

~~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

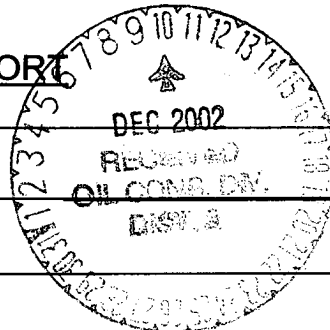
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
defined
extent of
plume*

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT



Operator: Central Resources Telephone: _____

Address: 30-039-06552

Facility Or: Canado #2, Meter 70555

Well Name _____

Location: Unit or Qtr/Qtr Sec P Sec 9 T 26 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

Land Type: BLM X, State _____, Fee _____ Other _____

Pit Location: Pit dimensions: length 26', width 21', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 97'

Direction from reference: 40 Degrees X East North _____
of
_____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>20</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No (0 points) <u>0</u>
domestic water source, or; less than	
1000 feet from all other water sources.)	

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 08/25/94 Date completed: 08/25/94

Remediation Method: Excavation _____ Approx. cubic yards _____

Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____

Other Backfill Pit Without Excavation

Remediation Location: Onsite N/A Offsite N/A

(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: EPNG lines marked. Soil gray. Strong hydrocarbon odor.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Four walls and center of pit composite

Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample depth 12'

Sample Date 08/25/94 Sample time 13:00

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 237

TPH 7.57 3,757

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

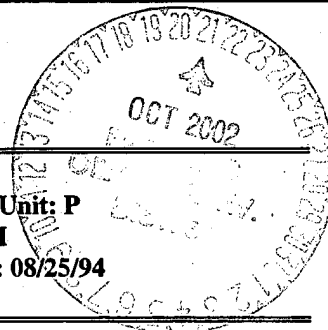
Date 1/8/03
Signature Scott T. Pope

Printed Name Scott T. Pope
and Title 793 R Senior Env. Scientist



PIT CLOSURE REQUEST

Candado #2
Meter/Line ID - 70555



SITE DETAILS

Legals - Twn: 26N

Rng: 07

Sec: 9

Unit: P

NMOCD Hazard Ranking: 20

Land Type: BLM

Operator: Central Resources

Pit Closure Date: 08/25/94

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 237 ppm; laboratory analysis indicated a TPH concentration of 757 mg/kg. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 36 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 35-36 ft bgs. Headspace analysis indicated an organic vapor content of 65 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, total BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 36 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase 2 soil boring at 36 ft bgs were non-detect.



PIT CLOSURE REQUEST

- Residual hydrocarbons, if any, in the soil will degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form
Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase 2 Soil Boring Log
Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70-555 Location: Candado #2
 Operator #: 0373 Operator Name: Central Resource P/L District: Ballard
 Coordinates: Letter: P Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 7/1/94 Area: 07 Run: 62

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside
Outside

Land Type:

BLM ☒ (1)
 State ☐ (2)
 Fee ☐ (3)
 Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)
 50 Ft to 99 Ft (10 points) ☐ (2)
 Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area :

Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☒ (1)
 200 Ft to 1000 Ft (10 points) ☐ (2)
 Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body Large Wash

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 40 POINTS

REMARKS

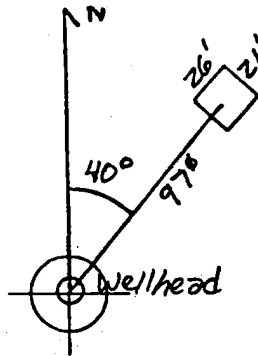
Remarks : Redline Book - Inside Vulnerable Zone, Tape - Outside
One pit, pit is dry, will close one pit.

Push In

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 40° Footage from Wellhead 97'
b) Length : 26' Width : 21' Depth : 3'



REMARKS

Remarks :

Pictures @ 1256 (1-4) Roll 1Dump Truck

Completed By:

Mark Kelly

Signature

7/1/94

Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70555 Location: Candado #2
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: P Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 12/19/97 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

Land Type:

☐ (1)

☒ (2)

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

Depth to Groundwater

Less Than 50 Feet (20 points)

☒ (1)

50 Ft to 99 Ft (10 points)

☐ (2)

Greater Than 100 Ft (0 points)

☐ (3)

Wellhead Protection Area

Is it less than 1000 ft from wells, springs or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source?

