

CA402

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**

PIT REMEDIATION AND CLOSURE REPORT

Approved 7/26/97

Operator: CONOCO, INC. **Telephone:** (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: JICARILLA #11

Location: Unit or Qtr/Qtr Sec 6 Sec 30 T26N R 4W County RIO ARriba

Pit Type: Separator Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location: Pit dimensions: length 25', width 25', depth 19'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 115'

Direction from reference: 16 Degrees East of North X
X West South

Depth To Groundwater:

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

RECEIVED
OCT 29 1996

Less than 50 feet
50 feet to 99 feet
Greater than 100 feet

(20 points)
(10 points)
(0 points)

0

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

OIL CON. DIV.
DEPT. 3

Less than 100 feet
Greater than 100 feet

(10 points)
(0 points)

0

Distance to Nearest Lake, Playa, or Watering Pond

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

Less than 100 feet
Greater than 100 feet

(10 points)
(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
No

(20 points)
(0 points)

0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet
100 feet to 1000 feet
Greater than 1000 feet

(20 points)
(10 points)
(0 points)

0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/13/96 Date Completed: 8-13-96

Remediation Method: Excavation X Approx. cubic yards 300
 Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
 Other _____

Remediation Location: Onsite _____ Offsite X JICARILLA LANDFARM #7
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation & HAUL

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

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

Sample depth 13' + 20'

Sample date 8-13-96 Sample time 0735

Sample Results		13'	20'		
Soil: Benzene	(ppm)	<u>.39</u>	<u>.44</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm)	<u>3.68</u>	<u>1.93</u>	Toluene	(ppb) _____
Field Headspace	(ppm)	<u>238</u>	<u>141</u>	Ethylbenzene	(ppb) _____
TPH	(ppm)	<u>1240</u>	<u>1412</u>	Total Xylenes	(ppb) _____

Groundwater Sample: Yes _____ No X (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 8-15-96 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 X NO _____ (REASON) spray w/ Fertilizer + close

SIGNED: Kevin C. Mammill DATE: 8-15-96

120

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA402</u> C.D.C. NO: <u>4988</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARILLA</u> WELL #: <u>11</u> PIT: <u>PROD.</u>		DATE STARTED: <u>8/13/96</u>
QUAD/UNIT: <u>6</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> STNM:		DATE FINISHED: _____
QTR/FOOTAGE: <u>1850' FNL/1450'</u> CONTRACTOR: <u>ACME/ GARZA</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>25</u> FT. x <u>25</u> FT. x <u>19</u> FT. DEEP.	CUBIC YARDAGE: <u>300</u>
DISPOSAL FACILITY: <u>JICARILLA LANDFARM #7</u>	REMEDIAL METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>CONTRACT #120</u> FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>115</u> FT. <u>N16W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>2100'</u>	NEAREST WATER SOURCE: <u>21000'</u> NEAREST SURFACE WATER: <u>21000'</u>
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM
CHECK ONE: ☐ PIT ABANDONED ☐ STEEL TANK INSTALLED	

SOIL AND EXCAVATION DESCRIPTION:

mostly OK. YELL. ORANGE TO OLIVE GRAY SILTY SAND, NON-COHESIVE, SLIGHTLY MOIST, DENSE, HC ODOR DETECTED W/IN EAST SIDEWALL & PIT BOTTOM OUM SAMPLES, OLIVE GRAY DISCOLORATION APPEARS TO BE ASSOCIATED W/ HC CONTAMINATION, PRODUCTION TANK & UNDERGROUND PIPING LOCATED VERY CLOSE TO EAST SIDE OF EXCAVATION.

