B100-1913K- 600000

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

PIT REMEDIATION AND CLOSURE REPORT

PIT REMEDIATION	I AND CLOSURE REPORT OF GOME DIN	7.
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200	
Address: 200 Amoco Court, Farmington		
Facility or Well Name:	E TRIBAL #151 -1	<u>_</u>
Location: Unit or Qtr/Qtr Sec_\(\infty \) Sec_\(\lore\)		
Pit Type: Separator Dehydrator Other_ Land Type:		
(Attach diagram)	53', width 50', depth 11' _, other	
	S Degrees \times East North of West South \times	
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 Pon (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)	· .
	RANKING SCORE (TOTAL POINTS):	

P.O. BOX	GG ENGINEERING, INC. 87, BLOOMFIELD, NM 87 (505) 632-1199	413 LOCATION NO: <u>BTS84</u> C.O.C. NO:
FIELD REPORT: CLC	SURE VERIFICATION	
QUAD/UNIT: NAME: JICA, AP, TRIBAL 151 QUAD/UNIT: N SEC: 10 TWP: Z6N	RNG: 5W PM: Nm CNTY: RA ST	DATE STARTED: 718198 DATE FINISHED: ENVIRONMENTAL SPECIALIST: NV
OTR/FOOTAGE: 1180 FSL (480 FWL	CONTRACTOR: P & S	
EXCAVATION APPROX. 53 FT. x 5	FT. x FT. DEEP. (CUBIC YARDAGE
DISPOSAL FACILITY: 0N-SITE	REMEDIATION M	FORMATION: DK
LAND USE:	LEADE. 25D	TT SSIE FROM WELLHEAD
TELD NOTES & REMARKS: PIT LO	ICATED APPRUXIMATELY	SURFACE WATER: >1000
NMOCD RANKING SCORE: NMOCD TPH	CLUSHBE STD: \$000 PPM	CHECK DNE : ✓ PIT ABANDONED
NMOCD RANKING SCORE: NMUCD TEA SOIL AND EXCAVATION DESCRIP	TION	STEEL TANK INSTALLED
		FIBERGLASS TANK INSTALLED
OR HE ODOR OFFERVED	KRY TO OUSKY RED IN COLD WIN EXCAUATION, HE ODD	R 'NO APPARENT STAINING. R DETECTED IN WEST
BOTTOM - BEDILOCK / SANDSTONE 40 DOOR IN OU	=) OLIVE GRAY IN COLOR, U	ERY HARD, NO APPARENT
HC OPOR IN OU	m SAMPLE.	
EXCRUMNON RISK ASSESSED MOSTLY BEURSCK TIME SAM	FIELD 418.1 CALCULAT	TONS REON DILUTION READING CALC. ppm
SCALE 0900		
O FT PIT PERIMETER ()		PIT PROFILE
	OVM)
53'	RESULTS SAMPLE FIELD HEADSPAUE PID (ppm)	53' A
· ·	1D PID (ppm) 1 e 7' 0.0	773' 3'I
	2 6 6 0.0	太"
50	4 e 6' 121.1 5 e 11' 0.0	BEDROCK
TO BOWN		JUNIOCK
HEAD STURE		
(3) L		
	LAB SAMPLES	
	SAMPLES SAMPLE ANALYSIS TIME	
	SAMPLE ANALYSIS TIME	
	SAMPLE ANALYSIS TIME	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Apache Tribal 151 #1

Unit N, Sec. 10, T26N, R5W

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 11 feet below grade.

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

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 11 1. 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.
- Topographic information does not indicate off site lateral fluid migration near the earthen pit. 2.
- Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the 3. pit is believed to be under 5 barrels per day.
- Well site located within the non-vulnerable area and is approximately 1.58 miles north of the 4. nearest vulnerable area boundary (Tapacito Creek).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (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 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.

