

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

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>Kimbell Oil Company of Texas</u>		Telephone: <u>(817) 335-2593</u>	e-mail address: <u>jms@kimbeloil.com</u>
Address: <u>777 Taylor Street, Suite P-IIA, Fort Worth, Texas 76102</u>			
Facility or well name: <u>Federal A #3E</u>		API #: <u>3003922317</u>	U/L or Qtr/Qtr <u>E</u> Sec <u>35</u> T <u>25N</u> R <u>6W</u>
County: <u>Rio Arriba</u>		Latitude <u>36.359338</u>	Longitude <u>-107.44241</u> NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐		RCVD DEC 19 '07	
Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type Synthetic ☐ Thickness <u> </u> mil Clay ☐ Pit Volume <u> </u> bbl	Below-grade tank Volume <u> </u> bbl Type of fluid: Construction material: Earth Pit Double-walled, with leak detection? Yes ☐ If not, explain why not. DIST. 3		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	0
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 all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	10
Ranking Score (Total Points)			10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Walls passed 418.1 standard of 1000 ppm for TPH and OVM standard of 100 ppm at 40' X 35'.
Maximum reasonable extent of excavation occurred at 6' BGS, encountered sandstone.
Approximately 311 cubic yards placed into onsite bio-pile. Excavation completed.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .	
Date: <u>12/17/2007</u>	Signature: <u>Mr. Jonathan Stickland</u>
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Approval: Printed Name/Title <u> </u> Signature <u>B. D. R.</u>	Date: <u>JAN 08 2008</u>
DEPUTY OIL & GAS INSPECTOR, DIST. 4	

CLIENT: Kimball Oil
Co. of Texas

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: _____
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No. 1 of _____

LOCATION: NAME: Federal A WELL #: 3E PIT: _____
QUAD/UNIT: S^E 1/4 SEC 35 TWP 25N RNG 6W PM. NMPM CNTY: Ariz. ST: NM
QTR/FOOTAGE: 1720' FNL 925' FNL CONTRACTOR: _____

DATE STARTED: 11/31/06
DATE FINISHED: 11-16-07
ENVIRONMENTAL SPECIALIST: MPM/R Kibler

EXCAVATION APPROX 40 FT. x 35 FT. x 6 FT. DEEP CUBIC YARDAGE: 311
DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____
LAND USE: _____ LEASE: 82-079139-A FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 138' FT. 310" FROM WELLHEAD.
DEPTH TO GROUNDWATER: 0 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 10
NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

Hand augered approx 1' BGS. Augered encountered a black sludge. No sample taken, but visually verified contamination present

SCALE
0 FT

FIELD 418.1 CALCULATIONS
200 std 203

TIME	SAMPLE ID	LAB No	WEIGHT (g)	mL FREON	DILUTION	READING	CALC ppm

PIT PERIMETER

OVM RESULTS

PIT PROFILE

AST
Superior
Steel pit
Ador

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	
2	
3	
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES
CALLOUT: _____ ONSITE: _____

Method 418.1 Analysis Log

Total Petroleum Hydrocarbons

Date 11-16-07

Analyst R Kibler

Location Fed A #3E

Instrument Infracal

Job No. 06011-006

Sample No.	Sample Description	Weight (g)	mL. Freon	Dilution	Reading	Calc. TPH (ppm)	OVM (ppm)
1	East wall	5	20	4	102	408	0.8
2	West wall	↓	↓	↓	221	884	0.8
3	North wall	↓	↓	↓	12	48	1.0
4	South wall	↓	↓	↓	32	128	1.3
5	Bottom @ 6'	↓	↓	↓	1376	5500	1058

Infrared Spectrophotometer Calibration

New Freon _____

Date Standards Prepared _____

Standard Concentration (ppm)

100 _____
200 203

500 _____
1000 _____

I-Cal RF: _____

C-Cal RF: _____

RSD: _____

% Difference: _____

QA/QC Acceptance Criteria: I-Cal RSD +/- 20%

C-Cal Difference +/- 10%

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Kimbell Oil
Sample No.: 1
Sample ID: East Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 06011-006
Date Reported: 11/27/2007
Date Sampled: 11/16/2007
Date Analyzed: 11/16/2007
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	408	5.0

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: **Federal A #3E**

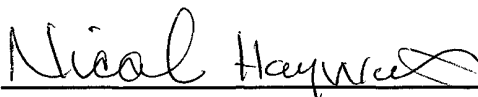
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Robin Kibler

Printed



Review

Nicole Hayworth

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Kimbell Oil
Sample No.: 2
Sample ID: West Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 06011-006
Date Reported: 11/27/2007
Date Sampled: 11/16/2007
Date Analyzed: 11/16/2007
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	884	5.0

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: **Federal A #3E**

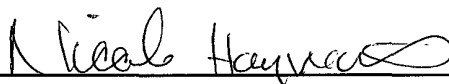
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Kimbell Oil
Sample No.: 3
Sample ID: North Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 06011-006
Date Reported: 11/27/2007
Date Sampled: 11/16/2007
Date Analyzed: 11/16/2007
Analysis Needed: TPH-418.1

