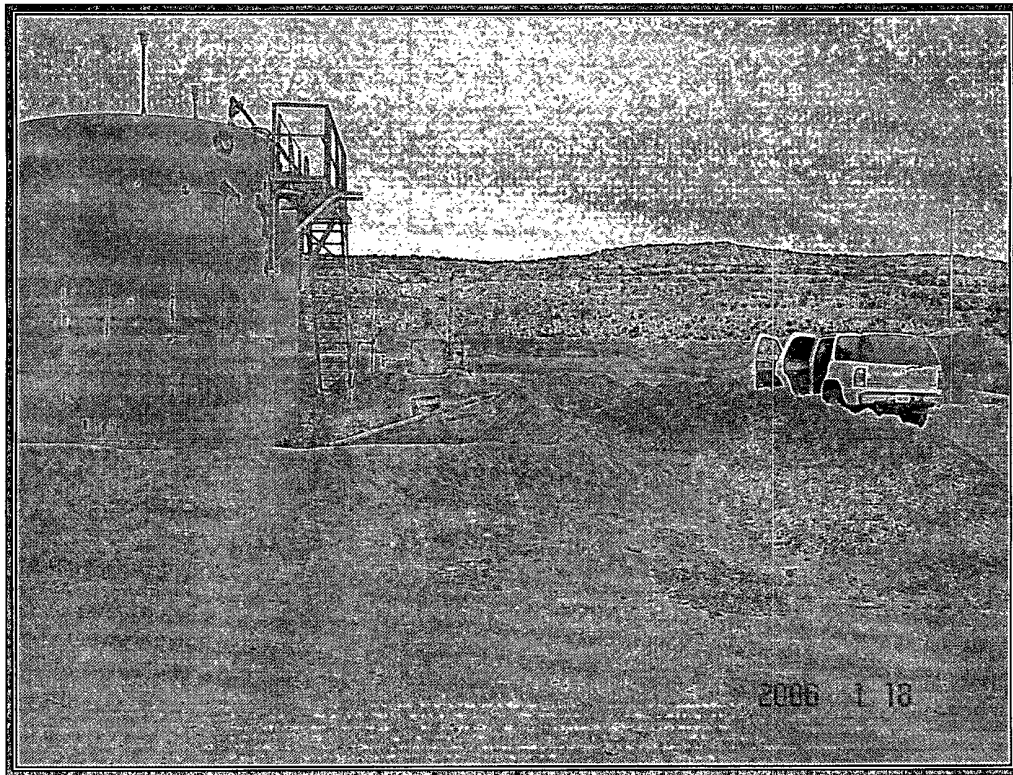


Photo 2: A trench dug at site before Envirotech's arrival

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**

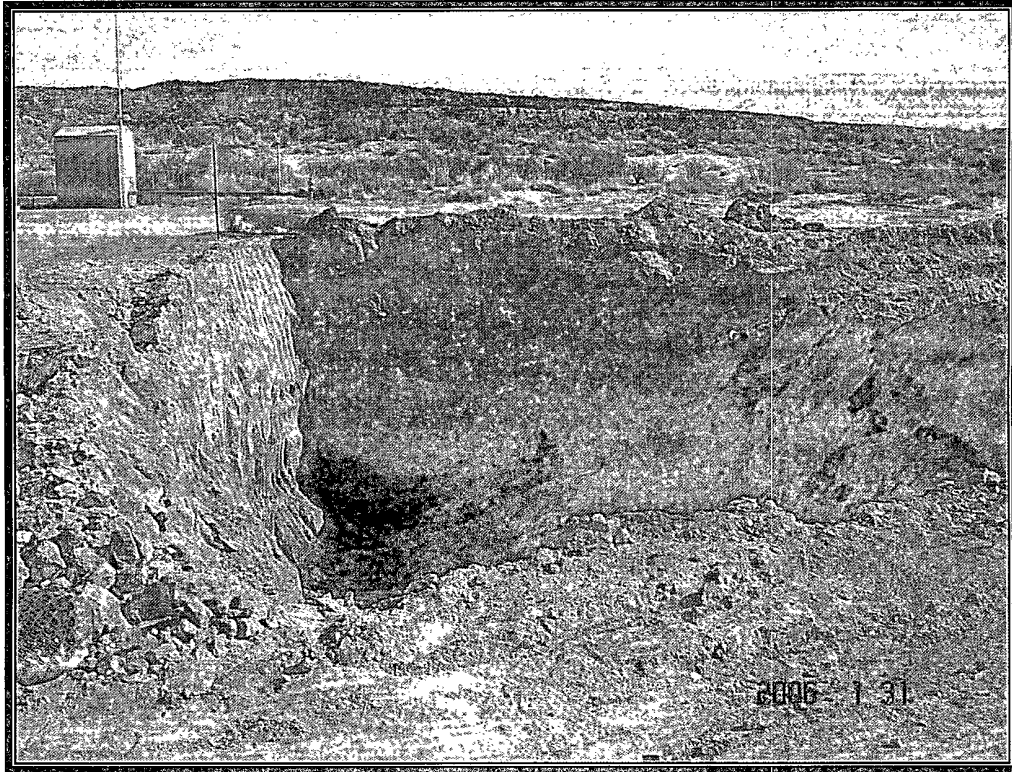


Photo 3: Initial excavation, visible contamination at 10' BGS

