

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

CA633
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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 BR C #13
Location: Unit or Qtr/Qtr Sec E Sec 16 T 25N R 4W County RIO ARRIBA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 21', width 21', depth 9'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 23'
Direction from reference: 50 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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

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

Remediation Method: Excavation ☒ Approx. cubic yards 100
 (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:
Closure Sampling:**
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 10' (PIT BOTTOM)

Sample date 9/14/98

Sample time 1500

Sample Results

Soil: Benzene (ppm) 0.150

Water: Benzene (ppb) _____

Total BTEX (ppm) 24.910

Toluene (ppb) _____

Field Headspace (ppm) 492

Ethylbenzene (ppb) _____

TPH (ppm) 698

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: Kee C. M... DATE: 10-1-98

3003921158

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA633</u> C.O.C. NO: <u>6205</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>TICARILLA BR C</u> WELL #: <u>13</u> PIT: <u>SEP.</u>		DATE STARTED: <u>9/14/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>E</u> SEC: <u>16</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>1750' FUL</u> <u>1100' FUL</u> CONTRACTOR: <u>JVC</u>		

EXCAVATION APPROX. <u>21</u> FT. x <u>21</u> FT. x <u>9</u> FT. DEEP. CUBIC YARDAGE: <u>100</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>CONTRACT #66</u> FORMATION: <u>PC</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>23</u> FT. <u>NSOW</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>

NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

PALE YELL. ORANGE TO DUSKY RED/LT. GRAY SAND TO CLAY (PIT BOTTOM)
NON COHESIVE TO HIGHLY PLASTIC, SLIGHTLY MOIST, FIRM NO APPARENT
STAINING OR HC ODOR OBSERVED/DETECTED W/IN EXCAVATION, PIT
BOTTOM CONSISTED OF DUSKY RED/LT. GRAY CLAY, VERY STIFF TO HARD,
STRONG HC ODOR IN OVM SAMPLE.

CHECK ONE:

- ☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

CLOSED

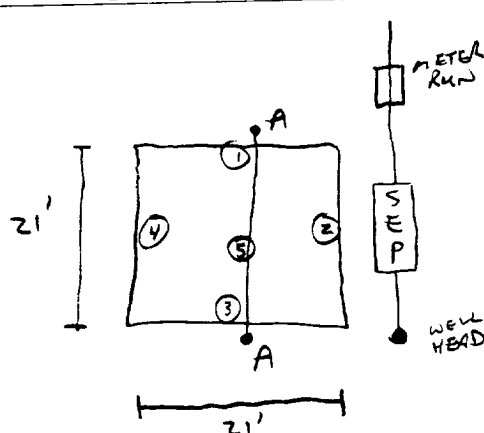
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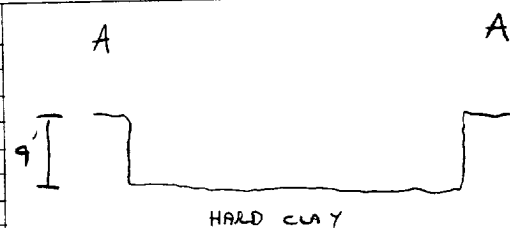
FIELD 418.1 CALCULATIONS

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

PIT PERIMETER RESULTS PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	0.0
2 @ 4'	0.0
3 @ 5'	0.0
4 @ 4'	0.0
5 @ 10'	492



LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
5 @ 10'	TPH/BTEX	1500
<u>ROTA PASSED</u>		

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

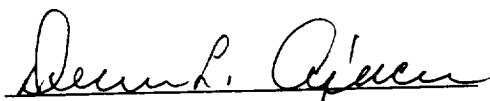
Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	5 @ 10'	Date Reported:	09-16-98
Laboratory Number:	D930	Date Sampled:	09-14-98
Chain of Custody No:	6205	Date Received:	09-15-98
Sample Matrix:	Soil	Date Extracted:	09-16-98
Preservative:	Cool	Date Analyzed:	09-16-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

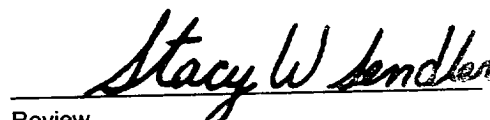
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	698	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	698	0.2

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 C #13 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:	5 @ 10'	Date Reported:	09-16-98
Laboratory Number:	D930	Date Sampled:	09-14-98
Chain of Custody:	6205	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	150	8.8
Toluene	5,850	8.4
Ethylbenzene	1,720	7.6
p,m-Xylene	10,440	10.8
o-Xylene	6,750	5.2
Total BTEX	24,910	

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 BR C #13 Separator Pit.