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

RT584. SUBMIT I COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

	Telephone : (505)326-9200	
Operator: AMOCO PRODUCTION COMPANY		
Address: 200 Amoco Court, Farmington, N	M 87401	
Facility or Well Name: JICARINA APACHE	TRIBAL #151-1	
Location: Unit or Qtr/Qtr Sec N Sec N TZEN R SW County RN MIZETRE		
Pit Type: Separator Other		
Land Type.		
Pit Location: Pit dimensions: length	21'_, width 34'_, depth 7'	
	other	
Footage from reference: 14	7'	
Direction from reference:	Degrees East North of	
	West South X	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	
groundwater) 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, rigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	
H .	RANKING SCORE (TOTAL POINTS):	

RJ 584 SEP. PIT Date Remediation Started: _____ Date Completed: ____ 7 10 98 Excavation mediation Method: Insitu Bioremediation _____ eck all appropriate Landfarmed __X_ sections) Other _____ Onsite X Offsite Remediation Location: (i.e. landfarmed onsite. name and location of offsite facility) General Description of Remedial Action: Excavation. BEDROCK BOTTOM. No Yes ____ Depth ____ Groundwater Encountered: Sample location __see Attached Documents Final Pit: Closure Sampling: (if multiple samples, Sample depth 4 (WEST SIDEWALL) attach sample results and diagram of sample Sample date 7/8/98 Sample time 0800 locations and depths) Sample Results (ppb) _____ (ppm) <u>ND</u> Water: Benzene Soil: Benzene (ppm) 0.0504 (ppb) _____ Toluene Total BTEX Field Headspace (ppm) 109.6 (ppb) _____ Ethylbenzene (ppm) _____ Total Xylenes (ppb) _____ **TPH** 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 KNOWLEGE AND BELIEF PRINTED NAME Buddy D. Shaw

Sully D. Shaw

AND TITLE Environmental C DATE Environmental Coordinator AND TITLE __ 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) SIGNED: Ker C Ma DATE: 7-27-98

BLAGG ENGINEERING, P.O. BOX 87, BLOOMFIELD, 1 (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION: NAME: TICH. AP. TRIBAL 151 WELL #: PIT: 1 QUAD/UNIT: N SEC: 10 TWP: ZGO RNG: 500 PM: NM CNT	CATION PAGE No: 1 of 1
LOCATION: NAME: JICA, AP. TRIBAL 151 WELL #: \ PIT: \ QUAD/UNIT: N SEC: 10 TWP: Z60 RNG: 5W PM: NM CNT	7/0/09
QUAD/UNIT: N SEC: 10 TWP: 760 RNG: 5W PM: NM CNT	
OTR/FOOTAGE: 1180' FSL 1480 FWL CONTRACTOR: PAS	DATE FINISHED:
EXCAVATION APPROX. 21 FT. x 34 FT. x 7 FT. D. DISPOSAL FACILITY: 00 - SITE REMEDIAT LAND USE: ROWGE LEASE: TIC151	FORMATION: DIC
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NMOCD RANKING SCORE: O NMOCD THY CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: SOIL CONSIST OF MOSTLY DK. YELL. ORANGE	PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLE TO DR. YEU. BROWN JAND TO BELOW GROPE TO PIT BOTTOM -
MED. ERRY TO BLACK DISCOLORATION WISUGHT FOR SLIGHTLY PLASTIC FIRM TO STIFF, STRONG HE SAMPLE QULY. BOTTOM - LT. TO MED. GRAY BEDROCK (SANDSTON) HE ODOR IN OUM SAMPLE	AC UBOR, ADD SIDEWARE OUM E) UBRY HARD, NO APPARENT
SCALE O FT PIT PERIMETER >> OVM	(g) ml. freon dilution reading calc. ppm PIT PROFILE A
RESULTS SAMPLE FIELD HEADSPACE PID (porm) 1 @ 41	BEDROCK MED. GRAY TO
A G G A 34	BLACK DISCOLDINTION
TO CO A 1 3 U	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO 4 @ 4' D595 6091 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04034-10 07-09-98 07-08-98 07-09-98 07-09-98
Preservative: Condition:	Cool Cool and Intact	Date Analyzed: Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	1.1	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 Tribal #151 - 1 Separator Pit.

