JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

DULCE, NEW MEXICO 87528

BIS49

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

AUG 0 9 1999

	OIL CON DIV
Operator: AMOCO PRODUCTION COMPANY	Telephone: (303)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name:	
Location: Unit or Qtr/Qtr Sec Sec	EZGN RYW County RIO ARRIBA
Pit Type: Separator Dehydrator Other_	
Land Type: RANGE	
Pit Location: Pit dimensions: length_	45', width 45', depth 4'
(Attach diagram) Reference: wellhead X	_, other
Footage from reference:	<u>'752</u>
	77 Degrees East 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)
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)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	d Less than 100 feet (10 points) 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) No (0 points)
Distance To SurfaceWater: (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)
Ψ	RANKING SCORE (TOTAL POINTS):

		6754	BLOW PIT
Date Remediation Sta	arted:		ed: 4/23/98
Remediation Method:	Excavation	Approx. cubic	yards
Check all appropriate (great sections)	Landfarmed 🔀	Insitu Bioremed	liation
	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)			2
General Description	of Remedial Action: Excav	ation. Beologic	Bottom
Groundwater Encoun	tered: No X Ye	es Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Atta		
attach sample results and diagram of sample	Sample depth 4'		
locations and depths)	Sample date $\frac{4}{23}/9$		time
	Sample Results		
li	Soil: Benzene (pp	m) Water	: Benzene (ppb)
	Total BTEX (pp	m)	Toluene (ppb)
	Field Headspace (pp	m) <u>196</u>	Ethylbenzene (ppb)
	ТРН (рр	m) <u>776</u>	Total Xylenes (ppb)
Groundwater Sample	:: Yes No	(If yes, attach sam	ple results)
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ELIEF	ABOVE IS TRUE AND (COMPLETE TO THE BEST OF MY
DATE	4/23/98 PRINT	ED NAME Buddy D	. Shaw
SIGNATURE BLA			nental Coordinator
AFTER REVIEW OF	THE PIT CLOSURE INFORM APACHE TRIBE PIT CLOSU	ATION, PIT CLOSURE RE ORDINANCE.	IS APPROVED IN ACCORDANCE
APPROVED: YES	NO (REASON) _		
SIGNED:	mont D	ATE: <u>4-29-98</u>	

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413	C.O.C. NO:
(505) 632-1199	
FIELD REPORT. CLOSORE VERMITOTION	PAGE No: _/ of _/
LOCATION: NAME: JICA, APACHE 102 WELL #: 7E PIT: 820W	DATE STARTED: 4/23/98 DATE FINISHED:
QUAD/UNIT: D SEC: 3 TWP: ZEN RNG: 4W PM:NM CNTY: RA ST: NM	ENVIRONMENTAL NV SPECIALIST:
QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P+5	
EXCAVATION APPROX. 45 FT. x 45 FT. x 4 FT. DEEP. CUBIC	I TAKDAGO
DISPOSAL FACILITY: ON-SITE REMEDIATION METHO	RMATION: OK
LAND USE: LEASE.	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 237 FT. 5	FRUM WELLHEAD.
DEPTH TO GROUNDWATER: >/00 / NEAREST WATER SOURCE: >1000 / NEAREST SURFACE	
Mulich Wallita Social ===	_ PIT ABANDONED STEEL TANK INSTALLED
SOIL AND EXCAVATION DESCRIPTION:	STEEL TANK INSTALLED
SIDEWALLS - MOSTLY MOD. TO DR. YELL BROWN SAND	NON COHESIUS
SLIGHTLY MUIST FIRM, SOME BEDROCK OBS	ERICD THROUGHOUT
SLIGHTLY MUIST FIRM, SOME BEDROCK OBS WARIOUS LOCATIONS NO APPARENT STRINING WILL TOP HOLF OF EXCHAPTION NO APPARE	NT HE ODOR DETECTED
IN ANY 62 THE DURE STATE	WORD VERY MOIST
BOTTOM - MUSTRY LT. GRAY BEDROCK (SANDSTONE) VEICH DUSKY BROWN SAND (PARAFFIN MIXED) TUROLENO DUSKY BROWN SAND (PARAFFIN MIXED) TUROLENO STR	INT MOJORITY OF PI)
BOTTOM (SEE PI) PERMETER	ONG HE BUOK STATE
REDROCK (KISK ASSESSED)	
BOTTON TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON C	NULTION READING CALC. ppm
	1:1 44 176
SCALE 1315 2 2 7 TPH-1963 5 20	
O FT	
PIT PERIMETER PIT	PROFILE
OVM DESULTS A	A)
A RESULIS	45'
SAMPLE FIELD HEADSPACE PID (ppm)	
70 3 2 2 1 0.0 Ty	
WELL 40.0	BEDROCK
45 B B S 5E 4' 296	SEUR CX
3	
A)	
LAB SAMPLES SAMPLE ANALYSIS TIME	
TRAVEL NOTES: CALLOUT: 4/22/98 - AFTER. ONSITE: 4/23/98 -	AFTER .