Analyst


Review

6205

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CA633

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ENVIRONMENTAL PROTECTION OFFICE
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DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Conoco, Inc. Telephone: (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: JICARILLA BR C #13

Location: Unit or Qtr/Qtr Sec E Sec 16 T~~2~~5N R~~4~~W County RIO ARriba

Land Type: RANGE

Date Remediation Started: 9/14/98 Date Completed: 4/19/99

Remediation Method: Landfarmed ☒ Approx. cubic yards 100
Composted ☐
Other ☐

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa,
or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 4/15/99 Time: 0905

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 0.5 Method 8015

Other ☐

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 4/19/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

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: Kenneth M. M... .. DATE: 6-3-99

CLIENT <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA633</u> C.O.C. NO: <u>6650</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JCARINA BR C</u> WELL #: <u>13</u> PITS: <u>SEP.</u>	DATE STARTED: <u>4/15/99</u>
QUAD/UNIT: <u>E</u> SEC: <u>16</u> TWP: <u>25N</u> RNG: <u>4W</u> PM: <u>PM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
DEP/FOOTAGE <u>swly nwly</u> CONTRACTOR: <u>JVC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 100
LAND USE: RANGE LIFT DEPTH (ft): 1-1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

WELL PAVING SCORE 0 NMCD TPH CLOSURE STD: 5000 PPM 9/14/98

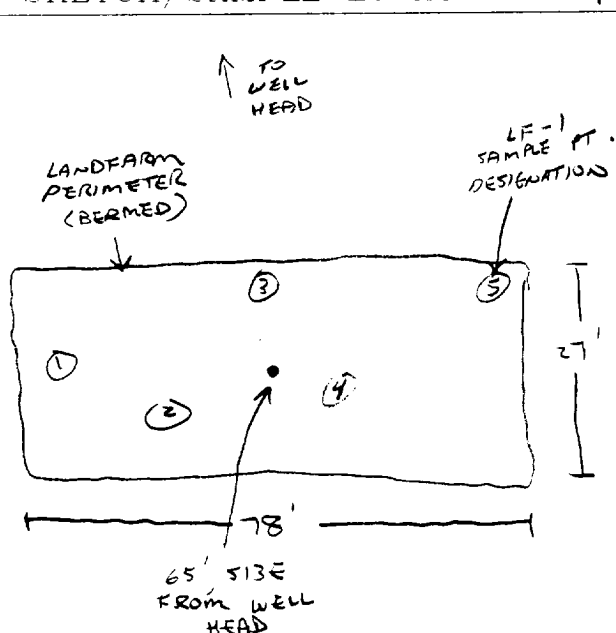
OLIVE GRAY TO DUSKY RED SILTY SAND TO SILTY CLAY, NON COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 8-12 INCHES, NO APPARENT STRAINING OBSERVED, NO APPARENT HC ODOR DETECTED IN ANY OF THE SAMPLING PTS., COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

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	0.0	LF-1	TPH (8015)	0905	0.5

SCALE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: 4/15/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

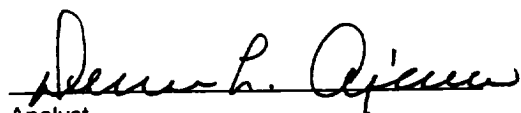
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-19-99
Laboratory Number:	F043	Date Sampled:	04-15-99
Chain of Custody No:	6650	Date Received:	04-16-99
Sample Matrix:	Soil	Date Extracted:	04-16-99
Preservative:	Cool	Date Analyzed:	04-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

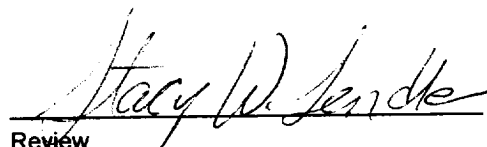
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.5	0.2

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 C #13 Landfarm. 5 Pt. Composite.


Analyst


Review

6650

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