District III. Aztec, NM 87410

FEB 0 5 1009

State of New Mexico 1000 Rio Brazos Rd Energy, Minerals and Natural Resources Department Submit 1 copy to Appropriate District and 1 copy to ... Santa Fe Office

### **OIL CONSERVATION DIVISION**

2040 S. PACHECO Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPOR

HUNDVES !			Mil DE		<del></del>
Operator: Apache Corporation \ MW Petr	oleum	Telephone:	505-325 <sub>-</sub>	0318	္ပါဝ
Address: 2855 Southside River Road, St	uite A, Farmington, N	IM 87401		Figure 2	
Facility or Well Name:	Jic Apache Tribal A	118 #5			
Location: Unit or Qtr/Qtr Sec	A Sec 25	T 26 N R 3W	County	Rio Arriba	
Pit Type: Separator:	Dehydrator	Other Tank Di	rain		
Land Type: Jicarilla Tribal			<del></del>		
Beginning Pit Dimensions:	Length 2	5' Width	<b>25'</b> Dep	oth2'	
Pit Location: Ending Pit Dimensions: (Attach diagram)	Length 3	Width	<b>30'</b> Dep	oth6'	
Reference:	Wellhead XX	Other			
Footage from reference:	20	00'			
Direction from reference:	208	Degrees	East	North _	
		<u> </u>	West	South _	XX
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of		Less than 50 feet 50 feet to 99 feet Greater than 100 f	eet	(20 points) (10 points) ( 0 points)	
groundwater)  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
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 fee 200 feet to 1000 fo Greater than 1000	eet	(20 points) (10 points) ( 0 points)	
imgation cariais and ditories)		RANKING SCOR	E (TOTAL P	OINTS)	0

ate Remediation Start	ed:	7/21/97		Date Comple	ted:	7/22/97
emediation Method:		Excavation _	XXX	Approx. cubic	yards	133
Check all appropriate ections)	Landfarmed	_	XX	Insitu Biorem	ediation	
		Other				
temediation Location:  i.e. landfarmed onsite, ame and location of iffsite facility)		Onsite	XX	Offsite		
General Description of	Remedial Action:		Excavate	pit to 6' , too	k PID readings.	Spread soil on
location for	remediation. Took	soil sampl	es. Hit Be	drock, conto	ur pit, spread r	emediated
soil on loca						
<u> </u>						
Groundwater Encoun	tered:	No	X	Yes_	ı	Depth
Final Pit: Closure Sampling:	Sample location		5 point con	nposite sample t	aken from pit side	walls and pit bottom
(in multiple samples, attach sample results		center.				
and diagram of sample	Sample depth	6'	8 to 10" i	nto pit sidew	alls 10" into pi	t bottom
locations and depths)	Sample Date Sample results		7/22/9	7	Sample Time	9:00 AM
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	3.258		
	TPH			ND		
Groundwater Sample	<b>:</b> :	Ye	s	No	(If y	es attach sample results)
I HEREBY CERTIFY KNOWLEDGE AND E		ATION ABO	OVE IS TRI	JE AND COM	PLETE TO THE	BEST OF MY
DATE	December 1, 199	98	PRINTE	D NAME	Jeff Cross	
SIGNATURE	Austur	>	AND TI	ΓLE	Project Manag	jer