FIELD 418.1 CALCULATIONS

(CLOSED)

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0730	③ @ 13'	TAH-1775	5	20	1:1	310	1,240
0735	⑤ @ 20'	TAH-1776	5	20	1:1	353	1,412

SCALE

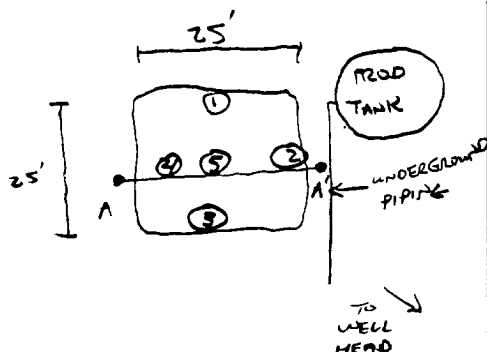


0 FT

PIT PERIMETER

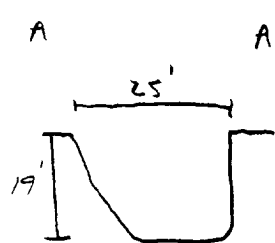
OVN RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 13'	33.2
2 @ 13'	237.9
3 @ 10'	0.0
4 @ 12'	8.6
5 @ 20'	140.5

SAMPLE ID	ANALYSIS	TIME
② @ 13'	BTEX	0730
⑤ @ 20'	BTEX	0735



TRAVEL NOTES:

CALLOUT: 8/12/96 AFTER. ONSITE: 8/13/96 MORN.

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: 2 @ 13'
Project Location: Jicarilla # 11
Laboratory Number: TPH-1775

Project #:
Date Analyzed: 08-13-96
Date Reported: 08-13-96
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,200	20

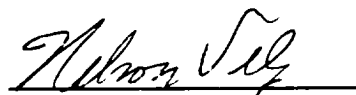
ND = Not Detectable at stated detection limits.

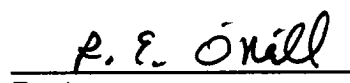
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3292	3536	7.15

*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: Production Tank Pit - CA402


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Conoco	Project #:	04034
Sample ID:	2 @ 13'	Date Reported:	08-14-96
Laboratory Number:	A469	Date Sampled:	08-13-96
Chain of Custody:	4888	Date Received:	08-14-96
Sample Matrix:	Soil	Date Analyzed:	08-14-96
Preservative:	Cool	Date Extracted:	08-14-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	386	17.5
Toluene	70.1	16.7
Ethylbenzene	171	15.2
p,m-Xylene	2,310	21.6
o-Xylene	743	10.4
Total BTEX	3,680	

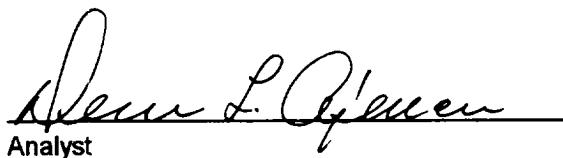
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	102 %

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: Jicarilla #11 Prod. Tank Pit.


Analyst


Review

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 @ 20'
Project Location: Jicarilla # 11
Laboratory Number: TPH-1776

Project #:
Date Analyzed: 08-13-96
Date Reported: 08-13-96
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,400	20

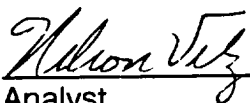
ND = Not Detectable at stated detection limits.

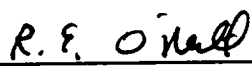
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3292	3536	7.15

*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: Production Tank Pit - CA402


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Conoco	Project #:	04034
Sample ID:	5 @ 20'	Date Reported:	08-14-96
Laboratory Number:	A470	Date Sampled:	08-13-96
Chain of Custody:	4888	Date Received:	08-14-96
Sample Matrix:	Soil	Date Analyzed:	08-14-96
Preservative:	Cool	Date Extracted:	08-14-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	439	17.5
Toluene	216	16.7
Ethylbenzene	198	15.2
p,m-Xylene	672	21.6
o-Xylene	408	10.4
Total BTEX	1,930	

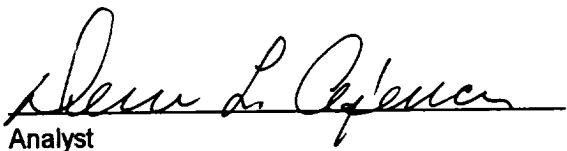
ND - Parameter not detected at the stated detection limit.

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

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: Jicarilla #11 Prod. Tank Pit.


Analyst


Review

1-800-855-6829