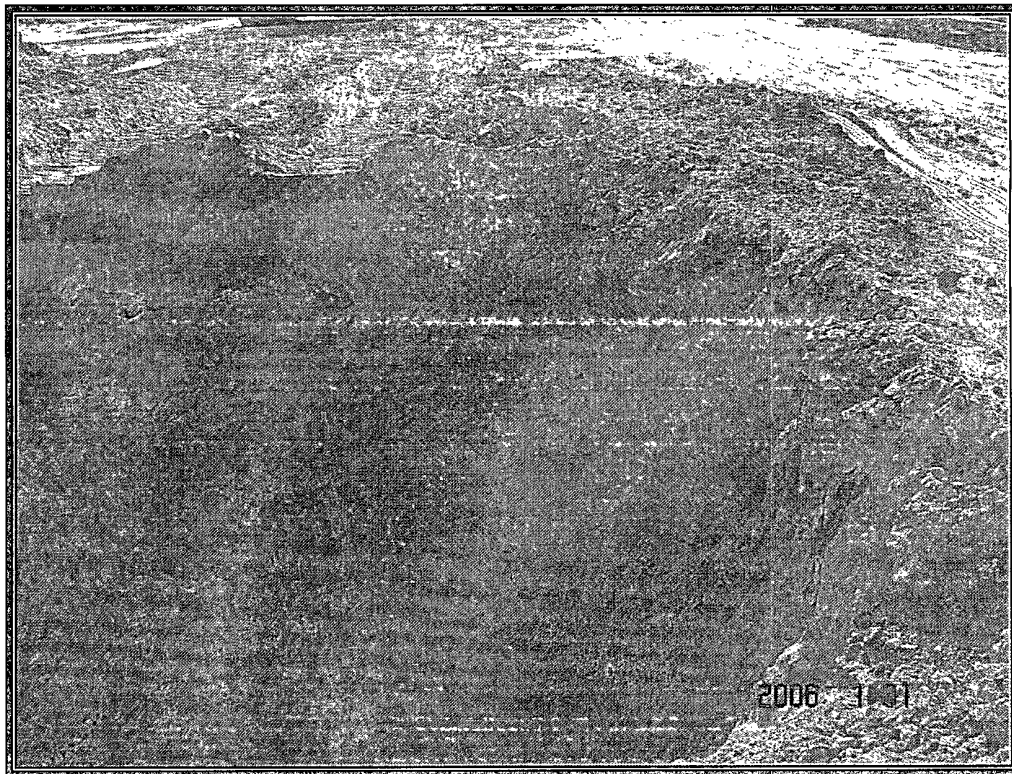


Photo 4: Penetration of condensate release visible

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**



Photo 5: Initial benchdown on southwestern side of excavation

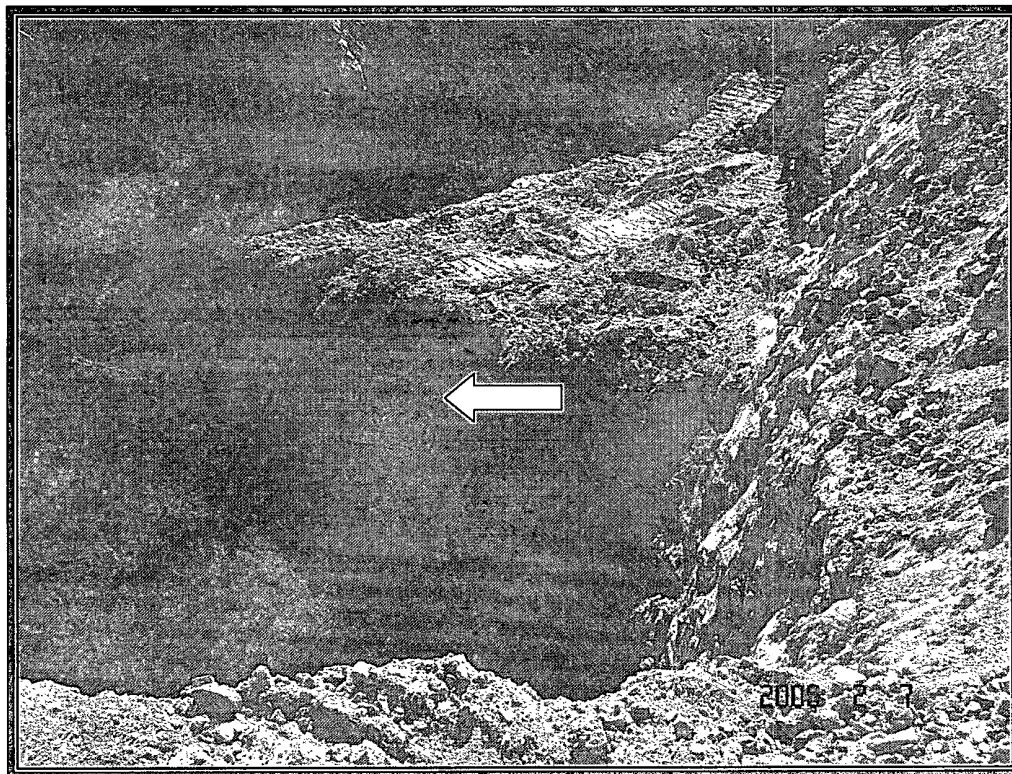


