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

87685 Submit 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

DECEIVED AUG 2 7 1999

PIT REMEDIATION AND CLOSURE REPORT

	OUL GOND DAY
	Telephone: (505) 326-9200
Operator: AMOCO PRODUCTION COMPANY	
Address: 200 Amoco Court, Farmington	n, NM 87401
TICARILLA G	c 155 A #1
Facility of Visit or Otr/Otr Sec. H. Sec. 32	TZ62 R5W County RIO ARRIBA
D. I. Justin Othe	r PRODUCTION TANK
Land Type:	
Pit Location: Pit dimensions: lengt	th_ 35'_, width_ 35'_, depth_ 14'
I It Docation.	c, other
Footage from reference:	,
Direction from reference:	46 Degrees East North
Micetion nom rever	West South
	Less than 50 feet (20 points)
Depth To Groundwater: (Vertical distance from	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
contaminants to seasonal high water elevation of	Gleater than 100 tees
groundwater)	Less than 100 feet (10 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than	Greater than 100 feet (0 points)
ten feet in width)	ond Less than 100 feet (10 points)
Distance to Nearest Lake, Playa, or Watering Po	Greater than 100 feet (0 points)
livestock or wildlife watering ponds)	Yes (20 points)
Wellhead Protection Area: (Less than 200 feet from a private	No (0 points)
domestic water source, or: less than 1000 feet from all other water sources)	
Distance To SurfaceWater:	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet (0 points)
irrigation canals and ditches)	
11	RANKING SCORE (TOTAL POINTS):

			8J685	prod. Tan	K PIT
Date Remediation Sta	rted:		te Completed	l:/3	0/98
Remediation Method:	Excavation <u>×</u>	App	rox. cubic ya	rds60	20
Sheck all appropriate	Landfarmed \nearrow	Insit	nı Bioremedia	tion	
sections)	Other				
Remediation Locations (i.e. landfarmed onsite, name and location of offsite facility)			<u> </u>		
General Description of	of Remedial Action: <u>Exc</u>	avation. 8	EIROCK	001107: 13	
Groundwater Encount	tered: No 🔀	Yes Do	epth		
Final Pit: Closure Sampling: (if multiple samples,	Sample location see At	tached Docur	ments		
attach sample results	Sample depth7'	(WORTH SIE	SEWALL)		
and diagram of sample locations and depths)	Sample date	198	Sample ti	me	<u></u>
	Sample Results				
п	Soil: Benzene	(ppm)	_ Water:	Benzene	(ppb)
	Total BTEX	(ppm)		Toluene	(ppb)
		(ppm) 0.0		Ethylbenzene	(ppb)
		(ppm) <u>73.9</u>		Total Xylenes	(ppb)
Groundwater Sample	:: Yes No	(If yes,	attach sample	e results)	
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION THAT THE INFORMATION THE	ON ABOVE IS T	RUE AND CO	MPLETE TO	THE BEST OF MY
DATE	/// 30/48, PR	INTED NAME _	Buddy D.	Shaw	
SIGNATURE Sud	My D. Shaw.	AND TITLE	Environme	ental Coole	linator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFO A APACHE TRIBE PIT CLO	ORMATION, PIT OSURE ORDINA!	CLOSURE IS NCE.	S APPROVED	IN ACCORDANCI
APPROVED: YES	NO (REASON	n)			. •
SIGNED:	C Memle				

