

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

CAS93

OK

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

H. J. K...
Operator: CONOCO, INC. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: JICARILLA A #224
Location: Unit or Qtr/Qtr Sec K Sec 24 T26N R4W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other PRODUCTION TANK
Land Type: RANGE

Pit Location: Pit dimensions: length 32', width 31', depth 10'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 85'
Direction from reference: 20 Degrees ☒ East of North ☒
West South ☐

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

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

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	0

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	
Greater than 100 feet	(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 perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 0

CA 593

SEP. / PROD. TANK PIT

Date Remediation Started: _____ Date Completed: 7/24/98

Remediation Method: Excavation ☒ Approx. cubic yards 250
Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents. TPH & BTEX RESULTS
Closure Sampling: FROM 4 PT. COMPOSITE OF SIDEWALLS.
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 6' (WEST SIDEWALL)

Sample date 7/23/98 Sample time 1245

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.684</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>800</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>1.7</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ 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 7/24/98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Kevin C. M... DATE: 9-9-98

3003921853

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA593</u> C.O.C. NO: <u>6110</u>																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>TICARILUP</u> A WELL #: <u>22Y</u> PIT: <u>SEP</u> PROD.		DATE STARTED: <u>7/23/98</u> DATE FINISHED: _____																																								
QUAD/UNIT: <u>K</u> SEC: <u>24</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>																																								
QTR/FOOTAGE: <u>1850' FSL / 1710' FWL</u> CONTRACTOR: <u>JUC</u>																																										
EXCAVATION APPROX. <u>32</u> FT x <u>31</u> FT x <u>10</u> FT DEEP. CUBIC YARDAGE: <u>250</u>																																										
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																										
LAND USE: <u>RANGE</u> LEASE: <u>CONTRACT #105</u> FORMATION: <u>NU/DK</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>85</u> FT. <u>N20E</u> FROM WELLHEAD.																																										
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>																																										
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																										
SOIL AND EXCAVATION DESCRIPTION:																																										
SOIL MOSTLY LT. BROWN TO DUSKY RED CLAY SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT STRAINING OBSERVED W/IN EXCAVATION, SLIGHT HC ODOR DETECTED W/IN EXCAVATION, STRONG HC ODOR IN EAST & WEST OVM SAMPLES ONLY EXCAVATION LIMITED IN EAST & WEST DIRECTION DUE TO SURFACE EQUIPMENT.																																										
CLOSED SCALE 0 FT FIELD 418.1 CALCULATIONS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No.</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr> <td>1245</td> <td>⑤ e 11'</td> <td>TPH-2005</td> <td>5</td> <td>20</td> <td>1:1</td> <td>57</td> <td>228</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			TIME	SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	1245	⑤ e 11'	TPH-2005	5	20	1:1	57	228																								
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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: CONOCO
Sample ID: 5 @ 11'
Project Location: Jicarilla A # 22Y
Laboratory Number: TPH-2005

Project #:
Date Analyzed: 07-23-98
Date Reported: 07-23-98
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	230	20

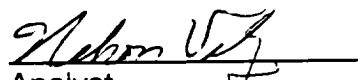
ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	228	244	6.78

*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 / Production Tank Pit - CA593


Analyst


Review

BLAGG ENGINEERING, INC.

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

Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

Sample ID:

Project Location:

Laboratory Number:

CONOCO

5 @ 11'

Jicarilla A # 22Y

TPH-2005

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

07-23-98

07-23-98

Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 1 (unitless)
TPH Reading: 57 mg/kg

TPH Result: 228.0 mg/kg
Reported TPH Result: 230 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	228	244	6.78

Comments: *****Max Characters*****

Comments: Separator / Production Tank Pit - CA593

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

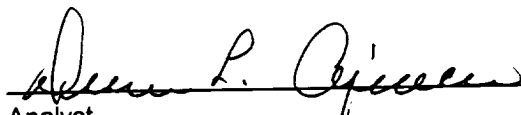
Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	07-24-98
Laboratory Number:	D687	Date Sampled:	07-23-98
Chain of Custody No:	6110	Date Received:	07-24-98
Sample Matrix:	Soil	Date Extracted:	07-24-98
Preservative:	Cool	Date Analyzed:	07-24-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

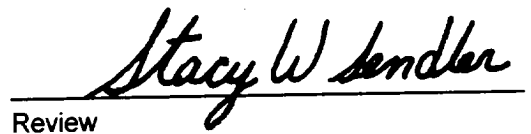
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	1.7	0.2

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: **Jicarilla A #22 Y Separator / Production Tank Pit.
4 Pt. Composite of Sidewalls.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	07-24-98
Laboratory Number:	D687	Date Sampled:	07-23-98
Chain of Custody:	6110	Date Received:	07-24-98
Sample Matrix:	Soil	Date Analyzed:	07-24-98
Preservative:	Cool	Date Extracted:	07-24-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	78.5	7.6
p,m-Xylene	420	10.8
o-Xylene	185	5.2
Total BTEX	684	

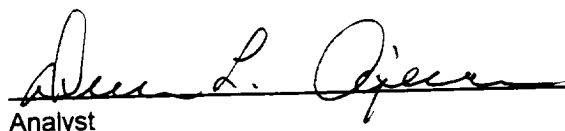
ND - Parameter not detected at the stated detection limit.

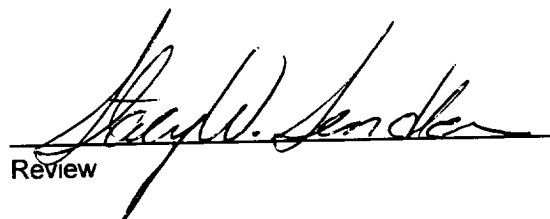
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

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: Jicarilla A #22 Y Separator / Production Tank Pit.
4 Pt. Composite.