Photo 6: Indentation in middle of picture shows sample location of south wall

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**

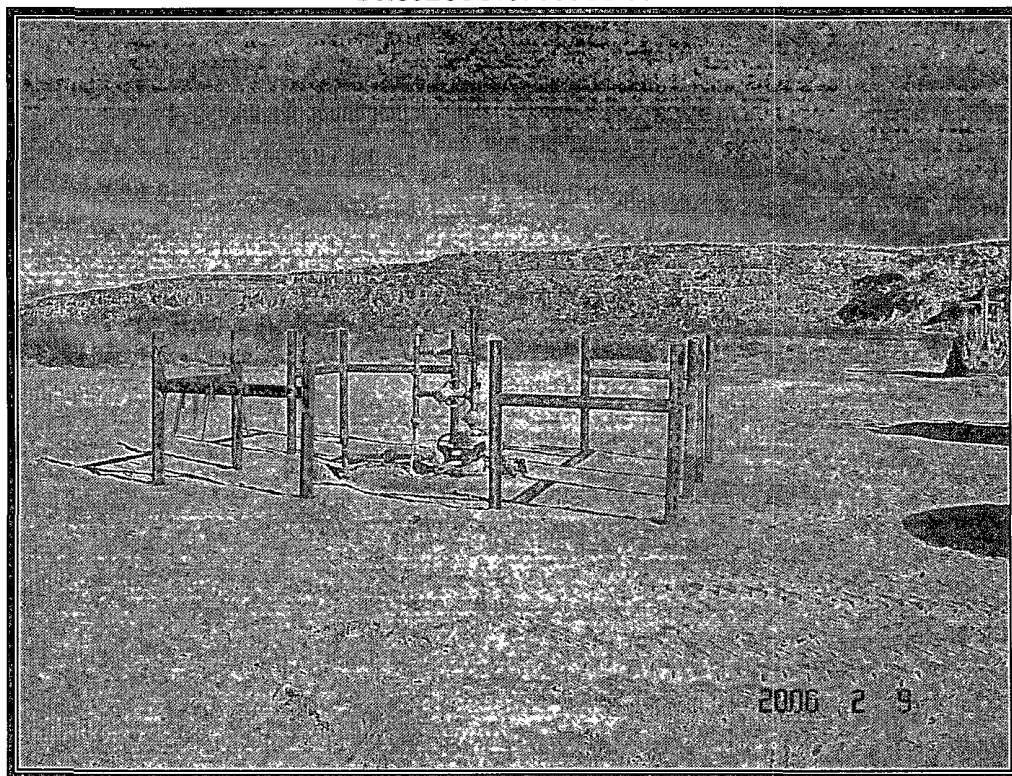


Photo 7: Barrier placed to protect wellhead as requested by Mr. Denny Foust, NMOCD

