District III

State of New Mexico State of New Mexico

Thorac Brezos Rd

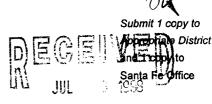
Energy, Minerals and Natural Resources Department

AZIOGUNY 67418 GAS INSPECTOR

DEC 1 7 1998

OIL CONSERVATION DIVISION

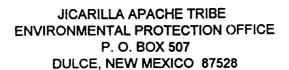
2040 S. PACHECO Santa Fe, New Mexico 87505



PIT REMEDIATION AND CLOSURE REPORT

Operator:	Apache Corpo	ration			Telephone	:	505-325-0	318	
Address:	2855 Southsid	e River Road, S	uite A, Farm	ington, NN	87401				
Facility or \	Well Name:		Satellite "I	D"					
Location:	Unit or Qtr/Qtr	Sec	N	Sec 25	T 25 N	R 4W	County	Rio Arriba	
Pit Type:	Separator:	xxx	_Dehydrator	<u> </u>	Other				
Land Type	Jic	arilla Tribal							
	Beginning	Pit Dimensions:	Length	30'	Width	3	0' Depth	4'	
Pit Location:	•	Pit Dimensions:	Length	30'	Width	3	0' Depth	20'	
(Attach dia	igram) Reference	: :	Wellhead		Other	Pipeline I	Header Syste	<u>m</u>	
ı	Footage fr	rom reference:		40'	ı	_			
	Direction f	from reference:		308	Degrees		East	North	xx
						x	o West	South _	
_	Groundwater:	<u> </u>			Less than			(20 points)	
(vertical distri contaminant: high water e groundwater)	s to seasonal evation of				50 feet to 9 Greater th		et	(10 points) _	0
Wellhead (Less than domestic v	Protection Area 200 feet from a water source, or; from all other wa	ı private ; less than					Yes No	(20 points) (0 points)	0
(Horizonta lakes, por	To Surface Wat al distance to per ds, rivers, strear	rennial ms, creeks,			Less than 200 feet to Greater th	1000 fee		(20 points) (10 points) (0 points)	0
irrigation o	anals and ditche	∋ S)			RANKING SCORE (TOTAL POINTS)				0

Date Remediation Sta	rted:	6/2/97		_Date Comp	oleted:	7/9/97
Remediation Method:		Excavation	XXX	_Approx. cu	bic yards	500
(Check all appropriate sections)	Landfarmed		xx	_Insitu Biore	emediation	
		Other				
Remediation Location	1:	Onsite	XX	Offsite	Soil was moved to	JAT 125 #16 and #12
(i.e. landfarmed onsite, name and location of offsite facility)				-	ted space on location	
General Description o	of Remedial Action:		Excavate	pit to 20', S	tart to excavate si	des, stopped all
activity due	e to Archeological fi	nd. Took c	ore sampl	es on N\W\I	E sides of pit, dow	n to 25'.
See attache	e reports. Remediat	ed soil to b	e put back	k in pit cell	#1 & #2	
				•		
Groundwater Encoun	tered:	No	хх	<u>Yes</u>	De	9jothi
Final Pit:	Sample location		Core sampli	ing taken 5' ou	ıtside pit walls, to a de	rith of 25'
Closure Sampling: (in multiple samples,		Composite	e sample t	aken every	5', to a depth of 2	5'
attach sarnple results and diagram of sample	Sample depth		Every 5' to	o a depth o	f 25'	
locations and depths)	Sample Date Sample results		7/9/97	-	Sample Time	10:30 A.M.
	Benzene		(ppm)	ND	_	
	Total BTEX		(ppm)	ND	_	
	Field Headspace		(ppm)	111.24	-	
	TPH			4400	<u>.</u>	
Groundwater Sample	:	Yes		_ No	XX (If yes	attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABOV	/E IS TRUI	E AND COM	IPLETE TO THE B	EST OF MY
DATE	June 24, 1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	ff Cum		AND TITL	.Œ	Project Manager	



