

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
000 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 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: KIMBELL OIL COMPANY OF TEXAS Telephone: (817) 335-2591
Address: 500 THROCKMORTON, SUITE 3000, FORT WORTH, TEXAS 76102
Facility Or: CORAL # 2
Well Name
Location: Unit or Qtr/Qtr Sec M sec 27 T 25 N R 6 W County RIO ARriba
Pit Type: Separator Dehydrator Other WATER PROD., TANK DRAIN, BLOW
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 60', width 50', depth 15'
(Attach diagram) Denny's Reference: wellhead X, other
DEPUTY OIL & GAS INSPECTOR
Footage from reference: 60
FEB 06 1998
Direction from reference: 15 Degrees East North
of
X West South X

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance To Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 11-27-95 Date Completed: 11-30-95

Remediation Method: Excavation X Approx. cubic yards 1700
(Check all appropriate sections) Landfarmed Insitu Bioremediation

Other STOCKPILE

Remediation Location: Onsite X Offsite
(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Excavation OF CONTAMINATED SOILS

Ground Water Encountered: No Yes X Depth ~ 15'

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

Sample location see Attached Documents

Sample depth 5-15'

Sample date 11-30-95 Sample time

Sample Results

Benzene(ppm)

Total BTEX(ppm)

Field headspace(ppm) 0-86 PPM

TPH 20-36 PPM

Ground Water Sample: Yes X No (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 JAN 2, 1996

SIGNATURE Jeffrey C. Blagg PRINTED NAME AND TITLE JEFFREY C. BLAGG - AGENT

TRAVEL NOTES: CALLOUT: 11-30-95 ONSITE: 11-30-95 1000

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Kimbell Oil	Project #:	
Sample ID:	East Side @ 5-15' Comp.	Date Analyzed:	11-30-95
Project Location:	Coral #2	Date Reported:	11-30-95
Laboratory Number:	TPH-1639	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	36	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	13,700	12,100	12

*Administrative Acceptance limits set at 30%.

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

Comments: Separator/Dehydrator/Tank Pit

R. E. Ornelas
Analyst

Nelson V. Fily
Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

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**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Kimbell Oil	Project #:	
Sample ID:	North Side @ 5-15' Comp.	Date Analyzed:	11-30-95
Project Location:	Coral #2	Date Reported:	11-30-95
Laboratory Number:	TPH-1640	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	28	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	13,700	12,100	12

*Administrative Acceptance limits set at 30%.

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

Comments: Separator/Dehydrator/Tank Pit

R. E. O'Neil
Analyst

Nelson Velez
Review

BLAGG ENGINEERING, INC.

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**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Kimbell Oil	Project #:	
Sample ID:	West Side @ 5-15' Comp.	Date Analyzed:	11-30-95
Project Location:	Coral #2	Date Reported:	11-30-95
Laboratory Number:	TPH-1641	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	20	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	13,700	12,100	12

*Administrative Acceptance limits set at 30%.

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

Comments: Separator/Dehydrator/Tank Pit

R. E. O'Neil
Analyst

Melvin V. Felt
Review

BLAGG ENGINEERING, INC.
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**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Kimbell Oil	Project #:	
Sample ID:	South Side @ 5-15' Comp.	Date Analyzed:	11-30-95
Project Location:	Coral #2	Date Reported:	11-30-95
Laboratory Number:	TPH-1642	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	22	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	13,700	12,100	12

*Administrative Acceptance limits set at 30%.

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

Comments: Separator/Dehydrator/Tank Pit

R. E. O'Neil
Analyst

Nelson Vely
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg Engineering	Project #:	04034
Sample ID:	Pit @ 16'	Date Reported:	11-28-95
Chain of Custody:	4547	Date Sampled:	11-27-95
Laboratory Number:	9691	Date Received:	11-27-95
Sample Matrix:	Water	Date Analyzed:	11-27-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.4
Toluene	0.7	1	0.5
Ethylbenzene	ND	1	0.5
p,m-Xylene	1.9	1	0.4
o-Xylene	0.5	1	0.4
Total BTEX	3.1		

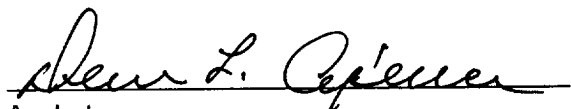
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	99 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Coral #2.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg Engineering	Project #:	04034
Sample ID:	Pit @ 16'	Date Reported:	11-30-95
Laboratory Number:	9691	Date Sampled:	11-27-95
Chain of Custody:	4547	Date Received:	11-27-95
Sample Matrix:	Water	Date Analyzed:	11-30-95
Preservative:	Cool	Analysis Needed:	Trace metals
Condition:	Cool & Intact		

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	0.003	0.0001
Barium	ND	0.01
Cadmium	ND	0.0001
Chromium	ND	0.0001
Lead	0.226	0.0001
Mercury	ND	0.0001
Selenium	ND	0.0001
Silver	ND	0.01

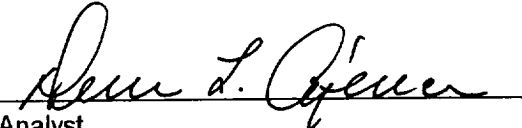
*Unfiltered
Total Concentration*

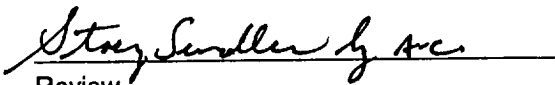
ND - Parameter not detected at the stated detection limit.