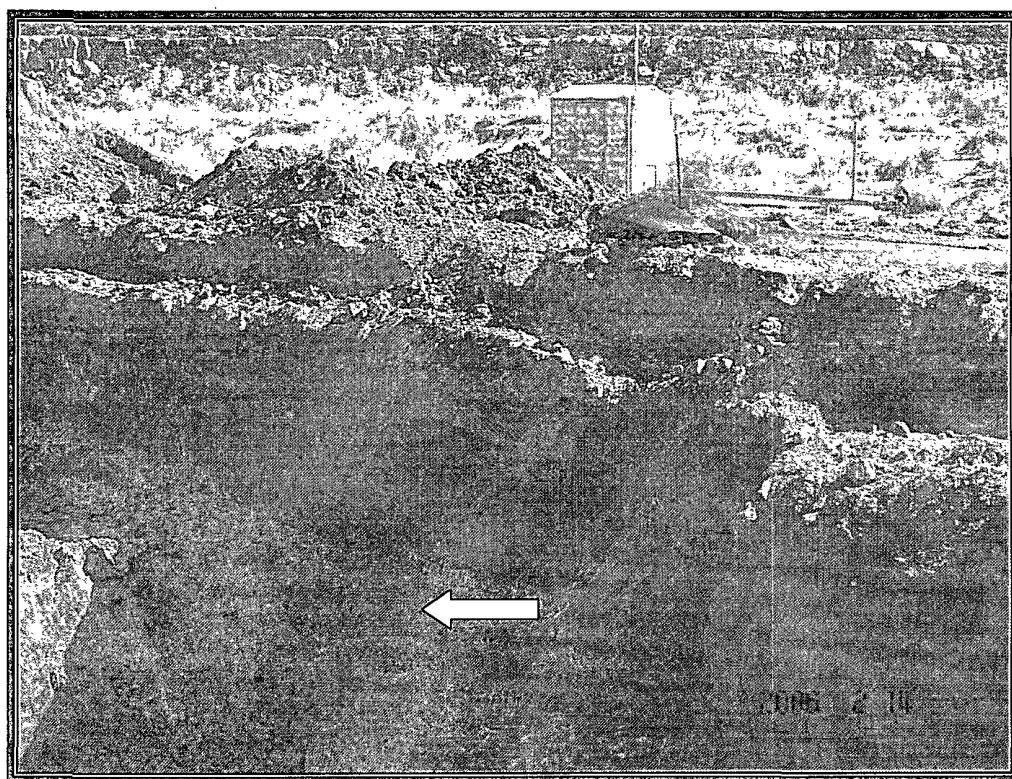


Photo 8: East wall area, approximate area when BTEX was 101,710 ppb

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**

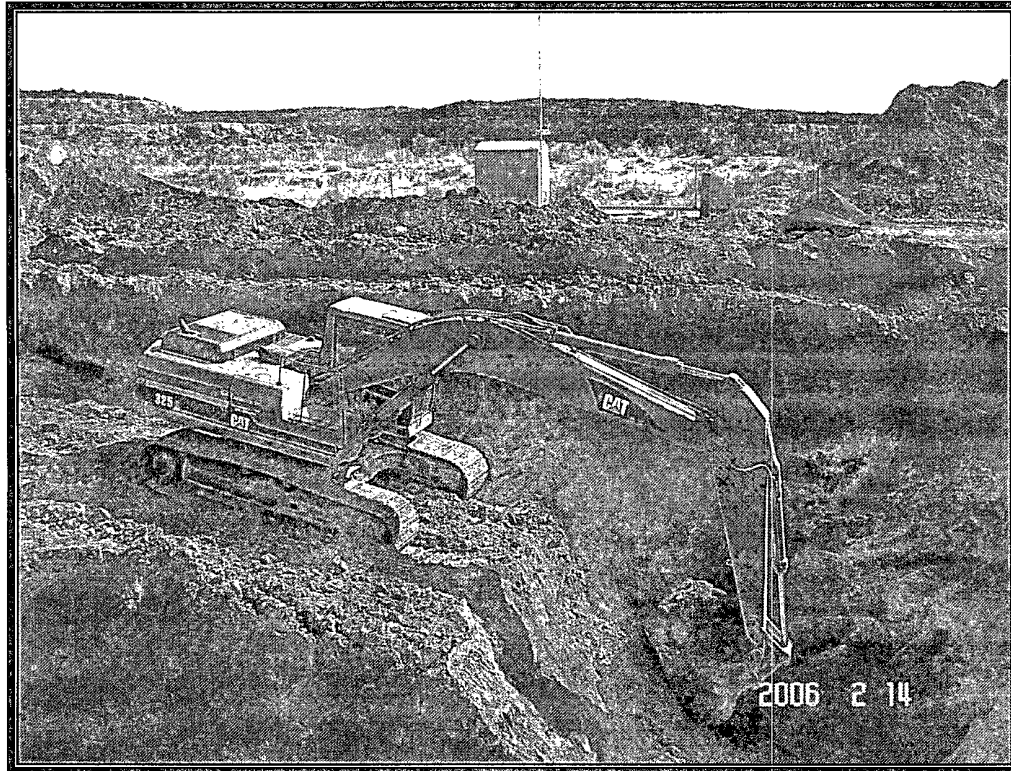


Photo 9: Note, a Cat 325B Excavator benched down to reach depth of contamination