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: <u>6315</u>			
FIELD REPORT: CLOSURE VERIFICATION				
QUAD/UNIT: H SEC: 32 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM	DATE STARTED: U/24/98 DATE FINISHED: ENVIRONMENTAL SPECIALIST:			
QTR/FOOTAGE: 1800 FAL 850 FEL CONTRACTOR: P+5				
EXCAVATION APPROX. 35 FT. x 35 FT. x 17 FT. DEEP. CUBIC	YARDAGE: 600			
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOL LAND USE: LANGE LEASE: 7/C /55 FOI	RMATION: My			
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 175' FT. A	E WATER: 3/000			
DEPTH TO GROUNDWATER: >/00' NEAREST WATER SOURCE: >/000' NEAREST SURFACE NMOCD RANKING SCORE: 5 NMOCD TPH CLOSURE STD: 5000 PPM	PIT ABANDONED			
SOIL AND EXCAVATION DESCRIPTION:	_ STEEL TANK INSTALLED			
	FIBERGLASS TANK INSTALLED			
SIDEMANS - MOSTLY OK. YELL, DRANGE SAND, NON COHESTI FIRM SMALL ISOMPTED STAWING KNSES OBSE SIDEMALL (APPROX. 9-11' BEION GRADE) ONLY N	RUED ON NORTH			
SIDEWALL (APPROX. 9-11' BELOW GRADE) ONLY NO DETECTED WIND EXCAUATION OR IN A	LY OF THE DUM			
SAMPLES.				
BOTOM - BEDROCK (SANDSTONE), DLIVE TO MED. GRAY IN COWR, WERY HARD, NO APPRRENT HE ODOK IN DUM SAMPLE.				
NO APPERENT HE GOOD IN OUM SAMPLE				
BEUROCK (CLOSED)				
TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREON D				
	ILUTION READING CALC. ppm			
SCALE 0945	ILUTION READING CALC. ppm			
SCALE 0945	ILUTION READING CALC. ppm			
SCALE 0945 0 FT	PROFILE			
SCALE 0945 0 FT PIT PERIMETER N OVM DESILITS				
SCALE 0945 0 FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE A				
O FT PIT PERIMETER N OVM RESULTS A	PROFILE			
SCALE 0945 OFT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 7' 0.0 2 @ 7' 0.0 3 @ 7' 0.0	PROFILE			
SCALE 0945 O FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE 10 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 4 @ 8' 0.0 5 @ 14' 0.0	PROFILE			
SCALE 0945 OFT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppn) 1 @ 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 5 @ 14' 0.0	PROFILE 35' A' BEDWCK			
SCALE 0945 O FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE 10 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 4 @ 8' 0.0 5 @ 14' 0.0	PROFILE 35' A'			
SCALE O FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm.) 1 @ 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 5 @ 14' 0.0 LAB SAMPLES	PROFILE 35' A' BEDWCK			
SCALE O FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppn) 1 @ 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 5 @ 14' 0.0 16' The state of the	PROFILE 35' A' BEDWCK			
SCALE O FT PIT PERIMETER N OVM RESULTS SAMPLE ID OVM RESULTS PID (ppm) 1 @ 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 1 @ 8' 0.0 5 @ 14' 0.0 A LAB SAMPLES SAMPLE ANALYSIS TIME	PROFILE 35' A' BEDWCK			
SCALE O FT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 7' 0.0 2 @ 7' 0.0 3 @ 7' 0.0 4 @ 8' 0.0 5 @ 14' 0.0 16' SAMPLE SAMPLES SAMPLE ANALYSIS TIME De 7' 7AM (4/8 (109 95)	PROFILE 35' A' BEDWCK			



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Olt and	Blagg / AMOCO	Project #:	04034-10
Client:		Date Reported:	11-30-98
Sample ID:	1 @ 7'	Date Sampled:	11-24-98
Laboratory Number:	E224	Date Received:	11-30-98
Chain of Custody No:	6315	Date Extracted:	11-30-98
Sample Matrix:	Soil	Date Analyzed:	11-30-98
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact	Alialysis Needed.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

oncentration Limit (mg/kg) (mg/kg)			Det.
(mg/kg)		oncentration	Limit
	Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

73.9

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla GC 155 A #1 Production Tank Pit.

Deur L. Oejenean

Stacy W Sendler

CHAIN OF CUSTODY RECORD

_	Cool - Ice/Blue Ice /	0615	(505) 632-0615				
1	Received Intact L	hway 64	5796 U.S. Highway 64 Earmington New Mexico 87401				
z		-					
eipt .	Sample Receipt	CHINC	FOVIROTECH IO				
		Received by: (Signature)	Receiv			nature)	Relinquished by: (Signature)
		Received by: (Signature)	Recen			nature) (Relinquished by: (Signature)
9.55 0235	//.30xY	Received by: (Signature)	Date Time Receiv			nature)	Relinquished by: (Signature)
_							
				7		01/62/1	
COOL	RESPON -	<u> </u>		ار م ا	2460	2460 26/11/1) e J'
			Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
		o. of tainer	-10	04034-10			ノエベ
र्वेड	Remarks			Client No.			1
	THE LEGISLA		: 155 A #1	JICARUA GC		Amoco	BLAGG /
	METERS	PIT ANALYSIS / BARAMETERS	Project Location Ploons 74NK	Project Location /			Client / Project Name