Submi: 1 copy to Natural Resource Dept. and Oil & Gas Administration

PIT REMEDIATION AND CLOSURE REPORT

Operator:	мw	/ PETROLEUM			Telephone	e	505-32	25-0318			
Address:	304	N. BEHREND,	FARMING	TON, N.M.	84701					_	
Facility or We	ell Na	me:	SATELLIT	re "D"			 -				
Location:	Unit	or Qtr/Qtr Sec	N	SEC 25_	T 25N	R 4	W	County	RIO A	RRIB	Α
Pit Type:	Sepa	xxx arator:	Dehydrato	or	_Other						
Land Type:		JIC. TRIBA	AL								
Pit Location: (Attach diagra	am)	Pit Dimensions:	Lengti Wellhead		Wicith	n	30'	_	th 20		systen.
		Footage from ref		308	40 ¹			East	North		хх
		Direction from re	rerence.		_Degrees		x		of South	_	
Depth To Gr	round	lwater:			Less than	50 fe	et		(20 f×	oints)	
(vertical distance					50 feet to	99 fe	et			oints)	
contaminants to		al			Greater th	nan 10	00 feet		(0 po	ints) _	0
high water elevati groundwater)	ion of										
Distance to	an Eı	phemeral Stream	1:		Less than	100 f	feet		(10 px	oints)_	
	nt dry	wash greater tha			Greater th	nan 10	00 feet		(0 po	oints) _	0
Distance to	Near	est Lake, Playa, (or Waterin	g Pond:	Less than					oints)_	
		es, playas and e watering ponds)			Greater th	nan 10	00 feet	į	(0 po	oints) _	0
 Wellhead Pr	rotect	tion Area:					Yes	6	(20 f×	oints)	
		et from a private					No			oints) _	0
B		urce, or less than other water source									
Distance To	Surf	ace Water:			Less than	100 1	feet			oints)_	
		ce to perennial			100 feet to 1000 feet (10 poi				-		
•		rs, streams, creek	s,		Greater than 1000 feet (0 points)					oints) _	0
irrigation can	iais ai	na anches)			RANKING SCORE (TOTAL POINTS)						0

Date Remediati	on Start	ed: (6/2/97	Date Comp	oleted:		7/9/97				
Remediat⊪on M	ethod:	Excav	ation XXX	— Approx. cu	bic yards		500				
(Check all appro sections)	priate	Landfa	rmed XX	Insitu Biore	emediation						
		Othe	r								
Remediation Lo	ocation:	(On s ite	Offsite	SOIL WAS	MOVED T	O JAT 125	# 16			
(i.e. landfarmed name and location offsite facility)					& 125 # 12,DUE TO LIMITED SPACE ON LOCAT						
General Descrip	TOPPED DES OF Rem	ALL ACTIVITY PIT, DOWN TO cdiates soil	DUE TO ARCH	HEOLOGICAL TACHED REF BAc に ル クロ	FIND.TOO PORTS.	K CORE S	AMPLES O	N N\W\E			
Final Pit: Closure Sampli (in multiple sam	ples,	Sample location OF 2	CORES	SAMPLING TA							
attach sample re and diagram of s		Sample depth	EVERY	5' TO A DEPI	ΓΗ OF 25'.	<u></u>					
B.	epths) ample Da ample res		7/9/	97	Sample Tir	Time 10:30Al					
So	oil:	Benzene	(ppm)	ND	Water:	Benzene	(ppb)	NA NA			
		Total BTEX	(ppm)	ND		Toluene	(ppb)	NA NA			
		Field Headspac	e (ppm)	111.24	_ Eth	ylbenzene	(ppb)	NA			
		TPH	(ppm)	4400	Tota	al Xylenes	(ppb)	NA			
Groundwater S	ample:		Yes	No	XXX	(If yes atta	ich sample i	results)			
I HEREBY CER KNOWLEDGE		AT THE INFORI	MATION ABOV	/E IS TRUE A	ND COMPI	LETE TO 1	HE BEST (OF MY			
DATE	6.	8.98	PRINTE	D NAME		JEFF CR	oss	-			
SIGNATURE_		eff los	AND TI	TLE		PROJEC1	MANAGE	₹			
	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	Spra	yod _	4 3/0	secl			
SIGNED:	LOW	Ma	0	DATE:	6/2	3/98					

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United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Albuquerque Area Office P.O. Box 26567

Albuquerque, New Mexico 87125-6567

380 - Branch of Natural Resources Services Jicarilla 97-144



JUN 1 8 1997

Memorandum

To:

Superintendent, Jicarilla Apache Agency

Attention: Law Enforcement, Mr. Jose Cherino

From:

Assistant Area Director

Subject:

Completion of Investigation of Human Remains for Apache

Corporation

Mr. Peter J. McKenna, Archeologist, has prepared a report: covering the investigation of human remains found at the Apache Corporation's satellite testing station between Cañada de los Ojitos and Cañada Largo on Jicarilla Apache lands. We have attached a copy of this report entitled, "Investigation of Human Remains at Apache Corporation's Satellite Test Station, Jicarilla Apache Lands, New Mexico."

During soil remediation of a blow-pit at it's testing station, Apache Corporation workers discovered human remains while excavating the blow-pit with heavy equipment. Various agencies, including Bureau offices in Dulce and Albuquerque, were notified of the discovery. Inspection of the site by Albuquerque Area Office archeological staff on June 5, 1997, revealed the remains to be archeological and not of medical or legal significance. The human remains and archeological context were documented and left in place.

Although final disposition of these remains lies with Jicarilla Tribal Council, verbal recommendations on treatment to an Apache Corporation representative will be in effect, unless other specific instructions are received from the Council. To avoid further disturbance to the site and the burial, the Apache Corporation will cease excavation and remove no more dirt on the south portion of the pit. As the pit is fully dug, this should pose no problem for the Corporation. When soil tests are complete, the pit and burial should be reburied and covered as planned. 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 action is in compliance with the provisions of Section 106 of the National Historic Preservation Act and may proceed under the following stipulations:

- 1. No further excavation will be done at the south end of the blow-pit at the satellite test station.
- 2. The human remains will be left in place, shall not be disturbed further, and shall be reburied with the rest of the pit when soil-tests and environmental clearances are complete.
- 3. No further land-altering activity shall take place at the satellite test station without the presence of a qualified archeological monitor.