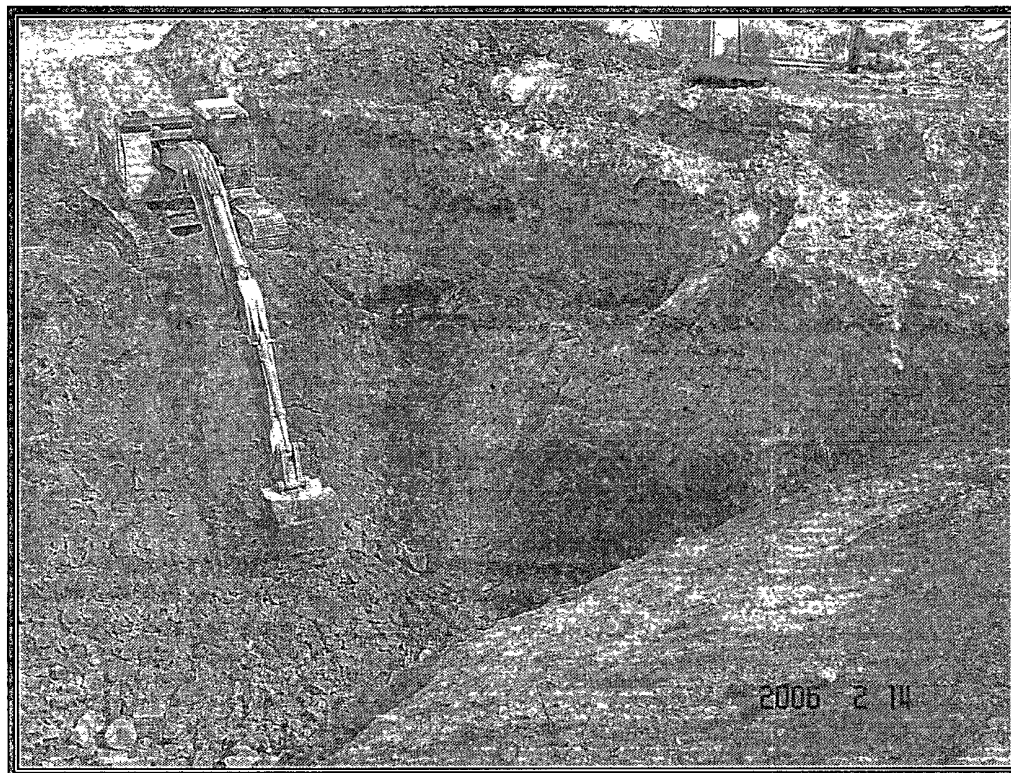


Photo 10: Cat 325B Excavator with boom near full extension, bottom is 28' BGS

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT No. 06011-001**

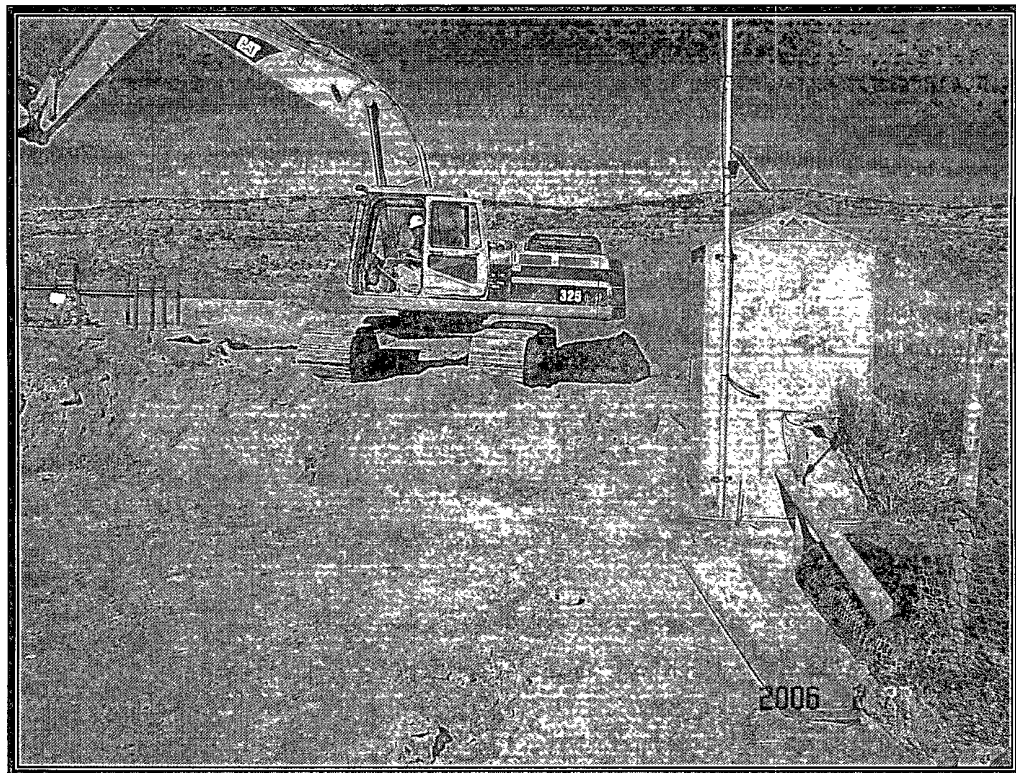


