

Denny E. Faust
 DEPUTY OIL & GAS INSPECTOR

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

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 B #8A

Location: Unit or Qtr/Qtr Sec D Sec 25 T 26N R 4W County RIO ARriba

Pit Type: Separator Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location: Pit dimensions: length 29', width 24', depth 13'
 (Attach diagram)

Reference: wellhead , other _____

Footage from reference: 80'

Direction from reference: 55 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)	<u>0</u>
	Greater than 100 feet	(0 points)	
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	
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)	<u>0</u>
	No	(0 points)	
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)	<u>0</u>
	Greater than 1000 feet	(0 points)	
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started: _____ Date Completed: 7/23/98

Remediation Method: Excavation Landfarmed Other _____
Approx. cubic yards 300
Insitu Bioremediation _____

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

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 8' (EAST SIDEWALL)
Sample date 7/23/98 Sample time 1145

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>2.8</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>44</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 7/23/98 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. Mamm DATE: 9-9-98

3003921929

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA592</u> C.O.C. NO: _____
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FIELD REPORT: <u>CLOSURE VERIFICATION</u>	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>JICARILLA</u> B WELL #: <u>8A</u> PIT: <u>SEP/PROD</u>	DATE STARTED: <u>7/23/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>D</u> SEC: <u>Z5</u> TWP: <u>Z6N</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>810' FWL / 1005' FWL</u> CONTRACTOR: <u>JVC</u>	

EXCAVATION APPROX. 29 FT x 24 FT x 13 FT. DEEP. CUBIC YARDAGE: 300

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: CONTRACT #106 FORMATION: MV/DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 80 FT. N55W FROM WELLHEAD.

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

NMOCB PANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

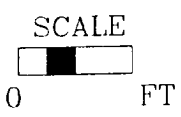
PIT ABANDONED

STEEL TANK INSTALLED

FIBERGLASS TANK INSTALLED

SOIL MOSTLY LT. BROWN TO DUSKY RED CLAY SLIGHTLY PLASTIC TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT STAINING OR HC ODOR EVIDENT W/IN EXCAVATION, NO APPARENT HC ODOR DETECTED IN ANY OF THE OVM SAMPLES.

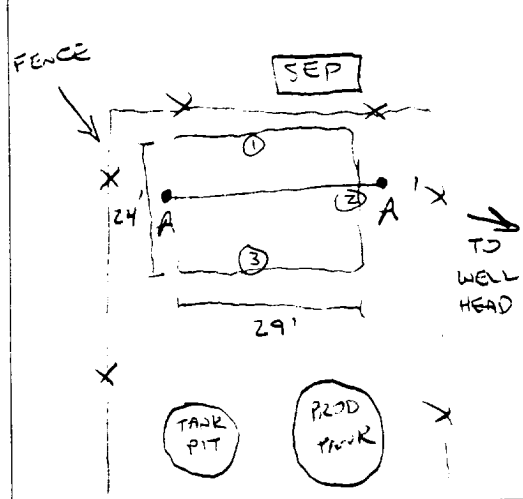
CLOSED



FIELD 4181 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1145	② e 8'	TPH-2004	5	20	1:1	11	44

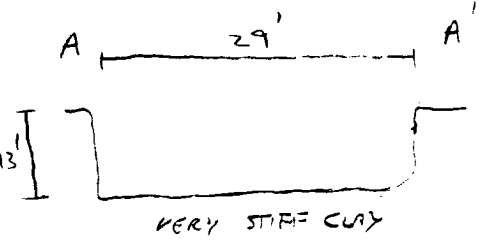
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 e 7'	0.0
2 e 8'	2.8
3 e 8'	0.0
4 e 7'	0.0
5 e 13'	0.0

PIT PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: 7/22/98 - MORN. ONSITE: 7/23/98 - 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	Project #:	
Sample ID:	2 @ 8'	Date Analyzed:	07-23-98
Project Location:	Jicarilla B # 8A	Date Reported:	07-23-98
Laboratory Number:	TPH-2004	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	44	20


ND = Not Detectable at stated detection limits.