References: Method 3050, *Total metals* Acid Digestion of Sediments, Sludges, and Soils for total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760 Analysis of Metals by GFAA and FLAA, SW-846, USEPA.

Comments: **Coral #2**


Analyst


Review

Client:	Blagg Engineering	Project #:	04034
Sample ID:	Pit @ 16'	Date Reported:	11-30-95
Laboratory Number:	9691	Date Sampled:	11-27-95
Chain of custody:	4547	Date Received:	11-27-95
Sample Matrix:	Water	Date Analyzed:	11-30-95
Preservative:	Cool	Date Concentrated:	11-29-95
Condition:	Cool & Intact	Analysis Requested:	8100

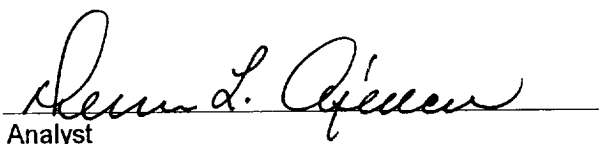
Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.4
Phenanthrene	ND	0.5
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Indeno[1,2,3-cd] pyrene	ND	0.4
Benzo[a]anthracene	ND	0.2
Chrysene	ND	0.7
Benzo(b)fluoranthene	ND	0.8
Benzo[k]fluoranthene	ND	0.5
Benzo(a)pyrene	ND	0.2
Dibenzo[a,h]anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

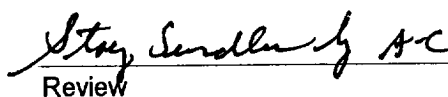
ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronaphthalene	100%

References: Method 8100, Polynuclear Aromatic Hydrocarbons, Test Methods for Evaluating Solid Waste, SW-846, USEPA, September 1986.

Comments: Coral #2.


Analyst


Review

Client: **Envirotech**
 Project: Coral #2
 Sample ID: Pit at 16'
 Laboratory ID: 0395W02187
 Sample Matrix: Water
 Condition: Cool/Intact

Date Reported: 12/07/95
 Date Sampled: 11/27/95
 Time Sampled: 12:00
 Date Received: 11/28/95

Parameter	Analytical			
	Result	Units	Units	
Lab pH.....	7.6	s.u.		
Lab Conductivity @ 25° C.....	18,900	umhos/cm		
Total Dissolved Solids @ 180°C.....	14,800	mg/L		
Total Dissolved Solids (Calc).....	14,300	mg/L		
Total Alkalinity as CaCO ₃	920	mg/L		
Total Hardness as CaCO ₃	632	mg/L		
Nirate Nitrogen.....	<0.1	mg/L		
Bicarbonate as HCO ₃	1,120	mg/L	18.40	meq/L
Carbonate as CO ₃	0	mg/L	0.00	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	2,000	mg/L	56.3	meq/L
Sulfate.....	6,860	mg/L	143	meq/L
Calcium.....	115	mg/L	5.73	meq/L
Magnesium.....	84	mg/L	6.90	meq/L
Potassium.....	16	mg/L	0.40	meq/L
Sodium.....	4,640	mg/L	202	meq/L
Cations.....			214.83	meq/L
Anions.....			217.63	meq/L
Cation/Anion Difference.....			0.65	%

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 "Standard Methods For The Examination Of Water And Waste Water", 19th ed., 1995.

Reviewed by At

Reported by JB

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil / Blagg Eng.	Project #:	04034
Sample ID:	NE Corner @ 16'	Date Reported:	12-01-95
Chain of Custody:	4449	Date Sampled:	11-30-95
Laboratory Number:	9694	Date Received:	11-30-95
Sample Matrix:	Water	Date Analyzed:	11-30-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.3
Toluene	ND	1	0.4
Ethylbenzene	ND	1	0.5
m,p-Xylene	ND	1	0.4
o-Xylene	ND	1	0.4
Total BTEX	ND		

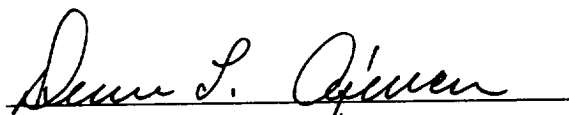
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	95 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Coral #2.


Analyst


Review