### 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

### PIT REMEDIATION AND CLOSURE REPORT

Operator:	M W	PETROLEUM			_Telephone		505-32	25-0318		
Address:	2855	SOUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMING	GTON	N.M.	87401-7	947	
Facility or We	ell Nar	me:	A 118#5							
Location:	Unit	or Qtr/Qtr Sec	A	SEC 25	T 26N	R 3	sw	County	RIO ARRIBA	<u>.                                    </u>
Pit Type:	Sepa	arator:	_Dehydrato	r	_Other			TANK [	DRAIN	
Land Type:		JIC. TRIB	AL							
Pit Location:		Pit Dimensions:	Length	30'	Width	١	30'	De	pth 6'	
(Attach diagr	am)	Reference:	Wellhead	XXX	_Other					
		Footage from re	ference:	200'		_				
		Direction from r	eference:	208	_Degrees			_East	North _	
							X	_West	South _	XX
Denth To G	round	lwater			Less than	50 fe	eet		(20 points)	
Depth To Groundwater: (vertical distance from				50 feet to				(10 points)		
contaminants to		al			Greater than 100 feet (0 points)					0
high water elevat groundwater)	tion of									
Distance to	an Fi	phemeral Strear	n:		Less than	100	feet		(10 points)_	
II .	nt dry	wash greater the			Greater than 100 feet (0 points)					
Distance to	Near	est Lake, Playa,	or Waterin	a Pond:	Less than	100	feet		(10 points)	
		est Lake, I laya, kes, playas and			Greater th			t	( 0 points)	0
		e watering ponds								
Wellhead P	rotect	tion Area:					Ye	s	(20 points)_	
(Less than 2 domestic wa	:00 fee	et from a private ource, or less that other water sour					N	0	( 0 points)	0
Distance To	o Surf	face Water:			Less than	า 100	feet		(20 points)	
Distance To Surface Water: (Horizontal distance to perennial					100 feet to 1000 feet (10 points)					
lakes, ponds	lakes, ponds, rivers, streams, creeks,				Greater than 1000 feet (0 points)					0
irrigation ca	nals a	and ditches)			RANKING SCORE (TOTAL POINTS)					0

Date Remediation Starte	ed: 7/21/97	<u> </u>	_Date Compl	eted:	1-22-97						
Remediation Method:	Excavation	xxx	_Approx. cub	ic yards	133						
(Check all appropriate sections)	Landfarmed	xx	Insitu Biorei	mediation							
•	Other		-								
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite	e <u>XX</u>	_Offsite _								
General Description of	Remedial Action: Ex	cavate pit	to 6',took Pl	D readings. sprea	d soil on						
Conter Pit spread Renediated soil on Cocation.											
くのの tをいて Groundwater Encounte	red: N	O XXX	Yes	De	pth	-					
Closure Sampling: (in multiple samples,	Sample location	5 point co	mposite take	n from pit sidewalls	s and pit bottor	m center.					
attach sample results and diagram of sample	Sample depth &	8" to 10" i	nto pit side w	alls ,10" into pit bo	ttom.						
locations and depths) Sample Da Sample res	ite	7/22/97		Sample Time	9:00AM						
Soil:	Benzene	(ppm)	ND	Water: Benzer	ie (ppb)	NA					
	Total BTEX	(ppm)	ND	Toluen	e (ppb)	NA					
	Field Headspace	(ppm)	3.258	Ethylbenze	ne (ppb)	NA					
	TPH	(ppm)	ND	Total Xylen	es (ppb)	NA					
Groundwater Sample:	Ye	es	_ No	XXX (If yes	attach sample	results)					
I HEREBY CERTIFY TH KNOWLEDGE AND BE		ION ABOV	E IS TRUE A	ND COMPLETE T	O THE BEST	OF MY					
DATE9-1	4-98	PRINTE	NAME	JEFF	CROSS						
DATE 9-1	ff lion	_AND TIT	LE	PROJ	ECT MANAGE	:R					
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.											
APPROVED: YES	N	0	(REASON	)							
SIGNED:	-C Mam		DATE:	11~13-	78						



### United States Department of the Interior

### **BUREAU OF INDIAN AFFAIRS**

Albuquerque Area Office P.O. Box 26567 Albuquerque, New Mexico 87125-6567

NUG = 6

380 - Branch of Natural Resources Services Jicarilla 97-198

JUL 3 1 1997

Mr. Jeff Cross Apache Corporation 304 N. Behrend Farmington, New Mexico 87401

Dear Mr. Cross:

We have reviewed the cultural resources survey report dated July 17, 1997, and entitled, "Cultural Resource Survey: Archaeological Survey of Two Pit Remediations on Jicarilla Apache Tribal Lands." This was prepared by Mr. Gifford Velarde, Velarde Energy Service, and is numbered Report CR-96-520. The report deals with pit remediations for Jicarilla Apache A118#3 and A118#5. We understand that you also have a copy of this document.