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.

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

(SGD) DOMALD E. WHITEMED

Assistant Area Director

Attachment

cc: NMSHPO w/report, attn: Dave Cushman
Apache Corporation, attn: Mr. Stan Phillips

Bureau of Indian Affairs Albuquerque Area Office Human Remains Investigation

Investigation of Human Remains at Apache Corporation's Satellite Test Station, Jicarilla Apache Lands, New Mexico

Preparer: Peter J. McKenna, Archeologist, Albuquerque Area Office, Bureau of Indian Affairs

Archeologist: Same as preparer.

Other Parties: Mr. Bill Julian, Apache Corporation

Date of Report: June 11, 1997

Date of Investigation: June 5, 1997

PROJECT INFORMATION

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

Description of Investigation: Investigation consisted of examining the remains of a single individual located during cyclical blow-pit remediation at the testing station. The remains were located with a backhoe during excavation of the pit area. A narrow shelf on the south side of the pit contained human skeletal material at approximately 110cm below surface.

Size of Project Area: The area of the pit, approximately 11x9m, was examined for additional human or archeological material. Some ash-stained soil with light trash, associated with the interment, were located atop the southeast corner of the pit. The burial and associated archeological remains covered an area approximately 100 by 75cm.

PROJECT LOCATION

State: New Mexico County: Rio Arriba

Reservation: Jicarilla Apache

USGS Quadrangle: Billy Rice Canyon NM, 1963, 7.5' (1:24000)

Legal Description: T 25N R 4W Sec. 36 NE, NE, NW

U'TM Coordinates: Zone 13 302290E 4026190N

Distance/Direction from local landmarks/geographic features: The testing station is located on the north side of a very narrow ridge-divide separating blue-line canyon tributaries to the Cañada Largo system on the south and the Cañon de los Ojitos drainage system to the north. The canyon south of the testing system is one canyon west of Cottonwood Canyon and two canyons west of Billy Rice Canyon.

ENVIRONMENTAL SETTING

Topographic Situation: Site is located on a small interdrainage point just north of the crown of a major ridge crest dividing the Cañon de los Ojitos from the Cañada Larga (Largo Canyon) drainage systems.

Drainage: Unnamed tributaries north and northwest to Cañon de los Ojitos

Geology and Soils: Sandstone with aeolian to tan-sandy loams

Vegetation Communities and Local Flora: Piñon-juniper woodland featuring single-seed juniper, big sage, rabbit brush, gambel oak, mountain mahogany and grasses of grama, western wheat, cheat, needle-n-thread and rice grass

Elevation: 7285 ft.

INVESTIGATION

Burial 1 was reported to various agencies, including the BIA, by Mr. Stan Phillips of the Apache Corporation. A determination of cultural association and antiquity was sought in order to provide recommendations on whether the individual represented a case of medical-legal significance, or whether management under Section 106 of the National Historic Preservation Act and the Ficarilla Apache Tribal Resolution regarding the treatment and disposition of human remains was indicated. No Federal funding action is involved.

The remains were examined in the field without removal or osteometrics. Context, archeological associations and major osteological landmarks were noted.

Burial 1: Burial 1 consisted of a single individual represented by a skull and right tibia. The skull is oriented to the south and faces, roughly, northeast. No mandible was seen but may be still be buried near the skull. The proximal shaft and partial head of the tibia was partially exposed along the deeper section of pit cut just north of the skull. A visual inventory of remains is shown on Figure 2.

Inspection of Burial 1 suggested a young adult as skull sutures were fairly well defined. The tibial epiphysis was missing and may not have been fused, but given the proximity of the element to the deep pit excavation, removal with a blade is likely. Upper dentition was fully developed and showed the distinctive attrition associated with prehistoric maize diet processed with stone grist equipment (metates and manos). The skull lacked the extreme lambdo-occipital deformation common to later (post AD 1000) Anasazi The skull and populations. tibia were located in a matrix of ash-stained, archeological soil with a few associated mon-osseous artifacts.

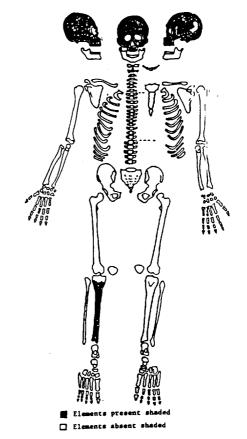


Figure 2. Visual inventory of Burial 1 (black elements present).

In summary, the remains are prehistoric. Although the lack of diagnostic material

precludes more exact cultural-temporal placement, based on the condition of the skull, the individual is likely associated with the Rosa phase of the Anasazi sequence sometime between A.D. 600 and 1000.