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

BJ685 SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

			20
Operator: AMOCO PRODUCTION COMPANY		(505)326-920	
Address: 200 Amoco Court, Farmington, N			
Facility or Well Name: JICAZILUT 6C 1	55 A #1		
Location: Unit or Qtr/Qtr Sec_ + Sec_ 32 T_26			
Pit Type: Separator Dehydrator Other			
Land Type:RANGE			
	z.', width ^{Z-} , '	, depth19\	
(Attach diagram) Reference: wellhead X,	other		
Footage from reference: 160			
Direction from reference:	Degrees East	North	
	X West		
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	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)	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)	<u></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 No	(20 points) (0 points) _	<u> </u>
Distance To SurfaceWater: (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)	<i>O</i> :
·····································	RANKING SCORE (TOTAL	POINTS):	0_

	BTG85 SEP. PIT		
Date Remediation St Remediation Method: (Check all appropriate sections)	Excavation Approx. cubic yards 200 Landfarmed Insitu Bioremediation		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility) General Description	of Remedial Action: Excavation. BEDEOCH BOTTOM. RISK ASSESSED.		
Groundwater Encour	itered: No X Yes Depth		
Final Pit: Closure Sampling: (if multiple samples,	Sample locationsee Attached Documents		
attach sample results and diagram of sample locations and depths)	Sample depth 13' (NORTH SIDEWALL) Sample date 11/30/98 Sample time 1245		
	Soil: Benzene (ppm) 1.030 Water: Benzene (ppb) Total BTEX (ppm) 19.670 Toluene (ppb) Field Headspace (ppm) 525 Ethylbenzene (ppb) TPH (ppm) 7,580 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 KNOWLEGE AND BELIEF

SIGNATURE Sully J. Show AND TITLE Environmental Coordinator

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) KA Attached

SIGNED: KE C Maul DATE: \$ 12-28-98

z3068

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 6413
FIELD REPORT: CLOSURE VERIFICATION	PAGE No:/ of _/_ DATE STARTED:/30/48
QUAD/UNIT: H SEC: 32 TWP: 26N RNG: 5W PM: NM CNTY: R9 ST.NM	DATE FINISHED: ENVIRONMENTAL NV SPECIALIST:
EXCAVATION APPROX. 21 FT. x 27 FT. x 19 FT. DEEP. CUBIC	YARDAGE: 200
DISPOSAL FACILITY: ON SITE REMEDIATION METHOLAND USE: LEASE: JLC 155 FOI	RMATION: MV/CR
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FT. S DEPTH TO GROUNDWATER: >100 / NEAREST WATER SOURCE: >1000 / NEAREST SURFACE TO SURFACE STATEMENT OF THE PROPERTY O	FROM WELLHEAD. E WATER: >10 00 ' CHECK ONE:
SDIL AND EXCAVATION DESCRIPTION:	_ PIT ABANDONED _ STEEL TANK INSTALLED _ FIBERGLASS TANK INSTALLED
FIRM MED. GRAY DECLURATION OBSERVED FIRM MED. GRAY DECULORATION OBSERVED ABOVE TOP OF BEDROCK (BET. 13-14' BE DISCOLORATION APPARENTLY ASSOCIATED W STAIL DETECTED WIN EXCAUATION, WEST SIDEWALL CONTECTED FROM BEDROCK.	SUGHTLY MOIST, IN LET. THICKNESS WOUNDEDOOR NING HE GOOR DUTH SAMPLE
BOHOM - BEDROCK (SHALE) OLIVE TO DR. GROY IN COLO. PETECTED IN OLM SAMPLE.	R, HARD, HE OVOR
BEOROCK BOTTOM TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON D	
SCALE O FT PIT PERIMETER PIT	PROFILE
OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ /3' 5 25 2 @ /3' 797	١ ٦
A B A A B A A B A B A B A B A B A B A B	Is.
LAB SAMPLES SAMPLE ANALYSIS TIME (D@13 TPH BT X 1245	(sk)
TPH - FALED BIEX - PASSED	
TRAVEL NOTES: CALLOUT: ONSITE:	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla GC 155 A #1