The report, dealing with Jicarilla Apache Tribal lands, states that no surface evidence of potentially significant cultural resources was encountered during the requisite field inspection. The project location is sufficiently small and in a location where we do not expect that it will impact any areas of traditional religious or cultural importance to the Jicarilla Apache Tribe. Therefore, we have determined that no effect on any National Register listed or eligible cultural resources will result from the proposed action. We have notified the New Mexico State Historic Preservation Officer of our determination and provided a copy of this report for their files.

The proposed undertakings are in compliance with the provisions of Section 106 of the National Historic Preservation Act and may proceed under the following stipulations:

- All land-altering activities will be confined to the areas surveyed for cultural resources.
- If subterranean cultural resources are encountered, all landaltering activities will be halted and the Area Archeologist notified immediately.

-6 d

These stipulations must be followed or project suspensions will be issued. The responsibility of project sponsors is to notify subcontractors of the project boundaries and stipulations. Any change in project boundaries will require additional survey and repetition of the compliance procedures.

This letter only serves as notification that National Historic Preservation Act Section 106 compliance has been completed for the subject project. It does not constitute approval of right-of-way or concurrence in the proposed activities by the Bureau of Indian Affairs (BIA). This compliance is one of several legal requirements which must be accomplished before BIA approval of rights-of-way, easements, or other land use contracts for land modifying projects.

If you have any questions, please contact Dr. Bruce G. Harrill, Area Archeologist, Branch of Natural Resources Services, at (505) 766-3374.

Sincerely,

Assistant Area Director

### VELARDE ENERGY SERVICE Dulce, New Mexico Cultural Resources Survey Report

JH 2 3 1997

Archaeological Survey of Two pit remediation on Cultural Resource Survey: Jicarilla Apache Tribal Lands.

Preparer: Gifford Velarde, Archaeologist, Velarde Energy Service, P. O. Box 919, Dulce, New Mexico 87528

Survey Archaeologist: Same as preparer.

Other Parties: Jeff Cross and Don Shipley, Apache Corporation

Report Number: CR-97-520

Date of Report: 17 July 97

Date of Survey: 17 July 97

Jeff Cross, Apache Corporation, 304 Behrend Sponsor Name and Address: , Farmington, New Mexico, 87401.

PROJECT #1 INFORMATION

Jicarilla Apache A118 #3 Project Name/Designation:

Remediate production pit Description of Undertaking:

Under Bureau of Indian Affairs Jurisdiction Nature of Federal Involvement:

Size of Project Area: A rectangular area 150 feet in length and 150 feet in width (150' x 150') for a total of .51 acre (Figure 1).

PROJECT LOCATION

County: Rio Arriba State: New Mexico

Reservation: Jicarilla Apache

Ojito, N.M., 1963, 7.5, (1:24000) USGS Quadrangle:

The proposed project is located in the NE 1/4 of the NE 1/4 Legal Description:

of Section 25, Township 26 North, Range 3 West,

Zone 13; 312,710 mE; 4,037,100 mN (center of project) UTM Coordinates:

Distance/Direction from local landmarks/geographic features: The project is 1.5 miles east of J-45 on the southern Jicarilla.

### PROJECT #2 INFORMATION

Project Name/Designation: Jicarilla Apache A118 #5

Description of Undertaking: Remediate production pit

Nature of Federal Involvement: Under Bureau of Indian Affairs Jurisdiction

Size of Project Area: An rectangular shaped area 100 feet in length and 100 feet in width for a total of 0.22 acre (Figure 1).

### PROJECT LOCATION

State: New Mexico County: Rio Arriba

Reservation: Jicarilla Apache

USGS Quadrangle: Ojito, N.M., 1963, 7.5, (1:24000)

Legal Description: The proposed project is located in the NE 1/4 of the NW 1/4

of Section 25, Township 26 North, Range 3 West.