Associated Sites: The burial is part of an archeological complex as shown by soil staining and associated artifacts. The full extent of the site is unknown, given the depth of deposits and extent of pit remediation. A charred pinyon cone, unidentifiable vegetal remains, a heat-altered flake and large quartzite cobble were noted as artifact in archeological fill both adjacent to the skull and in backdirt atop the pit's margin. No ceramics were located. A schematic of the burial, extent of associated deposits and blow-pit area are shown on Figure 3.

LA117876: Prehistoric trash deposit, possible camp or pithouse with burial. Ash-charcoal stained soils between 60-100±cm below surface. No features defined. Rosa phase???, A.D. 600-950.

Figure 3. Schematic of LA117876 Showing Burial 1, Archeological Deposits and Soil Remediation Pit. A) Site Schematic, B) Position of Burial in Pit, C) Profile of Deposits.

RECOMMENDATIONS

The investigation of Apache Corporation's discovery situation involving human remains has established the remains are prehistoric and not a matter of medical or legal significance.

In keeping with the Albuquerque Area Office position regarding the Native American Graves Repatriation Act (NAGPRA) and the Jicarilla Tribal Resolution outlining tribal policy on human remains located on tribal lands, the disposition of Burial 1 is a matter for the Jicarilla Tribal Council to ultimately decide. However, pending the Council's decision we recommend, and have so verbally advised Apache Corporation, to leave the remains as they are, to excavate no further at the south end of the pit, to complete their soils tests and refill the pit, covering the individual, when their remediation work is done.

We recommend the work on the satellite test station be completed with the following stipulations:

- 1. No further excavation will be done at the south end of the blow-pit at the satellite test station.
- 2. The human remains will be left in place, shall not be further disturbed, and shall be reburied with the rest of the pit when soil-tests of the pit are complete.
- 3. No further land-altering activity shall take place at the satellite test station without the presence of a qualified archeological monitor.

Attachments: Project Location Map: Figure 1

Site Forms: LA117876

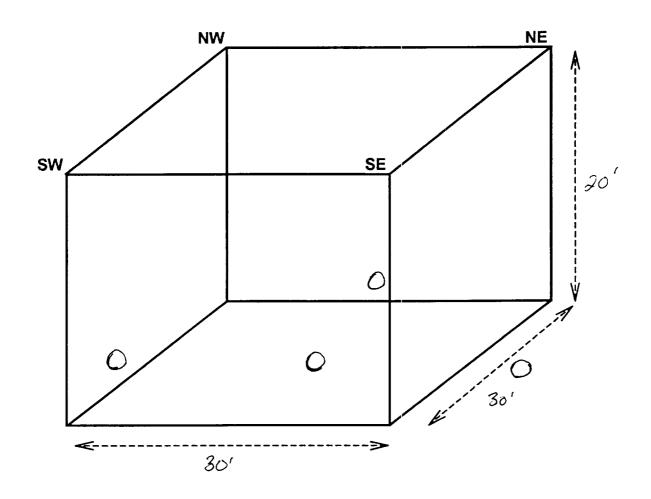


Figure 1. Location of Apache Corp.'s Satellite Test Station and LA117876, Jicarilla Apache Lands, New Mexico.

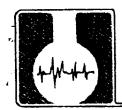
M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

		Jicarilla Apache Tribal EPO/OCD/BLM
LOCATION	SATELLITE "D"	Review and Approval
		OCD-BLM
PIT COUNT	1	EPO Representative
		Date of Review

					Excavati					
IMENS		START:	6/2/97		FINISH:		7/9/97			1
	W	L	D				W	L	D	CU YD:
Pit 1	30'	30'	4'	Pit 1			30'	30'	20'	500
Pit 2				Pit 2					<u> </u>	
Pit 3				Pit 3		1				
		Pit 1 @	Pit 2 @	Pit 3 @				Pit 1 @	Pit 2 @	Pit 3 @
	Center			1		Cen	ter			
	NW Corner			-	P	3——	Corner	-	 	
⋙	NE Corner	1		-	1	3—	Corner		 	
-	SW Corner	 			a		Corner	-	 	
	SE Corner	1			1 "	·	Corner			
OTES:	OL COME	1		<u></u>		<u> </u>	Come	1	<u></u>	<u></u>
	SIDIOT STAE	T EYCAVAT	ION ON BIT L	EAVY STAINING	3 TO 10'					
				E TO ARCHEO		EINIC	SEE DE	DORTS		
				ONE , BY REQU						
				RTH,EAST,WES					TH OF 26'	
	SAMPLING \	WAS WITNES	SSED BY K.C	MANWELL OF	THE JIC.	APA	CHE TRI	BE E.P.O.		
										
