

CA63Z

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

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

Denny L. Foster
DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC. **Telephone:** (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: JICARILLA RR E #16
Location: Unit or Qtr/Qtr Sec 6 Sec 17 T25N R4W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 14', width 14', depth 6'
 (Attach diagram) Reference: wellhead ☒ other ☐
 Footage from reference: 67'
 Direction from reference: 27 Degrees ☐ East of North ☒
☒ West of 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

CAG32 SEP. PIT

Date Remediation Started: _____ Date Completed: 9/16/98

Remediation Method: Excavation ☒ Approx. cubic yards 35
 (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, BEDROCK BOTTOM.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
 Closure Sampling: _____
 (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 3' (NORTH SIDEWALK)
 Sample date 9/14/98 Sample time 1345

Sample Results

Soil: Benzene	(ppm)	<u>1.250</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>36.9000</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>571</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>965</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 9/16/98 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: Ken C. M...ll DATE: 10-1-98

3003906014

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CAG32</u> C.O.C. NO: <u>6204</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARUNA BR E WELL # 16</u> PIT: <u>SEP</u>		DATE STARTED: <u>9/14/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>G SEC: 17</u> TWP: <u>25N</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>1800' ENL / 1795' FEL</u> CONTRACTOR: <u>JU</u>		

EXCAVATION APPROX. <u>14</u> FT. x <u>14</u> FT. x <u>6</u> FT. DEEP.	CUBIC YARDAGE: <u>35</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>CONTRACT #64</u> FORMATION: <u>PC</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>67</u> FT. <u>N27W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	CHECK ONE: ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED
NMOC RANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM	

SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - DK. YELL. ORANGE TO MED. GRAY SAND TO BEDROCK (SANDSTONE) NON COHESIVE, SLIGHTLY MOIST FIRM TO VERY HARD STAINING APPARENT ON ALL SIDEWALLS (PRIMARILY BOTTOM HALF - BEDROCK) NO APPARENT HC ODOR DETECTED WITH EXCAVATION, STRONG HC ODOR DETECTED IN ALL SIDEWALL DUM SAMPLES.

BOTTOM - BEDROCK (SANDSTONE) DK. YELL. ORANGE TO GRAYISH GREEN (STAINING &/OR DISCOLORATION), VERY HARD, HC ODOR DETECTED IN DUM SAMPLE.

BEDROCK BOTTOM

CLOSED

SCALE

 0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

PIT PERIMETER

OVN RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 e3'	571
2 e4'	537 RK
3 e3'	489 RK
4 e3'	428 RK
5 e6'	119.3 RK

PIT PROFILE

SAMPLE ID	ANALYSIS	TIME
1 e3'	TPH/BTEX	1345
BOTH PASSED		

TRAVEL NOTES: CALLOUT: _____ ONSITE: 9/14/98 - AFTER

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / CONOCO
Sample ID: 1 @ 3'
Laboratory Number: D929
Chain of Custody No: 6204
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

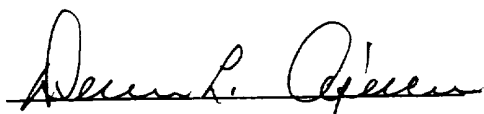
Project #: 04034-10
Date Reported: 09-16-98
Date Sampled: 09-14-98
Date Received: 09-15-98
Date Extracted: 09-16-98
Date Analyzed: 09-16-98
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	965	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	965	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 BR E #16 Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	1 @ 3'	Date Reported:	09-16-98
Laboratory Number:	D929	Date Sampled:	09-14-98
Chain of Custody:	6204	Date Received:	09-15-98
Sample Matrix:	Soil	Date Analyzed:	09-16-98
Preservative:	Cool	Date Extracted:	09-16-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,250	8.8
Toluene	12,270	8.4
Ethylbenzene	3,780	7.6
p,m-Xylene	14,470	10.8
o-Xylene	5,130	5.2
Total BTEX	36,900	

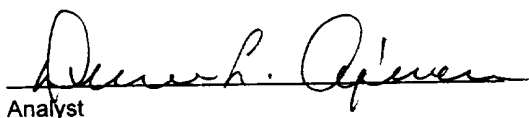
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	96 %

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 BR E #16 Separator Pit.