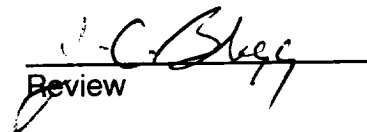
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1684	1712	1.65

*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 - CA592


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:		Project #:	
Client:	CONOCO	Date Analyzed:	07-23-98
Sample ID:	2 @ 8'	Date Reported:	07-23-98
Project Location:	Jicarilla B # 8A	Sample Matrix:	Soil
Laboratory Number:	TPH-2004		

Sample Weight:	5.00 grams
Volume Freon:	20.00 mL
Dilution Factor:	1 (unitless)
TPH Reading:	11 mg/kg

TPH Result:	44.0 mg/kg
Reported TPH Result:	44 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.
	-----	-----	-----
	1684	1712	1.65

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

Comments: Separator / Production Tank Pit - CA592

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

CA542

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 B # 8A</u>	
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>25</u> T <u>26N</u> R <u>4W</u> County <u>RIO ARriba</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>7/23/98</u> Date Completed: <u>4/15/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>150</u>	
Composted <input type="checkbox"/>	
Other <u>APPROX. 150 C.Y. DISPOSED TO JICA. A 227</u>	
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>4/14/99</u> Time: <u>0845</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	Sample Results:
Wellhead Protection Area: (pts.) <u>0</u>	Field Headspace (ppm) <u>0.0</u>
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>52.9</u> Method <u>8015</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>	Other _____
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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: <u>Ke 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>CA592</u> C.B.C NO: <u>6644</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JICARILLA B</u> WELL #: <u>8A</u> PITS: <u>SEP. / PROD.</u>	DATE STARTED: <u>4/14/99</u>
QUAD/UNIT: <u>D</u> SEC: <u>25</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
STR/ROOSTAGE: <u>nw/4 nw/4</u> CONTRACTOR: <u>TVC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>150</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOED PANKING SCORE 0 NMOED TPH CLOSURE STD: 5000 PPM 7/23/98

SOIL MOSTLY DR. PELL. BROWN SILTY SAND TO SILTY CLAY, NON COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM, SAMPLING DEPTH @ 6 INCHES FOR ALL SAMPLING PTS., NO APPARENT STAINING OBSERVED, NO APPARENT HC OR DR IN COMPOSITE SAMPLE SOIL, COLLECTED 5 FT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

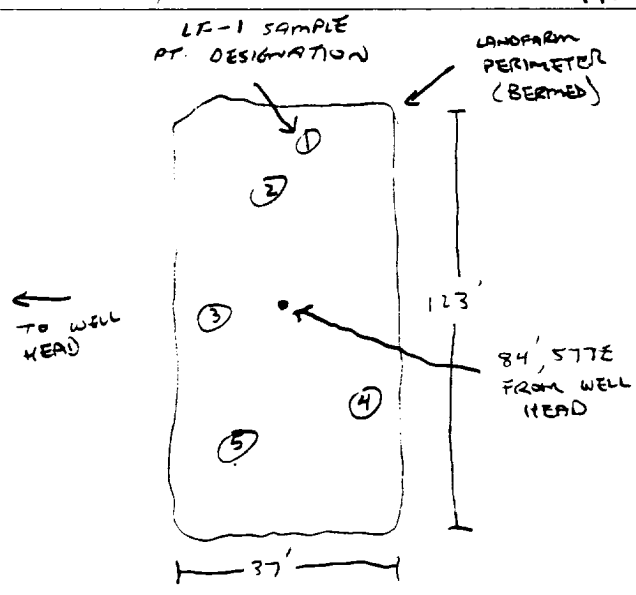
CLOSED

APPROX. 150 C.Y. DISPOSED TO JICARILLA A #22Y

FIELD 418.1 CALCULATIONS

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

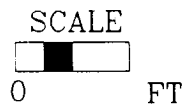
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	0845	52.9



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

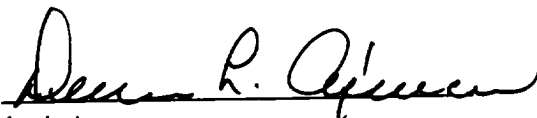
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-15-99
Laboratory Number:	F023	Date Sampled:	04-14-99
Chain of Custody No:	6644	Date Received:	04-14-99
Sample Matrix:	Soil	Date Extracted:	04-15-99
Preservative:	Cool	Date Analyzed:	04-15-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.5	0.2
Diesel Range (C10 - C28)	51.4	0.1
Total Petroleum Hydrocarbons	52.9	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 B #8A Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

6644

Client / Project Name <i>BLAKE / COND CO</i>			Project Location <i>LANDFARM</i>			ANALYSIS / PARAMETERS								
Sampler: <i>NTV</i>			Client No. <i>403410</i>			Remarks								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers <i>(805)</i>	TPH								
<i>LF-1</i>	<i>4/14/99</i>	<i>0845</i>	<i>F023</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>								<i>5 PT. COMPOSITE</i>
														<i>RESERV. - COOL</i>
Relinquished by: (Signature) <i>[Signature]</i>			Date <i>4/14/99</i>	Time <i>1535</i>	Received by: (Signature) <i>[Signature]</i>			Date <i>4.14.99</i>	Time <i>15:35</i>					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									

ENVIROTECH INC.

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

Sample Receipt

Received Intact	<input checked="" type="checkbox"/>	Y	N	N/A
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	✓		