				SOIL SAMPI	LING					
ATE:	7/9/97	Pit 1 @	Pit 2 @			SIS R	ESULTS		PER LAB	ASSAIGA
	7/9/97 Center	Pit 1 @	Pit 2 @	SOIL SAMP	ANALYS	SIS R		I BETEX		
9	Center	Pit 1 @	Pit 2 @		ANALYS PIT		TPH	BETEX SIDE/RTM	WITNESS	DATE
P I	Center NW Corner	Pit 1 @	Pit 2 @		ANALYS PIT NO	SI	TPH DE\BTM	SIDE\BTM	WITNESS	DATE
PI	Center NW Corner NE Corner	Pit 1 @	Pit 2 @		ANALYS PIT NO 1	SI	TPH		WITNESS	DATE
# - O	Center NW Corner NE Corner SW Corner	Pit 1 @	Pit 2 @		ANALYS PIT NO 1 2	SI	TPH DE\BTM	SIDE\BTM	WITNESS	DATE
P - 0	Center NW Corner NE Corner	Pit 1 @	Pit 2 @	Pit 3 @	PIT NO 1 2 3	SI	TPH DE\BTM 4400	SIDE\BTM	WITNESS	DATE
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ATE: ATE:	Center NW Corner SW Corner SE Corner Center NW Corner SW Corner SE Corner Center NE Corner Corner SW Corner SW Corner SW Corner	Pit 1 @	Pit 2 @	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL ANALYS PIT NO 1 2 3 OR CELL ANALYS PIT NO PIT NO	(S) S	TPH DE\BTM 4400 GAMPLE ESULTS TPH GAMPLE ESULTS TPH TPH	SIDE\BTM ND BETEX	PER LAB PER LAB	DATE 7/15/9 DATE



		= SAMPLE AREA						
WELL NAME	D-SATILITE							
SAMPLE DATE	7/9/97							
NOTES	TOOK CORE SAMPLES ON NORTH,EAST,A	IND WEST						
	SIDES OF PIT EVERY 5' TO A DEPTH OF 25							
	SAMPLING WAS WITNESSED BY K.C. MANWELL							
	OF THE JIC. APACHE TRIBE E. P. O.							
	ARCHEOLOGICAL FIND ON SOUTH WALL OF P	IT.						
	STOPPED FURTHER EXCAVATION, BY REQUE	ST						
	OF JIC. APACHE TRIBE E.P.O.							
	TOOK CORE SAMPLES.							



ASSAIGAI ANALYTICAL LABORATORIES, INC.

4 1997 AUG



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 18, 1997 12:52

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

T-25-25N-04W

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9707102 : JICARILLA PIT CLOSURES

WORK ID

: APA01 CLIENT CODE

DATE RECEIVED : 07/11/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707102-01A

Sample ID: D-SATILITE CORE-WEST

Collected: 07/09/97 10:30:00

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	07/15/97	SBTXME177
	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
	ND	mg/kg	0.010	100	07/15/97	SBTXME177
	ND	mg/kg	0.0050	100	07/15/97	SBTXME177

Lab ID: 9707102-01B

Sample ID: D-SATILITE CORE-WEST

Collected: 07/09/97 10:30:00

Matrix: SOIL

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	07/15/97	SDRO41

Lab ID: 9707102-02A

Sample ID: D-SATILITE CORE-NORTH

Collected: 07/09/97 12:30:00

Matrix: SOIL

Sumpre 22 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylere 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	1000 1000 1000 1000 1000	07/16/97 07/16/97 07/16/97 07/16/97 07/16/97	SBTXME177 SBTXME177 SBTXME177 SBTXME177 SBTXME177



Diesel Range OG Soil/M8015 Diesel Range OG in Soil

Lab ID: 9707102-02B
Sample ID: D-SATILITE CORE-NORTH

Collected: 07/09/97 12:30:00 **Matrix:** SOIL

25 25

mg/Kg

07/16/97

SDRO41

Sample ID: D-SATILITE COR	Matrix: SC	:= =				
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	1600	mg/Kg	25	25	07/15/97	SDRO41
Lab ID: 9707102-03A Sample ID: D-SATILITE COR	E-EAST	Collected: Matrix: SO		7 11	:50:00	
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	100 100 100 100 100	07/15/97 07/15/97 07/15/97 07/15/97 07/15/97	SBTXME177 SBTXME177 SBTXME177 SBTXME177 SBTXME177
Lab ID: 9707102-03B Sample ID: D-SATILITE COR	E-EAST	Collected: Matrix: SO		97 11	:50:00	
ST / 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	07/15/97	SDRO41
Lab ID: 9707102-04A Sample ID: D-SATILITE COR	E-WEST 25'	Collected: Matrix: So		97 10	:30:00	
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	07/15/97	SDRO41
Lab ID: 9707102-05A Sample ID: D-SATILITE COF	RE-EAST 25'	Collected: Matrix: So		97 11	:50:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID

ND

Page: 3

Lab ID: 9707102-06A
Sample ID: D-SATILITE CORE-NORTH 25'

Collected: 07/09/97 12:30:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	4400	mg/Kg	25	25	07/16/97	SDRO41

President

WORKORDER COMMENTS

DATE : 07/18/97

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"

NT = Analyte "not tested" per client request.