☐ (1) YES (20 points)

☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points)

☐ (1)

200 Ft to 1000 Ft (10 points)

☐ (2)

Greater Than 1000 Ft (0 points)

☒ (3)

Name of Surface Water Body _____

(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream

☐ (1) < 100' (Navajo Pits Only)

☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. 2 sites in Unit P. Assume site is Inside based on previous Field assessment. Depth to GW measured to center of Largo Canyon.



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 288	946013
MTR CODE SITE NAME:	70555	N/A
SAMPLE DATE TIME (Hrs):	8/25/94	1300
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-30-94	8/30/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	757	MG/KG			2.16	28
HEADSPACE PID	237	PPM				
PERCENT SOLIDS	88.2	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/4/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70555 Location: Candado #2
 Coordinates: Letter: P Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Date Started : 8-25-94 Area: 07 Run: 62

FIELD OBSERVATIONS

Sample Number(s): MK 288
 Sample Depth: 12' Feet
 Final PID Reading 237 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☐ (1) Approx. Cubic Yards _____
 Onsite Bioremediation ☐ (2) _____
 Backfill Pit Without Excavation ☒ (3) _____
 Soil Disposition:
 Envirotech ☐ (1) ☐ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 8-25-94 Pit Closed By: BEI

REMARKS

Remarks : EPUG lines marked soil gray strong Hydrocarbon odor

Signature of Specialist: Morgan Killian



Page _____ of _____

FM-08.0565 A (Rev 05-94)

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

1000 Monroe Road
Birmingham, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # NA
Page 1 of 1

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location CANDADO #2 70-555

Elevation _____
Borehole Location LTR: P S: 9 T: 26 R: 7
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 8/24/98
Date Completed 8/24/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ BH S/HS			Drilling Conditions & Blow Counts
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'			0	0		
15	1	15-17	6"	DK GR silty SAND, FINE SAND, VERY LOOSE SAND, dry	SM		0	80	$\frac{2094}{7249}$	1037 hrs
20	2	20-22	12"	DK GR SAND CLAY, FINE SAND, soft, low plasticity, dry	CL		0	24	$\frac{1007}{7334}$	1046 hrs
25	3	25-26	6"	lt. BR SILTSTONE MED CEMENTED, dry			1	143	$\frac{1641}{6242}$	1057 hrs
30	4	30-31	6"	LT BR silty SAND, FINE SAND, soft, loose SAND, dry	Sm		0	157	$\frac{0}{15}$	1127 hrs
35	5	35-36	6"	DK BR SILTSTONE, LOOSE CEMENTED dry			0	1946	$\frac{11}{65}$	1143 hrs
40				TOB 36'						HARD drilling

Comments:

HAB 9 35-36' COLLECTED & SENT TO LAB FOR TPH, BTEX
GW NOT ENCOUNTERED BH GROUTED TO SURFACE

Geologist Signature

Holly Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB9	980587
MTR CODE SITE NAME:	70555	Candado #2
SAMPLE DATE TIME (Hrs):	8/24/98	1143
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/28/98	8/28/98
DATE OF BTEX EXT. ANAL.:	8/27/98	8/27/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 35-36'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	65	PPM				
PERCENT SOLIDS	86.0	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.7 % for this sample All QA/QC was acceptable.
ative:

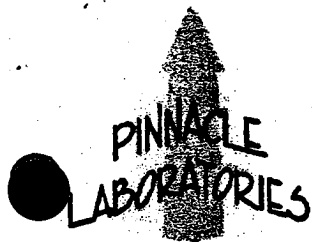
DF = Dilution Factor Used

Approved By:

John Fawcett

Date:

9/14/98



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
 CLIENT : EL PASO FIELD SERVICES
 PROJECT # : (none)
 PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 808083

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980586	NON-AQ	8/24/98	8/28/98	8/28/98	1
02	980587	NON-AQ	8/24/98	8/28/98	8/28/98	1
03	980588	NON-AQ	8/24/98	8/28/98	8/28/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0