Unit H, Sec. 32, T26N, R5W

Separator Pit Mesa Verde

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 19 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 shale bedrock located 19 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale 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 0.21 miles southeast of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to Gonzales Mesa 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 shale 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 @ 13' E238 6413 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 12-02-98 11-30-98 12-02-98 12-02-98 12-02-98 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3,510	0.2
Diesel Range (C10 - C28)	4,070	0.1
Total Petroleum Hydrocarbons	7,580	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 GC 155 A #1 Separator Pit.

Analyst . (djenec.)

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	Blagg / AMOCO 1 @ 13' E238 6413 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 12-02-98 11-30-98 12-02-98 12-02-98 12-02-98 BTEX
•			/ -

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	1,030 1,520 1,800 10,300 5,020	8.8 8.4 7.6 10.8 5.2
Total BTEX	19,670	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 GC 155 A #1 Separator Pit.

Analyst P. Queen

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

~	Project Location SEPARATOR	SEPARATOR PIT			ANALYSIS / PARAMETERS	METERS		
DURGG/ HMOCO	JicARILYA 6	6c 155 A #1	-					
Sampler:		·	rs \	<u>/</u>)_		Ą	Remarks	
NEW Y	01-7.5070	01-t-	o. of taine	<u>15</u> で×				
Sample No./ Sample Sample	e Lab Number	Sample	Con	80				
/ / /		(22)	_			Parral	١	(000)
(1) C 13 (1/30/97) (27.3	7		-	,				
Relinquished by (Signature)		Date Time Rec	Received by: (Signature)	ature)		.	Date /> .2.54	Time
Relinquished by: (Signature)			eived by: (Sign	ature)				
Relinquished by: (Signature)		Rec	Received by: (Signature)	ature)				
Per COC'S 6+12-6416	7	FOVIROTECH IO	CH T	ದ		Sample Receipt	Receipt	
							~	z
		5796 U.S. Highway 64	ghway 64 Mexico 874	501		Received Intact	7	
		(505) 632-0615	2-0615	•		Cool - ice/Blue ice	7	

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

perator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200										
idress: 200 Amoco Court, Farmington, NM 87401										
cility or Well Name: 51 CABILLA GAS COM. 155 A 1										
ocation: Unit or Qtr/Qtr Sec H Sec 32 T 26N R 5N County RIO ARRIBA										
and Type: Range										
te Remediation Started: // 24 98 Date Completed:										
stance to an Ephemeral Stream (pts.) o Sampling Date: Sampling Dat										
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE 6/16/99										
SIGNATURE Bully J. Shaw AND TITLE Environmental Coordinator										
TER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN CCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. PPROVED: YES NO (REASON)										
GNED: DATE:										

	•	•						
CLIENT: AMOCO	BLAGG P.O. BOX (, NM 8		LOCATIO C.O.		85685 7084 7075
FIELD REPORT:	LANDFAR	M/COMF	POST PI	LE CLO	SURE	VERIF	TICAT	rion
LOCATION: NAME: GAS CON	4 155 A F				T. ALAM	DATE START	HED:	
QUAD/UNIT: H SEC: 3 DIR/FOOTAGE: ≤E/4 N				NII: KA S	1. 88	ENVIRONMEI SPECIALIST:	NTAL E	EP
SOIL REMEDIATION: REMEDIATION SYS LAND USE:	5 4.4.	1EM		Szs PPROX. C				>
						<u></u>		
FIELD NOTES & REMAR	1		> /2.00	NE ADEC:	r subsacs	· VATEB. 3	> 1000	, -
DEPTH TO GROUNDWATER: >/					I SURFACE	. WATER: _		
NMOCD RANKING SCORE:					em.			
OK. YELLOWISH BROW LARGE AREA OF ST	- AINIINIA DREFR	VED IN LA	MAFARM	AREAS # 7	1+3/5	EE SILE	TCH BE	ELOW)
HE ALAR DETECTES) IN SAMPLE !	F75 (5) +(5)	I SAMPLIA	JG DEMAS	s Rapids	E FROM	61-10	o ^^
COLLECTED A SPT.	COMPUSITE S	RNILL FO	DE LAS AN	JALYS 15 .				
CLOSED								
			.1 CALCULAT					
SAMP. TIME S	AMPLE I.D. LAB I	No: WEIGHT	(g) mL. FR	EON DILUTIO	N READING	G CALC. p	opm	
					_			
							-	
SKETCH/SAMPI	LE LOCATION	IS		!F-Z 5	20m21 EA	ر جم	zh5/	99
			-	(7-2)	in the co		5// 5/	,
0 .								
LF AREA			OVM R	ESULTS		LAB SA	AMPL	ES
DE AREA STONE	54' 109	s'	SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
2	11/1/	LF AREA	LF-1	51.7	LF-1	(8015)	1220	6,790
B'NAO'W	36 3 ////		9					
2 11-10			8		LF.2	(8015)	1330	4300
120° 5 9° E	The				27.12	(8012)	. 520	730
135'	STAIN	IED Eas						
LF AREA	(6.)		SCAL)	E TT				
TRAVEL NOTES: CALLOU	T: <u>NA</u>		ONSITE:	69	99			