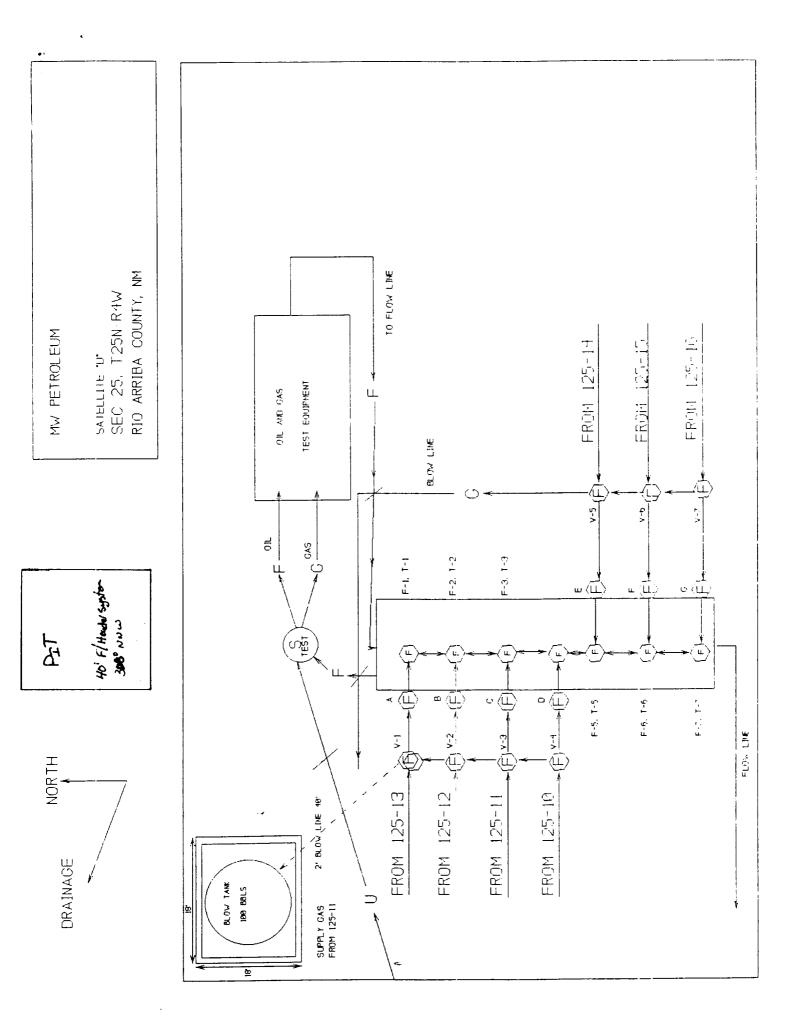
B = Analyte was also detected in laboratory method QC blank.

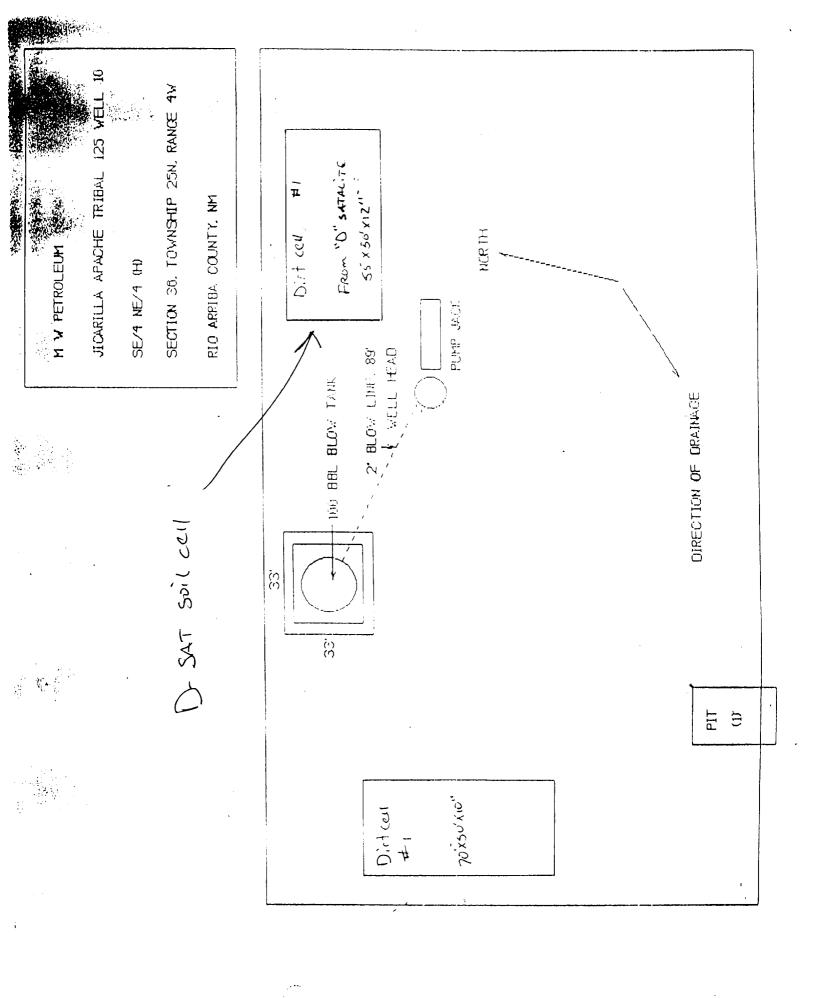
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.