Well Name:
Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Horizonal Distance to Surface Water:
Vicinity Groundwater Depth:

Jicarilla Contract 102 #7E Unit D, Sec. 3, T26N, R4W Blow Pit Basin Dakota Non Vulnerable > 1000 ft. > 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 4 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.26 miles west of the nearest vulnerable area boundary (Cottonwood Canyon wash).

(Refer to Pine Lake Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic). 1982 photorevised, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

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:

AMOCO

Sample ID:

2 @ 2'

Jicarilla Apache 102 - 7E

Project Location: Laboratory Number:

TPH-1963

Project #:

Date Analyzed:

04-23-98

Date Reported:

04-23-98

Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg – – – – –
Total Recoverable Petroleum Hydrocarbons	180	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
608	568	6.80

^{*}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:

Blow Pit - BJ549

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:

AMOCO

Sample ID:

2 @ 2'

Project Location: Laboratory Number: Jicarilla Apache 102 - 7E

TPH-1963

Project #:

Date Analyzed: Date Reported: 04-23-98 04-23-98

Soil Sample Matrix:

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

44 mg/kg

TPH Result:

176.0 mg/kg

Reported TPH Result: Actual Detection Limit: 180 mg/kg

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

608

Duplicate TPH mg/kg

568

6.80

%

Diff.

Comments:

Comments:

Blow Pit - BJ549

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

8T549 SUBMIT 1 COPY TO NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, NM	
Facility or Well Name: JICARILLA APACH	
Location: Unit or Qtr/Qtr Sec D Sec 3 T261	N R 4W County KN HIUCISTI
Pit Type: Separator <u>Y</u> Dehydrator Other	
Land Type: RANGE	
(Attach diagram)	other
Direction from reference: 6/	Degrees East North of West South
	T 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)
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)
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)
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)
Distance To SurfaceWater: (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)
r n.	RANKING SCORE (TOTAL POINTS):

	helae
Date Remediation Sta	nrted: Date Completed:4/28/98
Remediation Method:	Excavation Approx. cubic yards 80
Check all appropriate sections)	Landfarmed Insitu Bioremediation
	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	
General Description	of Remedial Action: Excavation, BEDROCK BOTTOM, SPRAYED
NORTH & U	west sideward will tertilizer.
Groundwater Encoun	tered: No Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample	Sample depth
locations and depths)	Sample date
	Sample Results
ı,	Soil: Benzene (ppm) 1.580 Water: Benzene (ppb)
i.	Total BTEX (ppm) <u>46.030</u> Toluene (ppb)
	Field Headspace (ppm) 472 Ethylbenzene (ppb)
	TPH (ppm) 3,610 Total Xylenes (ppb)
Groundwater Sample	e: Yes No X (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND E	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF M BELIEF
DATE	9/28/98 PRINTED NAME Buddy D. Shaw
SIGNATURE BLO	Oly J. Show AND TITLE _Environmental Coordinator
A PORTED DEVIEW OF	F THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANC A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES 2	NO (REASON)
SIGNED:	DATE: 5-7-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: JICA: APRCHE JOZ WELL #: 7E PIT: SEP QUAD/UNIT: D SEC: 3 TWP: 26N RNG: 4W PM: NM CNTY: RA ST:NM QTR/FOOTAGE: NW/4 NW/Y CONTRACTOR: P+5 LOCATION NO: 57 C.O.C. NO: 57 COULT STEND NO: 4/23/ DATE STARTED: 4/23/ DATE FINISHED: ENVIRONMENTAL NV SPECIALIST: NV	
LOCATION: NAME: JICA. APACHE JOZ WELL #: 7E PIT: .SEP. QUAD/UNIT: D SEC: 3 TWP: ZEN RNG: 4W PM: NM CNTY: RA ST:NM QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P+S DATE STARTED: 4/23/ DATE START	
QUAD/UNIT: D SEC: 3 TWP: ZEN RNG: 4W PM: NM CNTY: RA ST:NM QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P+5 DATE FINISHED:	70
QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P+5 SPECIALIST:	
URAFILLIAGE: NOT NOTE	
EXCAVATION APPROX. 25 FT. x 22 FT. x 5 FT. DEEP. CUBIC YARDAGE: 80	
REMEDIATION METHOD: LANDFACTION	
LAND USE: KANGE LEASE: JIE 102 FORMATION: OR	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY /50 FT. NETW FROM WELL	_HEAD.
DEPTH TO GROUNDWATER: >/00 / NEAREST WATER SOURCE: >/000 / NEAREST SURFACE WATER: >/000 / NEDECK ONE: NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM	
LODI AND EYCAMATION DESCRIPTION:	
FIBERGLASS TANK INS	,
DOOR FUIDENT WHO EXCOUNTION, STRONG HE ODER DETECT IN MORTH & WEST SIDEWALL DUM SAMPLES.	שבי
BOTTOM - LT. GRAY BEDROCK (SANDSTONE), WELY HARD, HE ODOR DEFECTED	1~
ovm sample.	
BEDROCK KISK ASSESSED	
BOTTOM TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC	. ppm
SCALE 12.15	
O FT	
O FT PIT PERIMETER N PIT PROFILE	
OVM)
RESULTS A SAMPLE FIELD HEADSPACE PID (ppm) 22	A
A. B. SEP 2 0.0 5 7	 -
4 = 1 457	7)
22' B 6 70 202 BEDROCK	
HEND HEND	
À'	
LAB SAMPLES SAMPLE ANALYSIS TIME ID	
Dez' TPH BTEX 1215	
BOTH PASSED	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 102 #7E
Unit D, Sec. 3, T26N, R4W
Separator Pit
Basin Dakota
Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 5 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 5 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.5 miles west northwest of the nearest vulnerable area boundary (Cottonwood Canyon wash).