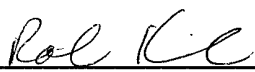
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	48	5.0

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: **Federal A #3E**

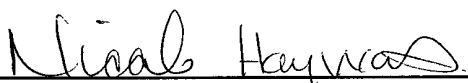
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Kimbell Oil
Sample No.: 4
Sample ID: South Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 06011-006
Date Reported: 11/27/2007
Date Sampled: 11/16/2007
Date Analyzed: 11/16/2007
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	128	5.0

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: **Federal A #3E**

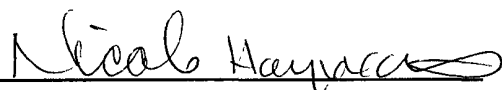
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Kimbell Oil
Sample No.: 5
Sample ID: Bottom @ 6'
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 06011-006
Date Reported: 11/27/2007
Date Sampled: 11/16/2007
Date Analyzed: 11/16/2007
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	5,500	5.0

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: **Federal A #3E**

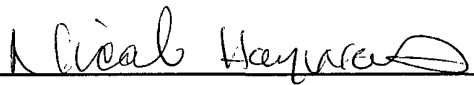
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Robin Kibler

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Nov-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	203
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Rob Kie

Analyst

11-29-07

Date

Robin Kibler

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Nicole Hayworth

Review

11/29/07

Date

Nicole Hayworth

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-006
Sample ID:	Bottom @ 6'	Date Reported:	11-21-07
Laboratory Number:	43686	Date Sampled:	11-16-07
Chain of Custody:	3628	Date Received:	11-16-07
Sample Matrix:	Soil	Date Analyzed:	11-20-07
Preservative:	Cool	Date Extracted:	11-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	7.6	0.9
Toluene	62.2	1.0
Ethylbenzene	307	1.0
p,m-Xylene	861	1.2
o-Xylene	68.6	0.9
Total BTEX	1,306	

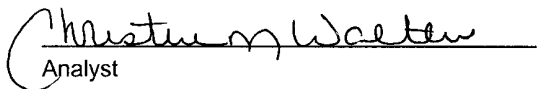
ND - Parameter not detected at the stated detection limit.

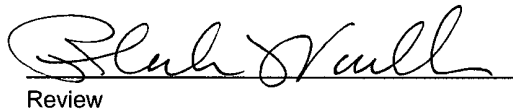
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Fed A #3E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-20-BTEX QA/QC	Date Reported:	11-21-07
Laboratory Number:	43686	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-20-07
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	1.0453E+008	1.0474E+008	0.2%	ND	0.1
Toluene	8.9777E+007	8.9957E+007	0.2%	ND	0.1
Ethylbenzene	7.0014E+007	7.0155E+007	0.2%	ND	0.1
p,m-Xylene	1.3615E+008	1.3643E+008	0.2%	ND	0.1
o-Xylene	6.5394E+007	6.5525E+007	0.2%	ND	0.1

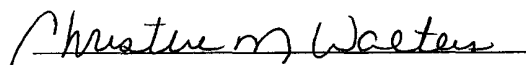
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	7.6	7.5	1.3%	0 - 30%	0.9
Toluene	62.2	65.0	4.5%	0 - 30%	1.0
Ethylbenzene	307	299	2.5%	0 - 30%	1.0
p,m-Xylene	861	863	0.3%	0 - 30%	1.2
o-Xylene	68.6	62.4	9.0%	0 - 30%	0.9

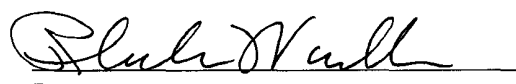
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.6	50.0	57.4	99.7%	39 - 150
Toluene	62.2	50.0	105	93.7%	46 - 148
Ethylbenzene	307	50.0	349	97.9%	32 - 160
p,m-Xylene	861	100	953	99.1%	46 - 148
o-Xylene	68.6	50.0	113	94.9%	46 - 148

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 Sample 43686.


Analyst


Review

CHAIN OF CUSTODY RECORD

3628

per RK.

Client: Kimbell			Project Name / Location: Fed A # 3E			ANALYSIS / PARAMETERS												
Client Address:			Sampler Name: R Kibler			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	Mercury Added 11/20/07	TCLP Hg 11/20/07	Sample Cool	Sample Intact
Client Phone No.:			Client No.: 06011-006															
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HNO ₃												
Former Meterhouse	11-16		43685	Soil	1										X	✓	✓	✓
Bottom @ 6'	11-16	1907	43686	Soil	1				X								✓	✓
Relinquished by: (Signature) Rol Kibler					Date	Time	Received by: (Signature) Rol Kibler					Date	Time					
Relinquished by: (Signature)							Received by: (Signature)											
Relinquished by: (Signature)							Received by: (Signature)											



5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615