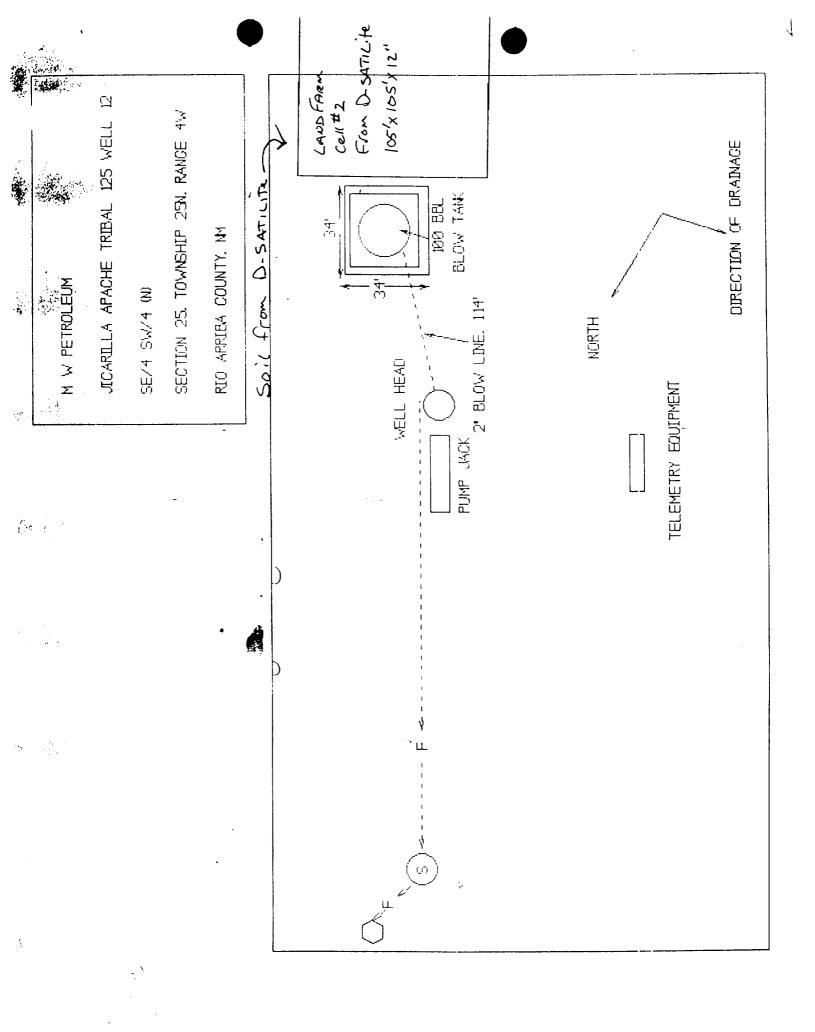
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS







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

Submii 1 copy to Natural Resource Dept. and Oil & Ges Administration

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLEUM			Telephone	e	505-325-0	0318	
Address:		2855 SOUTHS	IDE RIV	ER ROAD	/ SUITE A	/ FARMING	STON, N. M	1. 8740 <u>* -7</u> '94	7
Facility or We	ell Name:	D-S	ATILITE	E CELL # 1					
Location:	Unit or Qtr	/Qtr Sec N	W\SE_	Sec 25	T 25N	R 4W	_County	RIO ARRI	ВА
Land Type		JIC. TRIBAL							
Date Remedia	ation Starte	d: 6-2	-97		Date Com	ipleted:		5/2 ⁻ /§8	
Remediation	Method:	Landfarmed		XXX	Approx. c	ubic yards		102	
		Composted							
		Other		Renew	liated s	ioil To A	Be put Bi	Ack i.s.p.	, /
Depth to Grou	undwater:		(pts)	0		Final Clo	sure Samp	ling	*
Distance to a	n Ephemera	al Stream:	(pts)	0	Sampling	Date:	5/21/98	_ Time	12:20PM
Distance to N or Watering F		э, Playa,	(pts)	0	Sample R		ND		
Wellhead Pro	tection Are	a:	(pts)	0	Field Heads TPH	pace (ppm)	<u>ND</u>) ND	— Meth _' od	M8015
Distance To S	Surface Wa	ter:	(pts)	0				– 20A (ND)
RANKING SO	CORE (TO)	TAL POINTS)	•	0		JIEX (C	74040 , 002	<u> </u>	/
I HEREBY CE KNOWLEDG		AT THE INFOR LIEF	MATION	N ABOVE IS	S TRUE AI	ND COMPL	ETE TO TH	IE BEST OF	MY
DATE:		6/8/98		PRINTED	NAME		JEFF CF	ROSS	<u> </u>
SIGNATURE	_Je	of Cos	·	TITLE		PROJEC	T MANAGE	ER	
		U E SOIL REMED E JICARILLA AP						IS APFROV	ED IN
APPROVED:	YES	, <u>X</u>	NO	7	(REASC)	۷)			_
SIGNED:	Low	Me		DATE:	6	-23-5	78		-