(Refer to <u>Pine Lake Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1982, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).</u>

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 1 @ 2' D168 5752 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 04-28-98 04-23-98 04-24-98 04-27-98 04-28-98 8015 TPH
--	--	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,490	0.2
Diesel Range (C10 - C28)	1,120	0.1
Total Petroleum Hydrocarbons	3,610	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 Apache 102 - 7E Separator Pit.

Analyst Programme

Réview Jander



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 1 @ 2' D168 5752 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 04-28-98 04-23-98 04-24-98 04-27-98 04-27-98 BTEX
---	--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
	4.500	17.5
Benzene Benzene	1,580	16.7
Foluene	1,860	15.2
Ethylbenzene	1,090	
o,m-Xylene	25,040	21.6
o-Xylene	16,460	10.4
Total BTEX	46,030	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	99 % 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-82

USEPA, December 1996.

Comments:

Jicarilla Apache 102 - 7E Separator Pit.

Analyst

Atay W. Jende

CHAIN OF CUSTODY RECORD

ANALYSIS/PARAMETERS 2-7E of nerity by 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Matrix So/L ENVIROT 5796 U.S. Hig Farmington, New (505) 6:	98 /2/5	Sampler: (Signature) Sample No./ Identification Sample No./ Identification Dat Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)
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BJ547

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

	(505) 326-9200
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name: JICARILLA APACHE # 10)z - 7E
Location: Unit or Qtr/Qtr Sec_D Sec_3 T_Z	6N R4W County RIO ARRISA
Land Type: RANGE Date Remediation Started: 4/23/98	Date Completed:6/8/99
Remediation Method: Landfarmed	Approx. cubic yards 230
Composted	
Other	
	Final Closure Sampling:
oth To Groundwater: (pts.)	Sampling Date: 6/7/99 Time: 0930
Distance to an Ephemeral Stream (pts.)	
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:
or Watering Pond (pts.) Wellhead Protection Area: (pts.)	Field Headspace (ppm) $\frac{0.0}{L^{F-2}}$
-	TPH (ppm) 1,380 Method 8015
Distance To SurfaceWater: (pts.)	Other MEUIOUSLY SAMPLED ON 3/30/99
RANKING SCORE (TOTAL POINTS):	LF-1 TPH 5,070 ppm
I HEREBY CERTIFY THAT THE INFORMATION ABOV KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 6/8/99 PRINTED	NAME Buddy D. Shaw
SIGNATURE BURNEY	NAME Buddy D. Shaw AND TITLE Environmental Coordinator
SIGNATURE SIGNATURE	ON SITE PEMEDIATION IS APPROVED IN
AFTER REVIEW OF THE SOIL REMEDIATION INFORMACCORDANCE TO THE JICARILLA APACHE TRIBE P	
APPROVED: YES NO (REASON)	
SIGNED: Lo Ma DAT	E: _ 6 - 18 - 99