Photo 11: Note proximity of meter house to excavation

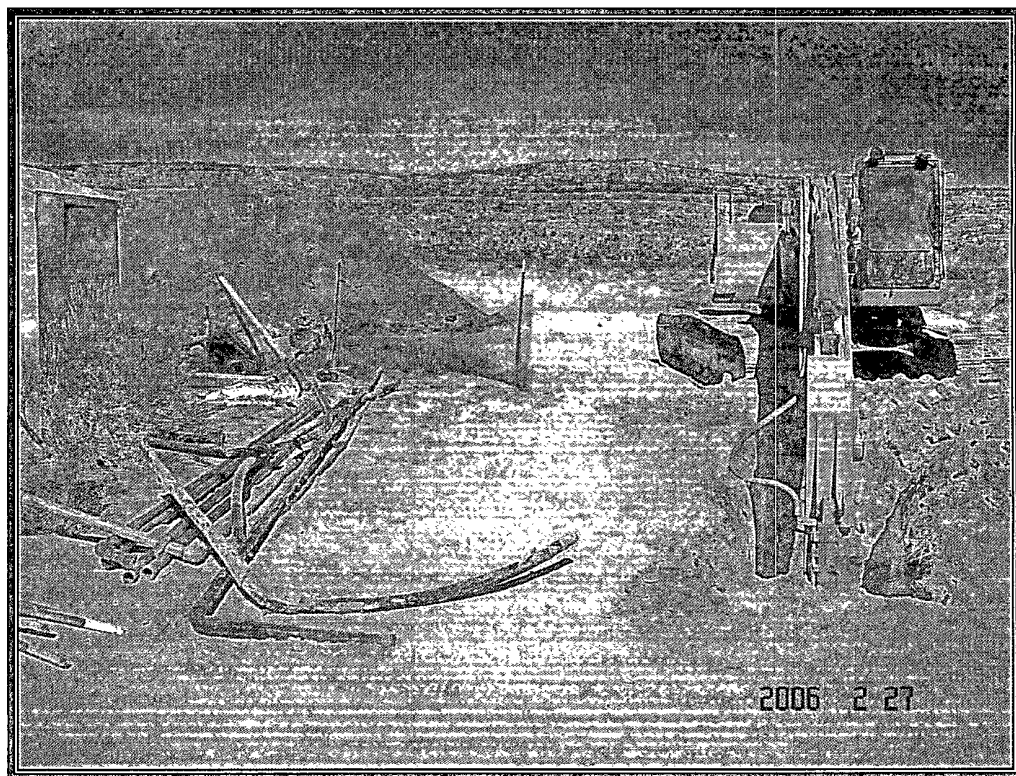


Photo 12: Test Hole (TH-9), approximately 17' east of meter house, at 20' depth; OVM 43 ppm

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR No. 4E
PROJECT No. 06011-001**