UTM Coordinates: Zone 13; 311,945 mE; 4,036,980 mN (center of project)

Distance/Direction from local landmarks/geographic features: J-45 is found approximately 1 mile to the west.

### **ENVIRONMENTAL SETTING**

Topographic Situation: Near the top of a rolling terrain is the setting for the project.

Drainage: The drainage from this area is south.

Geology and Soils: The soil has been disturbed by energy development.

Vegetation Communities and Local Flora: The flora backdrop consists of rabbitbrush, oak, Indian ricegrass, mountain muhly, juniper and pinon.

Elevation (feet): 7550 feet (map).

### SURVEY

Dimensions & Acreage: Same as project area.

Survey Method: The area was surveyed by walking a series of 4-5 meter linear transects.

Previous Surveys: A well inspection was done in 1984 or 1985 but never built.

Previous Disturbance: A production pit is present.

### CULTURAL RESOURCES

Sites: None

Isolated Occurrences: Two greyware sherds were recorded as an isolated occurrence.

Isolated Artifacts: None

### RECOMMENDATIONS

Archaeological clearance is recommended for Jicarilla Apache A118 #5.

Attachments: Project Location Map: Figure 1

### REFERENCES

Museum of New Mexico

1986 Archaeological Records Management System. Laboratory of

Anthropology, Santa Fe. New Mexico.

### U S Department of the Interior Bureau of Land Management



Report Numbers (BLM) Survey: Mitigation/Study:

Cultural Resource Identification Record Isolated Artifact Form

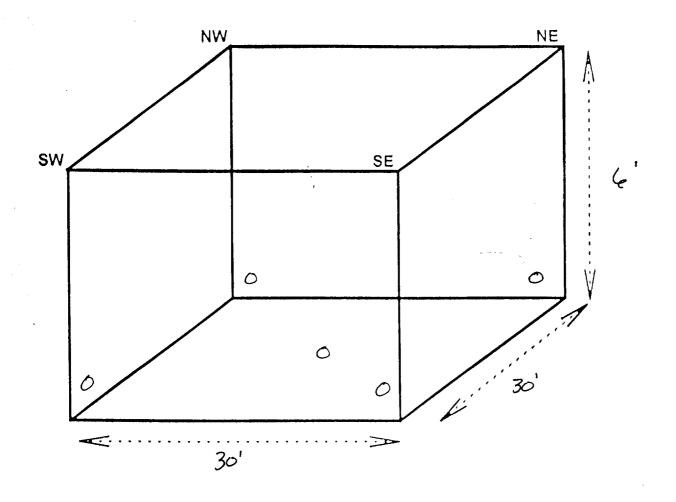
I Ro	eference Data
1)	ID# (BLM) 2) PU ID (BLM) 3) JAAS # <u>I.o.</u> -620
	Location S W 1/4 N & 1/4 N W 1/4, Sec. 25, T 26 N, R 3 W Map O S I TO N . M
	UTM Zone 13 Easting 3/1920 Northing 4036 960
	Geographic Coordinates: Lat. NorthLong. West
7)	# Associated Form (ES 8) Artifact Collected Yes No V
9)	Graphic File ID (BLM)10) Accessoin/Cat. ID (BLM)
11)	Depository Institution VES
	City DaLCE
	State N.MEX
	ivironmental Data
	Habitat Zone (BLM) TRANSISTIONAL Vegetation CAK, Judian ricegras
	Major Soil Class SAND 4) Arable Land/Soils NO
	Elevation 7550 6) Land Form hill slope
/)	Water Source P I F
	Sleeper (nayon)
-	
8)	Additional Comments
III Cı	ıltural Data
1)	Cultural Affiliation Anasazi 2) Time Circa 950-1275 BC/AD
	Feature / Artifact Type:
	2 SHERD
	EREY WARE
4)	Inferred Function:
	CULINARY WARF
IV Na	urrative
Field	Observer/Recorder/Date (ELARI) + (UFLARDE 7.17.97 replaces Form ADO 6231 - 4