Analyst


Review

6204

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

CA632

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 BR E #16</u>		
Location: Unit or Qtr/Qtr Sec <u>G</u> Sec <u>17</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>9/14/98</u>		Date Completed: <u>4/19/99</u>
Remediation Method: Landfarmed ☒		Approx. cubic yards <u>35</u>
Composted ☐		
Other ☐		
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>4/15/99</u> Time: <u>1125</u> Sample Results: Field Headspace (ppm) <u>77.2</u> TPH (ppm) <u>0.6</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>4/19/99</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>Karen C. M...</u>		DATE: <u>6-3-99</u>

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA632</u> C.D.C. NO: <u>6653</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JICARILLA BR E</u> WELL #: <u>16</u> PITS: <u>SEP.</u>	DATE STARTED: <u>4/15/99</u>
QUAD UNIT: <u>6</u> SEC: <u>17</u> TWP: <u>25N</u> RNG: <u>4W</u> PM: <u>Nm</u> CNTY: <u>SA</u> ST: <u>Nm</u>	DATE FINISHED: _____
STR/FEEDBACK: <u>SW/4 NE/4</u> CONTRACTOR: <u>JVC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 35
LAND USE: RANGE LIFT DEPTH (ft): 1

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMED RANKING SCORE: 0 NMED TPH CLOSURE STD: 5000 PPM 9/14/98

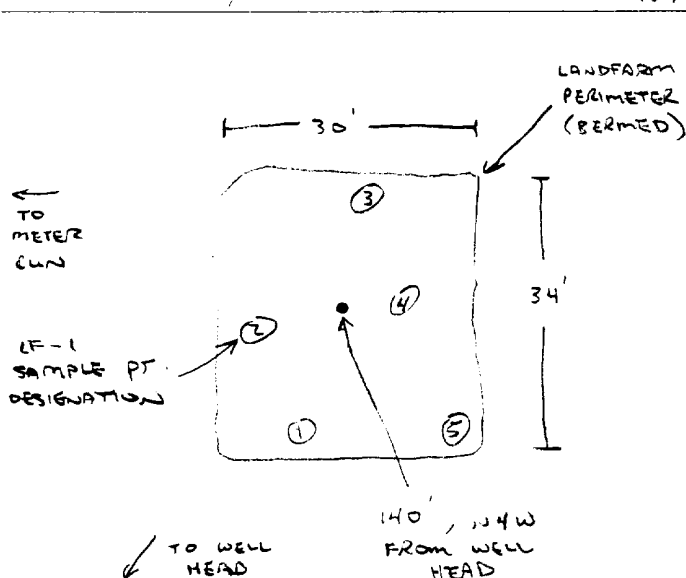
SOIL MOSTLY OLIVE GRAY TO DUSKY RED SILTY SAND WITH SHALE BEDROCK FRAGMENTS, NON COHESIVE, SLIGHTLY MOIST TO MOIST, FIRM, SAMPLING DEPTH APPROX. 6-8 INCHES, NO APPARENT STAINING OBSERVED, HC ODOR DETECTED IN SAMPLING PTS. ① & ② & APPEARS TO BE ASSOCIATED w/ OLIVE GRAY COLORING, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	77.2	LF-1	TPH (8015)	1125	0.6

SCALE



TRAVEL NOTES:

CALLOUT: NA

ONSITE: 4/15/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

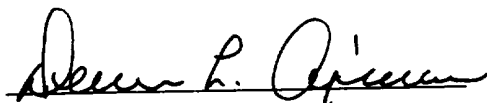
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-19-99
Laboratory Number:	F046	Date Sampled:	04-15-99
Chain of Custody No:	6653	Date Received:	04-16-99
Sample Matrix:	Soil	Date Extracted:	04-16-99
Preservative:	Cool	Date Analyzed:	04-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

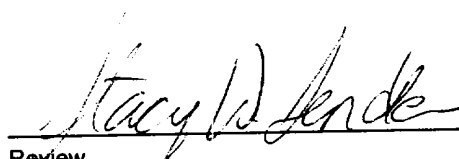
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.6	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.6	0.2

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 BR E #16 Landfarm. 5 Pt. Composite.


Analyst


Review

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