	MFIELD, NM 87413 c.a.c. Na: <u>663 2</u> 32-1199
FIELD REPORT: LANDFARM/COMPO	OST PILE CLOSURE VERIFICATION
LOCATION: NAME: JICA, AP. 102 WELL #: 7E	PITS: SEP. BLOW DATE STARIED:
OUAD/UNIT: D SEC: 3 TWP: 26N RNG: 4W P	MINO CNITI RA SINITE ENVIRONMENTAL NV
QTR/FOOTAGE: 11014 NW14 CONTRACTOR:	P45
SOIL REMEDIATION:	ADDROY CUDIC VARDACE. 230
REMEDIATION SYSTEM: LANDFRAM	APPROX. COBIC TARDAGE.
LAND USE: RANGE	LIFT DEP'TH (ft):
FIELD NOTES & REMARKS:	>/ooo'
FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100 0' NEAREST WATER SOURCE:	NEAREST SURFACE WATER
NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD:	5000 PPM SECTION FRACTIONS
MOCD RANKING SCORE: NMUCD THE CEUSORE STORED AND MOD YELL BROWN TO OLIVE MED. GRAY	PLING DEPTHS & C INCHES NO NOTICEABLE STAMPLING PTS. NO HE SOOR DETECTED WIN E FOR LAB ANALYSIS.
DISCOURATION OBSERVED & ANY OF THE	SPARLING PTS. NO HE SÚOR DETECTED WIN E FOR LAB ANALYSIS.
FIELD 418.1	CALCULATIONS
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	(g) ml. FREON DILUTION READING CALC. ppm
	LF-Z COLLECTED 6/7/99
SKETCH/SAMPLE LOCATIONS N	27 - 2 Wolk-1 1
PAD AREA	
CREST OF SLOPE W.H.	OVM RESULTS LAB SAMPLES
1 / / SIDE OF SLOPE /)	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID
	LF-1 0.0 LF-1 (8015) 0945 5,010
170 E SAMPLE	4-2 (3015) 0930 1,380
The state of the s	
38 (1-5)	
F-3	
SHAPE PT. (93'541W) DESIGNATION FROM W.H. LF PERIMETER (6-10)	SCALE
Down PE	
DIRETION	O FT
TRAVEL NOTES: CALLOUT: NA	ONSITE: 3/30/99 - M-RN.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 1 E914 6632 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 04-01-99 03-30-99 03-30-99 03-30-99 04-01-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	9.8	0.2
Diesel Range (C10 - C28)	5,060	0.1
Total Petroleum Hydrocarbons	5,070	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 Apache # 102 - 7 E Landfarm. 5 Pt. Composite.

Decen A. Opence

Stacy W Sendler
Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 2 F466 6693 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 06-08-99 06-07-99 06-08-99 06-08-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	31.1	0.2
Diesel Range (C10 - C28)	1,350	0.1
Total Petroleum Hydrocarbons	1,380	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 Apache #102 - 7E Landfarm.

Alexan L. (Green)

Stacy W Sendler

CHAIN OF CUSTODY RECORD

1	Cool - Ice/Blue Ice	-0615	(505) 632-0615				
7	Received Intact	ghway 64	5796 U.S. Highway 64 Farmington New Mexico 87401				
z							
eipt	Sample Receipt	CHINC	FOVIROTFCH IO				
		Received by: (Signature)	Rece			nature)	Relinquished by: (Signature)
		sived by: (Signature)	Rece		,	nature)	Relinquished by: (Signature)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date ₹.20.99	Received by: (Signature)	Date Time Rece 3/30/19 / 350			nature)	Relinquished by: (Signature)
-							
cool	Plesser.						
	-						
Composite	5 pr. Con	1 4	5016	E914	2460	3/30/99	1-72
		N Con	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
		o. of tainer	4-10	21-78040			ンナル
щ	Remarks	s					Sampler:
	METERS	ANALYSIS / PARAMETERS	Appache # 102 - TE	TICARILLA A		Amoco	BUSGE / Amoco
				Project Location			Client / Project Name

CHAIN OF CUSTODY RECORD

<u></u>	Cool - Ice/Blue Ice	0615	(505) 632-0615				
7	Received Intact 4	hway 64	5796 U.S. Highway 64				
Z							
eipt	Sample Receipt	CHINC	FOVIROTECH IO				
		Received by: (Signature)	Песе			iture)	Relinquished by: (Signature)
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	METERS	ANALYSIS / PARAMETERS	TICARUA APPORT #102-7E	Project Location TICARUA		moco	Client / Project Name SLASS / Amoco