### M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

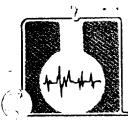
LOCATION

_OCATION A118 # 5 Review and Approval OCD-BLM									
PIT CC	HINT	1				EPO Represe	ntative		
-11 00	JUNI	I	-			Date of Revie			
								-	
	START:	7/21/97	7		FINISH:	7/22/97		<u> </u>	
DIMENS						147			CHADE
	W	L L	D			30'	30'	D 6'	CU YDS 133
Pit 1	25'	25'	2'	Pit 1		30	30	-	100
Pit 2				Pit 2				1	
Pit 3		D# 4 @ 6!	D# 2 @		·		Pit 1 @ 6'	Pit 2 @	Pit 3 @
***********	Cantan	Pit 1 @ 6'	Pit 2 @	Pit 3 @		Center	10		
	Center	10			P	NW Corner	6		
P	NW Corner	6		<del></del>	1	NE Corner	0.01	1	
i n	NE Corner SW Corner	0.01	<del>- </del>	<del>                                     </del>	b	SW Corner	0.25		
D	SE Corner	0.25 0.03		<del> </del>	1	SE Corner	0.03		
NOTES		1 0.03		L.,		32 00.1101	1	1	
NOTES	7/21/07 STA	RT ΕΧΩΔΙ/ΔΤΙ	ION ON PIT	EXCAVATE TO	6', PID R	EADINGS GO	OD. NO STAI	NING OR ODO	R.
	7/22/97 FXC	AVATE PIT SI	DE WALLS	NO STAINING.	TOOK S	OIL SAMPLES	HIT BEDRO	OCK @ 6'.	
	IIZZIBI EACI	TAIL FIL O	DE TYALLO,	TO OTALINO.	. 551. 5				
				· · · · · · · · · · · · · · · · · · ·					
	···· <u>·</u>								
			<u> </u>						
<del></del>			· · · · · · · · · · · · · · · · · · ·						
				****					
	SAMP DATE	7/22/9	7						
		Pit 1 @ 6'	Pit 2 @	Pit 3 @	ANALYS	SIS RESULTS		PER LAB	Assaigai
	Center	10	1		PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	6			NO				
- 1	NE Corner	0.01	1		1	ND	ND	J.C.	7/28/97
0	SW Corner	0.25			2				
	SE Corner	0.03			3				
		•		RE-SAMPLE	OR CEL	L(S) SAMPLE			
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALY	SIS RESULTS		PER LAB	
	Center	1	1		PIT	TPH	BETEX	WITNESS	DATE
ρ	NW Corner				NO				
1	NE Corner				1				
D	SW Corner				2				
	SE Corner				3				
	»			RE-SAMPLE	OR CEL	L(S) SAMPLE			
DATE:		Pit 1 @	Pit 2 @	Pit 3 @		SIS RESULTS		PER LAB	
	Center	<del>                                     </del>		<del>                                     </del>	PIT	TPH	BETEX	WITNESS	DATE
ρ	NW Corner	1			NO				
	NE Corner	1			1				
Ď	SW Corner				2				
	SE Corner				3	1			
	MOL COINE								

Jicarilla Apache Tribal EPO/OCD/BLM



WELL NAME  A 118 #5  SAMPLE DATE  7-22-97  NOTES  4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT  SIDEWALL  1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER					= SAMPLE AREA				
NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT  SIDEWALL	WELL NAM	1E	A118 #5		_				
SIDEWALL	SAMPLE D	ATE	7-22-97		-				
SIDEWALL	NOTES	4.50.010			NTO DIT				
	NOTES .	4 POIN	I COMPOSITE SAMI	PLE TAKEN 8" TO 10" I	NIOPII				
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER		SIDEV	/ALL						
		1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER							
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	•		**************************************		and the second s				
	•	<del></del>							
	•								