 $z = z_{m_1}(\alpha) - \mathbf{V}_{m_2}(\alpha)$



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO LF - 1 F483 7075 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	403410 06-10-99 06-09-99 06-10-99 06-10-99 8015 TPH
Condition:	Cool and Intact	Analysis Requested:	8015 IPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	292	0.2
Diesel Range (C10 - C28)	6,500	0.1
Total Petroleum Hydrocarbons	6,790	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 Gas Com. 155 - A1 Landfarm. 5 Pt. Composite.

Aleen L. Oferen

Stacy W Sendler



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 F518 7084 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 06-16-99 06-15-99 06-16-99 06-16-99 8015 TPH
--	--	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	225	0.2
Diesel Range (C10 - C28)	4,080	0.1
Total Petroleum Hydrocarbons	4,300	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 Gas Com 155 - A 1 Landfarm. 5 Pt. Composite.

Alexand. aguer

Review Stacy W Sendler

CHAIN OF CUSTODY RECORD

	7	Cool - Ice/Blue Ice	0615	(505) 632-0615				
	2	Received Intact	hway 64 Jexico 87401	5796 U.S. Highway 64 Farmington, New Mexico 87401				
Z Z	≺ z							
	zeipt	Sample Receipt	CHINC	FOVIROTECH IO				
			Received by: (Signature)	Recei			ure)	Relinquished by: (Signature)
			Received by: (Signature)	Aece			ure)	Relinquished by: (Signature)
715	38	0.10	Received by: (Signature)	Date Time Received: 1:15 Λ			jre)	Relinquished (Signature)
	-							
	\	Cooc						
316	RE	SAMPLE PREPIE						
Q	nsei	SA. COMBSTE	-	5016	F949	/220	6997 1220	UF: 1
			N Con	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
	Remarks	Rem	o. of tainers	£. 403410	Client/Nid			Sampler:
		AMETERS	ANALYSIS / PARAMETERS	Project Location LANDFALM STCARILLAGAS COM. 155. A 1	Project Location LANDFALLY STCARILLA GAS COM. 155.		000	Client / Project Name BAGG/AMOCO

(505) 632-0615	5796 U.S. Highway 64 Farmington, New Mexico 8		ENVIROTECH IN	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by (Signature) Date Time Receive 6/16-99 7:26						F-2 6:1599 1330 F518 501L	Sample No./ Sample Sample Lab Number Sample Sample Cab Number Cab	[EP 403410		BLAGE/AMOCO SUBBILLA GASCOM. 155- A 1	Client / Project Name Project Location LAUDFABY
15	vay 64 xico 87401		HINC.	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)						_	N Con	>>1	`	NACTOR AND A DESCRIPTION OF THE PROPERTY OF TH	ANALYSIS / BABANETEDS
Cool - Ice/Blue Ice	Received Intact	Y Z NA	Sample Receipt			Date Time 6:16-49 725	-			Cool	SAMPLE PRESENC-	SPT. COMPOSITE			Remarks	Since	BAMETERS