CULATED SUM:

SURROGATE:

O-TERPHENYL (%)

SURROGATE LIMITS

(66 - 151)

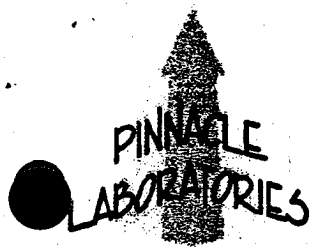
95

105

108

CHEMIST NOTES:

N/A

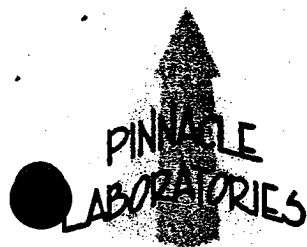


GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 808083
BLANK I.D.	: 082898	DATE EXTRACTED	: 8/28/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 8/28/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0
SURROGATE:		
TERPHENYL (%)		130
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A



GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 808083
BLANK I.D.	: 083098	DATE EXTRACTED	: 8/30/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 8/30/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/KG	< 10
HYDROCARBON RANGE		< 5.0
HYDROCARBONS QUANTITATED USING		< 5.0

SURROGATE:
BIPHENYL (%) 88
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY

PROJECT MANAGER: John Lambdin

COMPANY: El Paso Field Services

ADDRESS: 770 W. Navajo

Farmington, NM 87401

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: Above

COMPANY:

ADDRESS:

Petroleum Hydrocarbons (418.1) TRPH

(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge & Trap

8021 (BTEX)/8015 (Gasoline)

8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE

8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8260 (TCL) Volatile Organics

8260 (Full) Volatile Organics

8260 (CUST) Volatile Organics

8260 (Landfill) Volatile Organics

Pesticides /PCB (608/8081)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (625/8270)

Polynuclear Aromatics (610/8310)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

980586	8/24/98	0940	Soil
980587	8/24/98	1143	Soil
980588	8/24/98	1421	Soil

PROJ NO:

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK(NORMAL) ☒

PROJ NAME: Phase II Drilling

P.O. NO:

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

SHIPPED VIA: FedEx

COMMENTS: FIXED FEE ☐

Signature: Mark Rogers

Time: 0810

Printed Name: Mark Rogers

Date: 8/27/98

Company: EPFS

Signature:

Time:

Printed Name:

Date:

Company:

Signature:

Time:

Printed Name:

Date:

Company:

BTEX SOIL SAMPLE WORKSHEET

File	:	980587	Date Printed	:	8/31/98
Soil Mass (g)	:	5.08	Multiplier (L/g)	:	0.00098
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.19685

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.492
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.492
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.492
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.984
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.492
	Total xylenes (mg/Kg):	#VALUE!	1.476
	Total BTEX (mg/Kg):	#VALUE!	



Thore H Dilling

CHAIN OF CUSTODY RECORD

10-1-98 Anal.
10-1-98-Chem.

10-1-98 App.

PROJECT NAME Pit Closure Project				DATE: 8/24/98		FIELD ID						
LAB ID	DATE	TIME	MATRIX	TOTAL NUMBERS OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS						
				TPH	BTEX	EPA 8020	LAB PID	TPH	BD15	FIELD	FIELD	SEQUENCE #
980587	8/24/98	1143	soil	1	VG	✓	✓	✓	✓	✓	✓	9
CANADO #2 70-555 35-36'												
REMARKS												
2												
CONTRACT LABORATORY P. O. NUMBER												

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Holly Buckley	8/24/98 1620hrs	[Signature]	8/26/98 09:15
RELINQUISHED BY: (Signature)	DATE/TIME	RELINQUISHED BY: (Signature)	DATE/TIME
[Signature]		[Signature]	8/26/98 0916

REQUESTED TURNAROUND TIME:	ROUTINE	RUSH
	<input type="checkbox"/>	<input type="checkbox"/>
CARRIER CO.		

SAMPLE RECEIPT REMARKS	RESULTS & INVOICES TO:
COO/ + Sitar 31° F	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499

BILL NO.:	CHARGE CODE	505-599-2144	FAX: 505-599-2261