### **ASSAIGAI ANALYTICAL** LABORATORIES, INC.

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated: July 31, 1997 13:37

### CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORK ID

WORKORDER #

: 9707235

: JICARILLA PIT CLOSURES

: APA01 CLIENT CODE

DATE RECEIVED : 07/25/97

Page: 1

ATTN: JEFF CROSS

Lab ID: 9707235-01A

Sample ID: A118 #5 PIT SIDES

Collected: 07/22/97 09:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND	mg/kg	0.0050	100	07/28/97	SBTXME180
	ND	mg/kg	0.0050	100	07/28/97	SBTXME180
	ND	mg/kg	0.0050	100	07/28/97	SBTXME180
	ND	mg/kg	0.010	100	07/28/97	SBTXME180
	ND	mg/kg	0.0050	100	07/28/97	SBTXME180

Law ID: 9707235-01B

Sample ID: A118 #5 PIT SIDES

Collected: 07/22/97 09:00:00

Matrix: SOIL

Sample ID. ALLO HO LLI GLOLD						
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	07/30/97	SDRO44

**Lab ID:** 9707235-02A

Sample ID: A118 #5 PIT BOTTOM

Collected: 07/22/97 09:15:00

Matrix: SOIL

Sample ID: Allo #5 Fil	B011011					
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.0050 0.010 0.0050	500 500 500 500 500	07/29/97 07/29/97 07/29/97 07/29/97 07/29/97	SBTXME180 SBTXME180 SBTXME180 SBTXME180 SBTXME180



Page: 2

ID: 9707235-02B Sample ID: A118 #5 PIT BOTTOM

**Collected:** 07/22/97 09:15:00 **Matrix:** SOIL

<b>.</b>						
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	07/30/97	SDRO44

President

### **WORKORDER COMMENTS**

DATE :

: 07/31/97

WORKORDER:

### DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific
 detection limit.

D F = Sample "dilution factor"

 $\overline{\text{NT}}$  = Analyte "not tested" per client request.

B = Analyte was also detected in laboratory method QC blank.

E = Analyte concentration (result) is an estimated value or

exceeds analysis calibration range.

LIMIT = The minimum amount of the analyte that AAL can detect

utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by

Dilution Factor (D\_F) to obtain the sample specific

Detection Limit.

### REPORT COMMENTS

# Chain of Custndy Record

Page

Project Manager / Contact <u>JOE手 Cross</u>

Client Apache Corporation

3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000

ALBUQUERQUE, NEW MEXICO 8773 (505) 345-8964

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 1910 N. BIG. SPRING MIDLAND, TEXAS 79705 (915) 570-1116

**新山村** -Analysis Required. After analysis, samples are to be Received by: Signature Сотрапу C3/57/2 S.054 Time × Preservation Temp. Chemical 377 Telephone No. (505) 774-6643 Relinquished by 8 Company Reason Fax No. (505) 774-6624 Type / Size of Container 402 Glass Samplers: (Signature) Sample Type <u>`</u>\$ 2.00 Project Name / Number JICARILLA PIT CLOSURES 21.6 Received by: Company Ē Signature. Reason 7-22-97 Oate City/State/ZipEarmington, NM 87401 128-97 00:6 A 119 #5- 7.4 BOTTEM Date Sample Number / Location A118 #57.45.des Address 304 N. Behrend Contract / Purchase Order / Quote (010) 140 ache 12 A < -Relinquished by: 3 FRACTION NUMBER ... ...., ....<u>}</u> į 1 1 į Signature

LABORATORY

Stored over 30 days (additional fee)

Returned to customer

Disposed of (additional fee)

Comments:

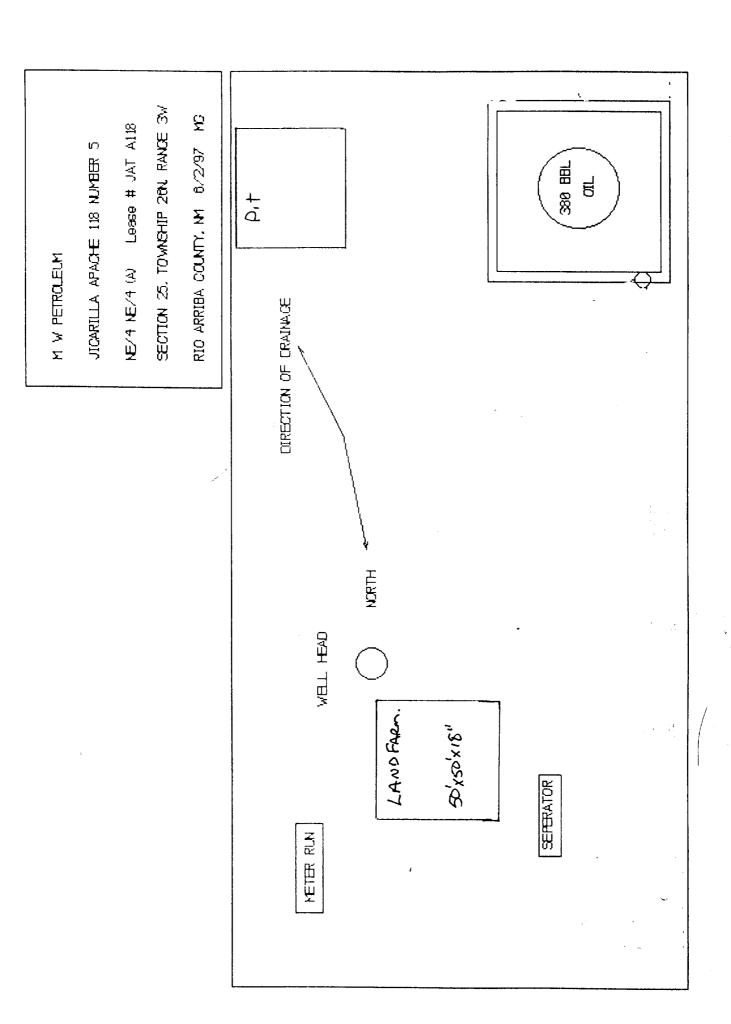
Method of Shipment:

Company Primed

Special instructions:

Shipment No.

Stored (30 days max)



### 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**

Operator: MWPE	I W PETROLUEM			Telephone	e	505-325-0318		
Address:	2855 SOUTHSIE	DE RIV	ER ROAD	/SUITE A	/FARMING	<u>TON, N.M. ₹</u>	87401-7947	, 
Facility or Well Name:	JAT /	A118#	!5					
Location: Unit or C	Qtr/Qtr Sec/	Α :	SEC 25	T 26N	R 3W	_County	RIO ARRI	BA
Land Type	JIC. TRIBAL			<del></del>				
Date Remediation Sta	Date Remediation Started: 7/21/97				mpleted:		6/10/98	
Remediation Method:			XXX	•	cubic yards		133	
	Composted			•	-			
	Other	•		REMEDIA	ATED SOIL	TO BE SPI	READ ON L	OCATION.
Depth to Groundwater: (pts) 0 Final Closure Sampling							<del></del>	
Distance to an Ephemeral Stream:			0	Sampling	g Date:	6/10/98	_Time:	9:50AM
Distance to Nearest Lake, Playa,			0	Sample F	Results:			
or Watering Pond: Wellhead Protection A	7 rea-	(pts)		Field Heads	space (ppm)	0	_	
Distance To Surface \		(pts)		ТРН	(ppm	n) <u>2300</u>	_Method	M8015
		(his)		Oth	er BTEX \S	SW846 , 80	20A (NI	)
RANKING SCORE (T	•		0			=		25.407
I HEREBY CERTIFY KNOWLEDGE AND E		MATIC	N ABOVĒ	IS TRUE	AND COMF	LETE TO	IHE BEST (	OF MY
DATE:	9/14/98		PRINTED	NAME		JEFF CF	ROSS	
SIGNATURE	Jeff own		TITLE		PROJEC	T MANAG	ER	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.								
APPROVED: Y	ES_X_	NO	)	_(REASC	)N)			
SIGNED:	-CMa		DATE:		1-13-	-98		_