Photo 13: East wall, excavated to below NMOCD guidelines

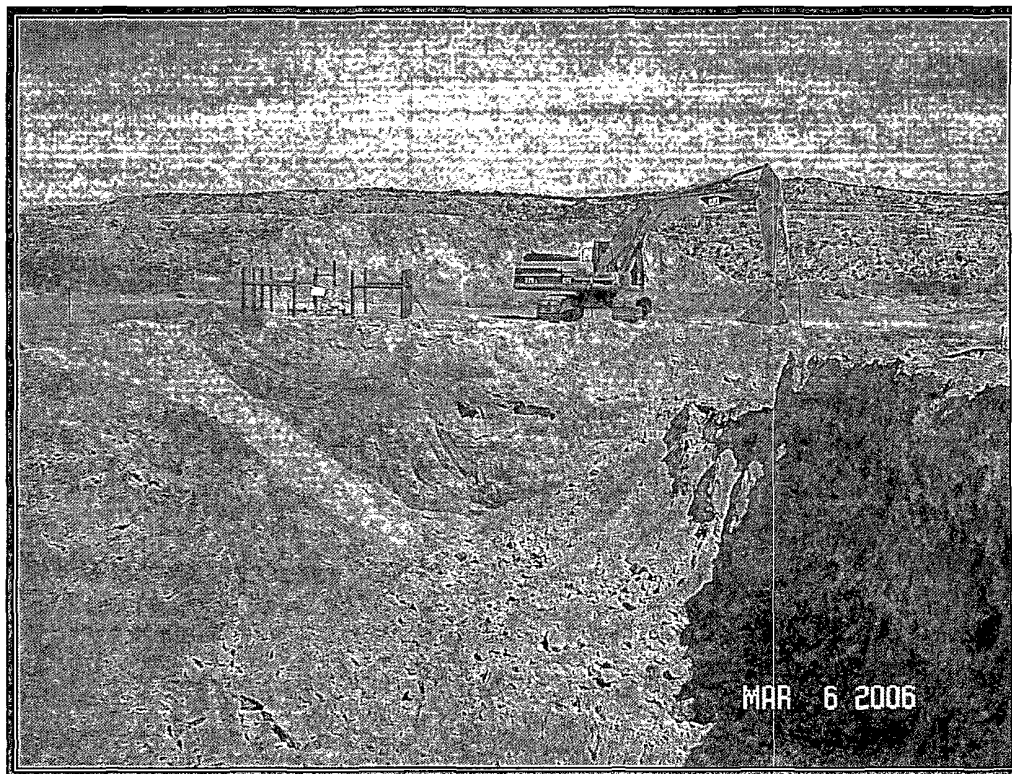


Photo 14: North wall, extent of excavation is below NMOCD guidelines

**KIMBELL OIL COMPANY OF TEXAS
SPILL CLEAN-UP AT THE SALAZAR NO. 4E
PROJECT NO. 06011-001**

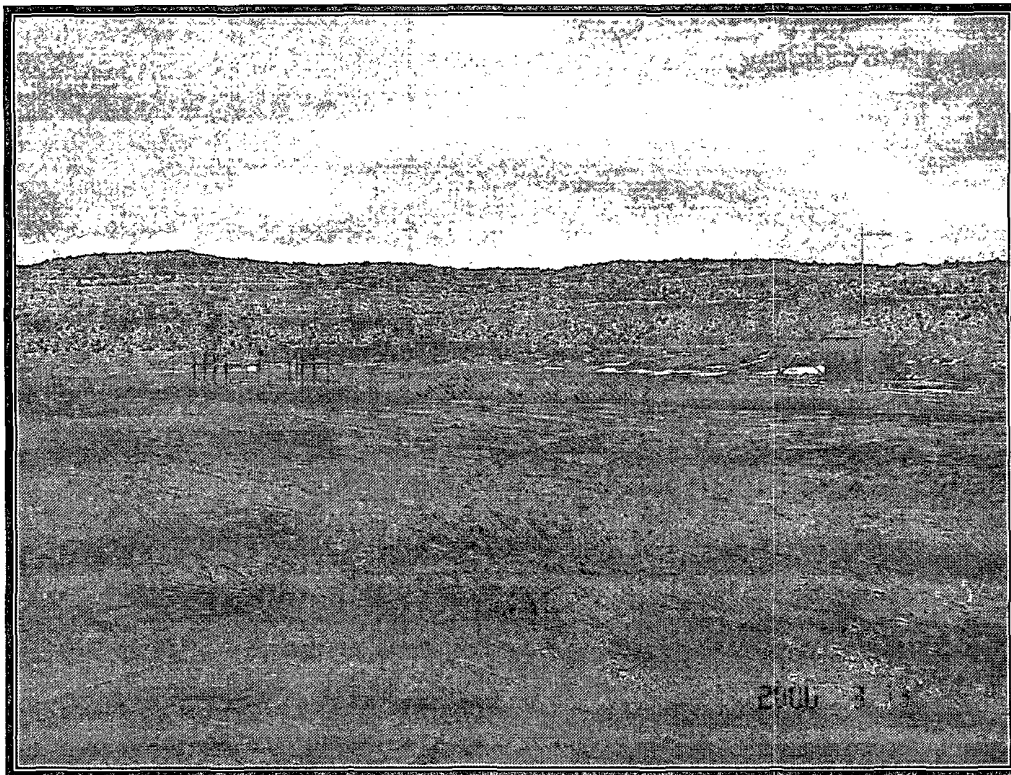


Photo 15: Excavation returned to pre-incident grade and conditions

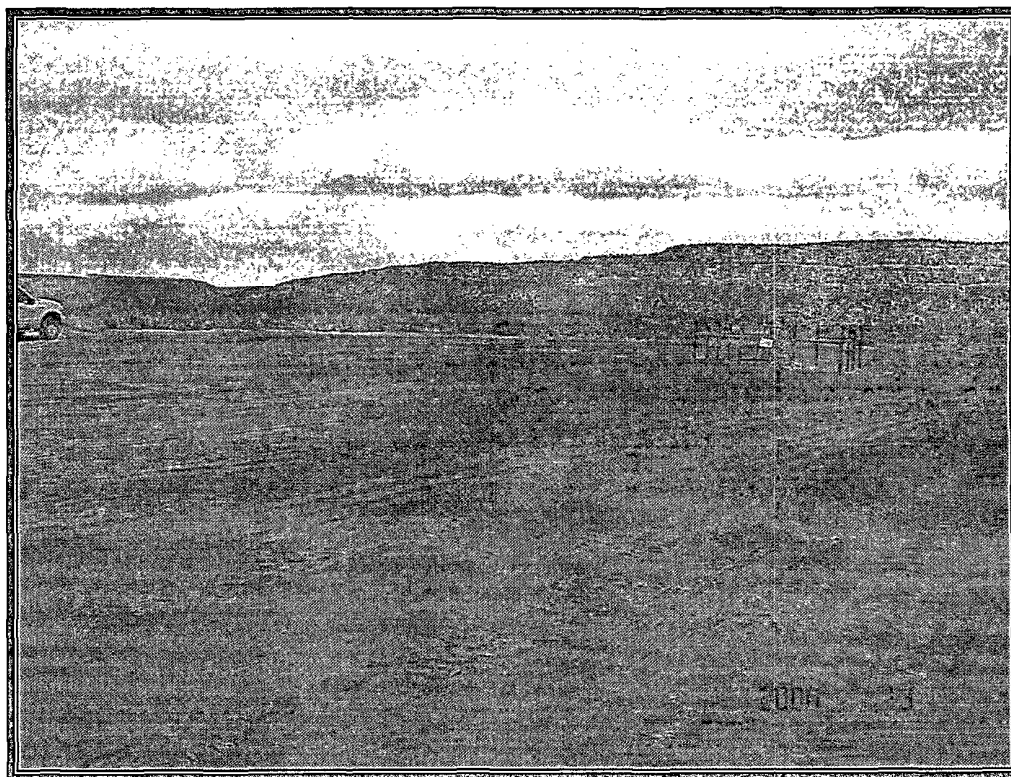


Photo 16: Excavation returned to pre-incident grade and conditions

Section 4

Secondary Containment Calculations

Section 4
Containment Calculation - Salazar No. 4E Oil and Gas Production Well

Secondary Containment Calculations for Diked Storage Areas

Note: Two (2) 300 bbl tanks on site, the tanks are not interconnected but controlled by valves.
 Total Required Volume Calculated from One (1) 300 bbl Crude Oil Tank

Tank Battery

Dike Specifications (feet)		Total Required Volume (bbl):	300
		Tank Radius (feet):	6
Length	46	Number of Tanks:	2
Width	35		
Height of Berm	1.5		