Analyst

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 07-09-98 07-08-98 07-09-98 07-09-98 07-09-98 BTEX
	Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	50.4	10.8
o-Xylene	ND	5.2
Total BTEX	50.4	

ND - Parameter not detected at the stated detection limit.

Percent Recovery Parameter Surrogate Recoveries:

> 100 % **Trifluorotoluene** 100 % Bromofluorobenzene

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.

Jicarilla Apache Tribal #151 - 1 Separator Pit. Comments:

tacy W Sendler

CHAIN OF CUSTODY RECORD

Cool - Ice/Blue Ice	2-0615	(505) 632-0615				
Received Intact	ighway 64	5796 U.S. Highway 64				
Y NA						
Sample Receipt	CHINC	FOVIDOTFOH I				
	Received by: (Signature)	Rec			iture)	Relinquished by: (Signature)
	eived by: (Signature)	Rec			ture)	Relinquished by: (Signature)
7.9.98 754	Received by: (Signature)	Date Time Rec			ture)	Relinquished by: (Signature)
-						
					į	
MESELVCOOL	1 1 1	2012	0595	0800	7/8/98	De 4'
		Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
Mainaine	o. of stainers	ò	04084-10			Sampler: \mathcal{MTV}
	ANALYSIS / PARAMETERS	TICARINA APACHE TRIBAL # 151 - 1	TICARINA A		Anoco	Client / Project Name
		TO DESCRIPTION POT	Designat I postion			

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPI

AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200		
Address: 200 Amoco Court, Farmington,	NM 87401		
Facility or Well Name: TICARIUM APACHE TR	1882 #151-1		
Location: Unit or Qtr/Qtr Sec N Sec 10 TZ	62 RSW County RIO ARRISA		
Land Type:			
Date Remediation Started: 7/8/98	Date Completed: 2/2/99		
Remediation Method: Landfarmed	Approx. cubic yards /,500		
Composted			
Other			
oth To Groundwater: (pts.)	Final Closure Sampling:		
Distance to an Ephemeral Stream (pts.)	Sampling Date: Z/1/99 Time: 1110		
Distance to Nearest Lake, Playa, or Watering Pond (pts.) Wellhead Protection Area: (pts.) Distance To SurfaceWater: (pts.)	Sample Results: Field Headspace (ppm)O TPH (ppm)I 8 Method 80\5 Other		
RANKING SCORE (TOTAL POINTS):			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY		
SIGNATURE Bully S. Show			
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: DATE	•		