## M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	JAT A118 #5		-	
* AMOUNT OF SOIL UNDER	GOING REMEDIATION	133	Yds.	
		SampDATE	TPH	BTEX
CELL No. 1		6/10/98	2300	ND
DIMENSIONS(LxWxH)	50' X 50' X 18"			
CELL LOCATION (dir. from well he	ead NORTH			
* DATE BEGAN: 7/21/97				
DATE TERMINATED (TPH <5,000	) ppm/BTEX< 50 ppm/Benzene < 10 ppm)	6/10/98	3	
CELL No. 2		SampDATE	TPH	BTEX
,				
DIMENSIONS(LxWxH)			1	
CELL LOCATION (dir. from well he	ead			
* DATE BEGAN:				
DATE TERMINATED (TPH <5,000	ppm/BTEX< 50 ppm/Benzene < 10 ppm)		<del></del>	_
		SampDATE	TPH	BTEX
CELL No. 3				
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well h	ead			ļ
* DATE BEGAN:				
DATE TERMINATED (TPH <5,000	0 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			-
REMEDIATION RECORD: (Date,	Treatment, Tilling)			
	0 FERTILIZER,WATER,PLOW AND TILL	SOIL.		
8/13/97 PLOW AND TILL SOIL.				
9/23/97 PLOW AND TILL SOIL. 4/22/98 PLOW SOIL.				
4/24/98 TILL SOIL.				
5/19/98 WATER AND PLOW SOIL				
5/20/98 TILL SOIL.				<del></del>

From excavation reports.

50' x 50' x 18" JAT A 118 #5 6/10/98 SAMPLE DATE: DIMENSIONS: WELL NAME:

= SAMPLE AREA

<b>(</b> 0	
	) ALL SAMPLES TAKEN 10" TO 12" INTO CELL.
•	NOTES: ALL SAMPLE

CONTOSITE SAUPLE



### ASSAIGAI ANALYTICAL LABORATORIES, INC.

JUN 2.5 15

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820 127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

APACHE CORPORATION
attn: JEFF CROSS
2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947

	* explanation of codes
В	analyte detected in Method Blank
E	result is estimated
н	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
-9	see footnote

Assaigai Analytical Laboratories, Inc.

### Certificate of Analysis

Client: APACHE CORPORATION
Project: 9806174 JICARILLA

Milliam P. Biava: President of Assargai Analytical Vaboratories, Inc.

Client Sample ID	JAT A1	18 #5	CEU JL		mple SOIL atrix	•			Sample Collected	06/10/98 09:50:00
			•			Dilution	Detection		_	Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	<u>Date</u>
			SW846-8020 Volatiles							
9806174-01A	X98325	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.544-5	06/15/98
	X98325	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.544-5	
	X98325	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.544-5	
	X98325		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.544-5	
	X98325	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.544-5	
			SW846-8015 Modified TPH							
9806174-01B	X98321		Diesel Range Organics	2300	mg / Kg	25	25		XG.1998.555-14	06/20/98

\*\*\* Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. \*\*\*







Client Apache Corporation

Project Manager / Contact Jeff Cross

Page

## Chain of Custody Record

7300 JEFFERSON, N.E. ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000

Remarks

Stored over 30 days (add														hipment No
Disposed of (additional : Stored (30 days max)									Comments:			-	Ï	ethod of Shipment:
After analysis, samples are to be:	After analysi	-								$\dashv$				68901
Company	17/07				Company	7.0			Company		8:23A	919	siche Co	×
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				The state of	4	4 oz glase	4 02	7i0S	8.9	10-6-98 8:50 Spil	,	JAT 41/8 #5	JAT A	D
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	<b>W</b>	114										er / Quote	chase Ord	Contract / Purchase Order / Quote
			1 1	Mides		Samplers: (Signature) flower	rs: (Signa	Sample					/ Number_	Project Name / Number
			- 1	,		Fax No. (505) 774-6624	. (505)		947	NM 87401-7947	NM 87	city/State/Zip Farmington,_	p Farm	City / State / Z
Analysis Required			[	43	4-66	505) 77	one No. 🗘	ATeleph	Ste.	RD,	River	Southside River RD, Ste. ATelephone No. (505) 774-6643		Address 2855

tee)