Base of Tank Area = $3.14(r^2)$			113.1 ft ²

Sufficient Freeboard:

100 yr.; 24 Hour Storm Event = 2" (estimate)

Displacement from 100 year Storm = (Berm Length x Berm Width x 2 inches) = 268.3 ft³

1) Total Dike Volume = Length x Width x Height

$$46 \text{ feet} \times 35 \text{ feet} \times 1.5 \text{ feet} = 2,415 \text{ ft}^3$$

2) Displacement volume due to tanks = (Number of Tanks - 1) x Tank Base Area x Berm Height

NOTE: Displacement volume due to tanks = 0 ft³ if only one tank is inside containment, due to hydrostatic equilibrium

$$1 \text{ tank(s)} \times 113.1 \text{ ft}^2 \times 1.5 \text{ ft} = 169.6 \text{ ft}^3$$

3) Available Dike Volume = (Total Dike Volume) - (Displacement Volume due to tanks) - (Displacement from 100yr Storm)

$$= 2,415 \text{ ft}^3 - 169.6 \text{ ft}^3 - 268.3 \text{ ft}^3$$

$$= 1,977.0 \text{ ft}^3$$

4) Available dike volume of 352 bbl 1977 ft³ 14788 gallons
 is more than the required containment volume of 300 bbl 1684 ft³ 12600 gallons