Analyst


Review

6110

[illegible]

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

CAS93

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Conoco, Inc.</u>		Telephone: <u>(505) 324-5884</u>
Address: <u>3315 Bloomfield Hwy., Farmington, NM 87401</u>		
Facility or Well Name: <u>JICARILLA A # 22Y</u>		
Location: Unit or Qtr/Qtr Sec <u>1C</u> Sec <u>24</u> T <u>26N</u> R <u>4W</u> County <u>RIO ARIZONA</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>7/23/98</u>		Date Completed: <u>4/15/99</u>
Remediation Method: Landfarmed ☒		Approx. cubic yards: <u>400</u> <u>450</u> <u>915</u>
Composted ☐		
Other <u>(APPROX. 150 C.Y. DISPOSED FROM JICA. B #8A)</u>		
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>4/14/99</u> Time: <u>0935</u> Sample Results: Field Headspace (ppm) <u>86.1</u> TPH (ppm) <u>272</u> Method <u>8015</u> Other _____
Distance to an Ephemeral Stream (pts.) <u>0</u>		
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		
Wellhead Protection Area: (pts.) <u>0</u>		
Distance To Surface Water: (pts.) <u>0</u>		
RANKING SCORE (TOTAL POINTS): <u>0</u>		
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF		
DATE <u>4/15/99</u>		PRINTED NAME <u>Jeffrey C. Blagg, P.E. #11607</u>
SIGNATURE <u>Jeffrey C. Blagg</u>		AND TITLE <u>President</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.		
APPROVED: YES ☒ NO ☐ (REASON) _____		
SIGNED: <u>Kenneth M. Mammell</u>		DATE: <u>6-3-99</u>

CLIENT <u>CONOCO</u>	<u>BLAGG ENGINEERING, INC.</u> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA393</u> C.D.C. NO: <u>6645</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>JICARILLA</u> A WELL #: <u>224</u> PITS: <u>SEP.</u> <u>PROD.</u> QUAD/UNIT: <u>K</u> SEC: <u>24</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>Nm</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NELH</u> SW/4 CONTRACTOR: <u>JVC</u>	DATE STARTED: <u>4/14/99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
---	---

SOIL REMEDIATION: REMEDIATION SYSTEM: <u>LANDFARM</u> LAND USE: <u>RANGE</u>	APPROX. CUBIC YARDAGE: <u>400 cu yd</u> LIFT DEPTH (ft): <u>1-1.5</u>
--	--

FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMDC RANKING SCORE: <u>0</u> NMDC TPH CLOSURE STD: <u>5000</u> PPM <u>7/23/95</u>

SOIL MOSTLY OK. YELL. BROWN TO DUSKY RED SILTY SAND TO SILTY CLAY W/ SOME SHALE BEDROCK FRAGMENTS, NON COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING EVIDENT, SAMPLING DEPTHS RANGE FROM 6-12 INCHES, NO OOR APPARENT IN ALL SAMPLING PTS., COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

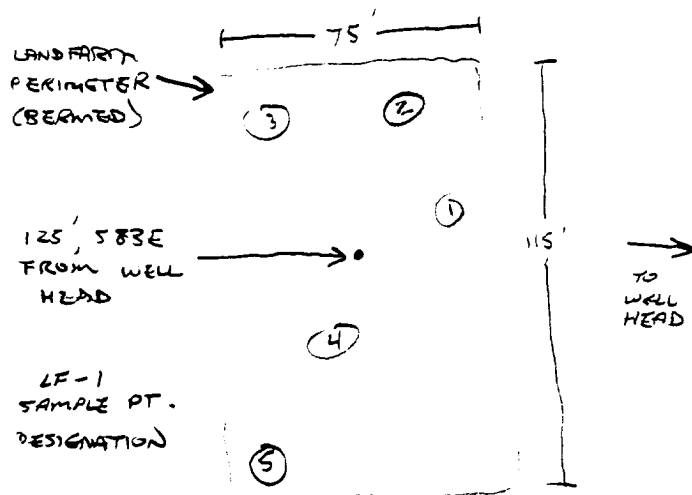
CLOSED

APPROX. 150 C.Y. DISPOSED FROM JICARILLA 878A

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS ↑ N

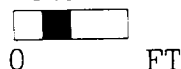


OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	86.1	LF-1	TPH (8015)	0935	272

SCALE



TRAVEL NOTES:

CALLOUT: NA

ONSITE: 4/14/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

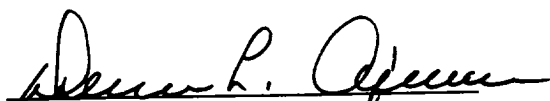
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-15-99
Laboratory Number:	F024	Date Sampled:	04-14-99
Chain of Custody No:	6645	Date Received:	04-14-99
Sample Matrix:	Soil	Date Extracted:	04-15-99
Preservative:	Cool	Date Analyzed:	04-15-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

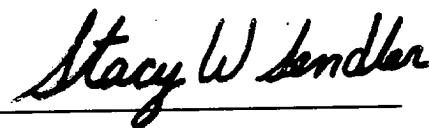
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.9	0.2
Diesel Range (C10 - C28)	266	0.1
Total Petroleum Hydrocarbons	272	0.2

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: Jicarilla A #22Y Landfarm. 5 Pt. Composite.


Analyst


Review

6645

[illegible]