CLIENT: AMOCO

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199

LOCATION NO: 85584

C.O.C. NO: 6564

DOCATION: NAME TOTAL IS. WELL F: / PITS SEP, BLOW DATE STATED. 2.199 QUAD/UNIT. N SEC. ID TWP. 2GN RNG: SW PM NM CNTY. PA ST. NM OTE/FIDITACE SE/A SW/A CONTRACTOR P+S SOIL REMEDIATION: REMEDIATION SYSTEM: LAND FARM LAND USE: FIELD NOTES & REMARKS: DEPTH OF GROUNDWATER PICE. NAMES WATER SOURCE: 2/000 NEAREST SURFACE WATER 2/000 PRESENTS SOURCE: O NMCCE PARKS SOURCE: O NAME FROM C'-18". TOOK A SPT COMPOSTE SAMPLES FOR LAB ANALUSIS EAMP. TIME SAMPLE ID LAB NO: WERE I (q) TIL. FREON DILUTION READING CALC. PPM FIELD 4181 CALCULATIONS CLOSED SKETCH/SAMPLE LOCATIONS SWETCH/SAMPLE LOCATIONS SWETCH PROCESSES OVM. RESULTS LAB SAMPLES SWETCH PROCESSES SWETCH RESPONSES IMPERIANCE OF THE PROCESSES IMPERIANCE OF TH	FIELD REPORT: LANDFARM/COMP	OST PILE CLOSURE	VERIFICATION
QUAD/UNIT N SEC ID TWP. 26N RNG. S.W. PM.NM. CNTY. PA. STLAM DIE/FECTACE SEA SW/A CONTRACTOR Pts SOIL REMEDIATION: REMEDIATION: REMEDIATION SYSTEM: LAND FARM APPROX CUBIC YARDAGE: / 500 LAND USE: FIELD NOTES & REMARKS: DEPTH (II) GEDUNDVATER: \(\frac{1}{2}\) PM. MACCO YARDAGE: / 500 LIFT DEPTH (II): \(\frac{1}{2}\) L-2 FIELD NOTES & REMARKS: DEPTH (II) GEDUNDVATER: \(\frac{1}{2}\) PM. MACCO YARDAGE: / 500 MACCO PPH PALE YELDWIND SCORE: \(\frac{1}{2}\) NOUCD THE CLOSURE STD: \(\frac{1}{2}\) COOD NEARCS SURFACE WATER \(\frac{2}{2}\) MOCCO THE CLOSURE STD: \(\frac{1}{2}\) COOD PPH PALE YELDWIND SCOUNT GRADO, NON BONESIVE, SUBSTITUTE MOIST, EVEN NO VUILES STOWNING SERSELD. NO HICKOR SETSON DOLUTION READING CALC. DPH CLOSED SAMP. TIME SAMPLE I.D. LAS NO: WERE ST (a) THE FREON DUUTION READING CALC. DPH SKETCH/SAMPLE LOCATIONS COUNTRY THE SAMPLE I.D. LAS NO: WERE ST (a) THE FREON DUUTION READING CALC. DPH SKETCH/SAMPLE LOCATIONS SAMPLE THE SAMPLES SAMPLE THE SAMPLES SAMPLE THE SAMPLES SCALE O PT	LOCATION: NAME: TRIBAL 151 WELL #: 1	PITS: SEP, BLOW	
SOLL REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: // 500 LAND USE: ZAMSE LIFT DEPTH ((U):			ENVIRONMENTAL
REMEDIATION SYSTEM: LAND FARM LAND USE: PANGE LIFT DEPTH (ft): 1-2- FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER >100 NAMED THA CLOSURE STD 5000 PPM PRIE VELLOWISH BROWN CAND, NON CONESIVE, SUGHTLU MOIST, FICM. NO VINIELE STAINING GREEPED, NO HEADON FETTISES AMPLIED DEPTHS REALE FROM L'-18" TOOK AS ST COMPOSITE LANDLE FOR LAR ANGLUSIS. CLOSED FIELD 4:81 CALCULATIONS SAMP, TIME SAMPLE LD LAB NO: WEIG T (g) THE FRON DILUTION READING CALC. POM SKETCH/SAMPLE LOCATIONS OVM RESULTS LAB SAMPLES SOUNCE TO OUT OF THE PROPERTY OF THE	OTP/FOOTAGE: SE/4 SW/4 CONTRACTOR:	P+5	SPECIALIST: PEP
EPTH TO DEPTH (ft): 1-2. FIELD NOTES & REMARKS: LEPTH TO GROUNDWATER \$100. NEAREST WATER SOURCE: \$1000. NEAREST SURFACE WATER: \$1000. NEDCO FAMENING SCURE: 0 NEAREST WATER SOURCE: \$1000. PPM PALE VELICIAINS' BLOWN CAND, NON CONESING, \$1000 PPM PALE VELICIAINS	•		
FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER FIRE* NAMED FAME DIG SCORE* O NAMED THE CLOSURE STD SCORE PAM PALE YELLOWISH SCOWN GAND, NON CONFESIVE, SUIGHTLU MOIST, FICM. NO VISIES STANFILL OF TOOK A SET CONFESIVE, SUIGHTLU MOIST, FICM. REALING FROM 6"-18". TOOK A SET CONFESIVE CAMPLE FOR LAR ANALUSIS. SAMP. TIME SAMPLE LD LAR NO. WEIGHT (g) THE FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS SWEET HEREOGRAPH AREA OVAN RESULTS LAB SAMPLES SAMPLE MULTIS FIFTH O D FT	REMEDIATION SYSTEM: LAND FARM	APPROX. CUBIC Y	ARDAGE: <u>/ 500</u>
DEPTH TO GROUNDWATER 2100. NEAREST WATER SDURCE: 21000. NMDCD RAHAING SCORE: 0 NMDCD TPH CLOSURE STD 5000 PPM PALE VELICIMISH BECOME EARD, NON BOHESING, SUBSTITUTE MOIST, ELEM. NO VISIGE STORMING RESERVED. NO HEADOF EFFECTED SAMPLING DEPTHS. RAMPE EROM L'-18". TOOK A SPT COMPOSITE CAMPLE FOR LAR ANALUSIS CLOSED FIELD 4181 CALCULATIONS FIELD 4181 CALCULATIONS SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS OVM RESULTS LAB SAMPLES SMAPLE FROM DILUTION READING CALC. PPM OVM RESULTS SCALE O FT SCALE O FT	LAND USE: ZANGE	LIFT DEPTH (ft):	15.
PALE YELLOWISH BROWN CAND, NON BOHESIVE, SLIGHTLU MOIST, E.C.M., NO VINIELE STANDING CHEEPED, NO HEODER FETCETED SAMPLUS DEPTHS RANGE FROM 6"-18" TOOK ASST COMPOSITE LAMPLE FOR LAR ANALUSIS CLUSSED FIELD 4181 CALCULATIONS SKETCH/SAMPLE I.D. LAB NO: WEIGHT (g) INL. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS OVM RESULTS LAB SAMPLES SAMPLE INC. O. O. (F-1) (gols) 11/10 18 SCALE O FT			
PALE YELLOWISH BROWN GAND, NON BOHESIVE, SLIGHTLU MOIST, GICM, NO VINIELE STAINING CREETED. NO HEADER FEETESTED SAMPLING DEPTHS RANGE FROM 6"-18". TOOK AS PT COMPOSITE LAMPLE FOR LAR ANALUSIS. FIELD 4181 CALCULATIONS SAMP, TIME SAMPLE I.D. LAB NO: WEIG IT (q) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS CANDERM ACCA. OVM RESULTS SAMPLE MEDISONEE OVM RESULTS SAMPLE MEDISONEE FIELD 4181 CALCULATIONS CALC. ppm OVM RESULTS SAMPLE MEDISONEE FIELD 4181 CALCULATIONS CALC. ppm OVM RESULTS SAMPLE MANAYSIS TIME RESULTS OF THE MEDISONEE OF TT	DEPTH TO GROUNDWATER: >100 . NEAREST WATER SOURCE:	>1000 NEAREST SURFACE	WATER: <u>> 1006 '</u>
PALE YELLOWISH BROWN GAND, NON BOHESIVE, SLIGHTLU MOIST, GICM, NO VINIELE STAINING CREETED. NO HEADER FEETESTED SAMPLING DEPTHS RANGE FROM 6"-18". TOOK AS PT COMPOSITE LAMPLE FOR LAR ANALUSIS. FIELD 4181 CALCULATIONS SAMP, TIME SAMPLE I.D. LAB NO: WEIG IT (q) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS CANDERM ACCA. OVM RESULTS SAMPLE MEDISONEE OVM RESULTS SAMPLE MEDISONEE FIELD 4181 CALCULATIONS CALC. ppm OVM RESULTS SAMPLE MEDISONEE FIELD 4181 CALCULATIONS CALC. ppm OVM RESULTS SAMPLE MANAYSIS TIME RESULTS OF THE MEDISONEE OF TT	NMOCD RANKING SCORE:	5006 PPM	
RANGE FEON 6"-18" TOOK A SOT COMPOSITE CAMPLE FOR LAR BARLUSIS CLOSED FIELD 4:81 CALCULATIONS SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS LAB SAMPLE 1.D. LAB SAMPLES SAMPLE FELD HARDS LAB SAMPLES SAMPLES LAB SAMPLES	PALE VELLOWISH BROWN SAND, NON COHESIVE	5, SLIGHTLY MOIST, FIRM	
FIELD 4181 CALCULATIONS SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT (g) THE FREON DILUTION READING CALC. PRINT SKETCH/SAMPLE LOCATIONS OVM RESULTS SAMPLE TELL MANAYSE TIME RESULTS SCALE O PT	The state of the s	DETECTED SAMPLING DEPT	THS
SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS SAMPLE FRESH MEADINGER ANALYSIS THE RESULTS SAMPLE FRESH MEADINGER O FT SCALE O FT	RANGE FROM 6"-18". TOOK A SPT COMPOS	ITE EAMPLE FOR LAB AT	V4L0273.
FIELD 4181 CALCULATIONS SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS SAMPLE PERD HERGENER (9) FOR PROPERTY (90) ML. SCALE OF T	CLOSED		
SAMP. TIME SAMPLE I.D. LAB NO: WEIG IT (g) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS CANDEAUMAREA OVM RESULTS LAB SAMPLES SAMPLE PROPRIED DEFINE PROPRIED LEF-1 O.O LEF-1 (BOIS) 1/1/O 1.8 SCALE OFT			
SKETCH/SAMPLE LOCATIONS CANDGARM AREA Z OVM RESULTS LAB SAMPLES SAMPLE PRESULTS FELLY HEADSPACE SAMPLE			C CA C DDM
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT	SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	(g) ml. FREON DILOTION READIN	G CALC. ppm
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT			
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT			
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT			
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT			
OVM RESULTS SAMPLE FIELD HEADSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE PHOTOSPACE ID FILE OF THE PHOTOSPACE ID SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS LAB SAMPLES SAMPLE ANALYSIS TIME RESULTS SCALE O FIT	SKETCH/SAMPLE LOCATIONS		
OVM RESULTS SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS DO OFT	LANDEARM		
SAMPLE FIELD HEADSPACE ID SAMPLE ANALYSIS TIME RESULTS ID TO 1.8 SCALE O FT			
SCALE O FT		OVM RESULTS	
SCALE OFT			
SCALE OF FT		UF-1 0.0 LF-1	(8015) 1110 1.8
SCALE O FT	N7 / 11 \1/ \ \ 1		
SCALE O FT			
SCALE OF FT			
SCALE OF FT			
O FT	X X		
O FT	\$	COLLE	
		SCALE	
	9	O FT	
TRAVEL NOTES: CALLOUT//a ONSITE 2 · / · 9 9	TRAVEL NOTES: CALLOUT: A/A	ONSITE: 2 . 1 . 99	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	02-02-99
Laboratory Number:	E596	Date Sampled:	02-01-99
Chain of Custody No:	6564	Date Received:	02-02-99
Sample Matrix:	Soil	Date Extracted:	02-02-99
Preservative:	Cool	Date Analyzed:	02-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	0.6	0.1
Total Petroleum Hydrocarbons	1.8	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 Tribal 151 - 1 Landfarm. 5 Pt. Composite.

Alexan L. Gjenen

Review N. Sende

CHAIN OF CUSTODY RECORD

7	Cool - Ice/Blue Ice	0615	(505) 632-0615				
1	Received Intact	ihway 64 Mexico 87401	5796 U.S. Highway 64 Farmington, New Mexico 87401				
Z							
ceipt	Sample Receipt	CHINC	FOVIROTECH INC				
		Received by: (Signature)	Несе			(eg.	Relinquished by: (Signature)
2-2.99 0842	2.2	Received by: (Signature)	12/99 0842 Rece	0,		Ure)	Relinquished by: (Signature)
2/99 0730	2/2	Received by: (Signature)	Date Time Recei			ure)	Relinquished by (Signature)
-	2						
	0000						
SAMPLE PRESERVE	SAMPLE						
COMPRITE	577. LOH	7	SOIL	E596	1110	2.1.99	CF-1
			Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
		o. of tainer	410	0403410			Kep
Remarks	Ren	S		Client No.			Sampler:
		Naci di Cara	SICARIUA APACHE TRIBAL 151-1	SICARILLA ATA		C	BLAGG/AMOCU
	AMETERS	ANALYSIS / PARAMETERS	AMDFARM	Project Location LANDFALM			Client / Project Name