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

Submit 1 copy to Natura' Resource Dept. and Oil & Gas Administration

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLEUM			Telephone	505-325-	0318
Address:		2855 SOUT	HSIDE RI	VER ROAD	/ SUITE A / FA	RMINGTON, N. N	Л. 8740 ⁻ 1-7947
Facility or We	ell Name:		D-SATILIT	E CELL # 2			
Location:	Unit or Qtr	/Qtr Sec _	NW\SE	Sec 25	T 25N R	4W County	RIO ARRIBA
Land Type		JIC. TRIBAI	_				
Date Remed	iation Starte	d: 6-	2.97		Date Complete	ed:	5/2 1/98
Remediation	Method:	Landfarmed	I	XXX	_Approx. cubic	yards40	r)
		Composted			_		
		Other		Lene	liated so.	1 70 Be put	BACK D. P. T
Depth to Gro	oundwater:		(pts)	0	Fir	nal Closure Sam	pling
Distance to a	an Ephemer	al Stream:	(pts)	0	Sampling Date	e: <u>5/21/98</u>	3_Time: 12:30PM
Distance to I or Watering		e, Playa,	(pts)	0	Sample Resul		
Wellhead Pr	otection Are	a:	(pts)	0	TPH	(ppm) ND	— Method M8015
Distance To	Surface Wa	nter:	(pts)	0		EX \ SW846 , 80	
RANKING S	CORE (TO	TAL POINTS)	0			
THEREBY C			ORMATIO	N ABOVE I	S TRUE AND C	COMPLETE TO T	HE BEST OF MY
DATE:		6/8/98		_PRINTED	NAME	JEFF C	ROSS
SIGNATURE	=	floo	<u> </u>	TITLE	PF	ROJECT MANAG	ER
AFTER REV	VIEW OF TH	<i>V ∪</i> IE SOIL REN E JICARILLA	MEDIATION APACHE	N INFORMA TRIBE PIT	ATION. CN-SIT CLOSURE OR	E REMEDIATION DINANCE.	N IS APPROVED IN
APPROVED): YES	5 <u>X</u>	NC)	_(REASON)		
SIGNED:	Kar	-CM	land	DATE:	6-23	- 78	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE		D-SATILLITE		_	
* AMOUNT OF SOIL U	INDERGOIN	G REMEDIATION	500	Yds.	
CELL No.	1		SampDATE 9/9/97	1100	ND ND
DIMENSIONS(LxWxH)	55' Y 5	N' ¥ 12"	5/21/98	ND	ND
DIMENSIONS(EXVXIII)	<u> </u>	0 X 12			
CELL LOCATION (dir. fron	n well head	JAT 125 #16			
* DATE BEGAN: 6	6/2/97	<u> </u>			
DATE TERMINATED (TPH	l <5,000 ppm/B	TEX< 50 ppm/Benzene < 10 p	pm) 5/21/98	3	-
			SampDATE	TPH	BTEX
CELL No.	2		9/9/97	6900	ND
			5/21/98	ND	ND
DIMENSIONS(LxWxH)	105' X	105' X 12"			
	<u> </u>				
CELL LOCATION (dir. fror	n well head	JAT 125#12		 	
* DATE BEGAN:	6/2/97	<u></u>			
DATE TERMINATED (TP)		TEX< 50 ppm/Benzene < 10 p	opm) 5/21/9	8	•
			SampDATE	TPH	BTEX
CELL No.	3				
DIMENSIONS(LxWxH)					
CELL LOCATION (dir. from	n well head				
* DATE BEGAN:					
DATE TERMINATED (TPI	-l <5,000 ppm/E	BTEX< 50 ppm/Benzene < 10 p	opm)		-
REMEDIATION RECORD	: (Date, Treatm	ent, Tilling)			
CELL #1 LOCA	TED ON THE	JAT 125 # 16, CELL #2 IS LOC	CATED ON JAT 125 #	12.	
6/7/97 TREAT CELL #1 W	/ITH 46-0-0 FEF	RTILIZER, WATER, PLOW A	ND TILL SOIL.		
6/8/97 TREAT CELL # 2 V 7/15/97 TILL SOIL. CE		RTILIZER, WATER, PLOW A	ND TILL SOIL.		
8/7/97 WATER , PLOW A		CELLS #1 AND #2			
9/9/97 TILL SOIL CE	ILS#1AND#	2			
10/20/97 TREAT CELLS #	1 AND # 2 WIT	H 125LBS PHOSPHORUS, 2	00LBS LIME, WATER	R,PLOW AND	TILL SOIL
5/6/98 PLOW SOIL #1,#2	. 5/7/98 TILL SC	OIL #1,#2. 5/12/98 PLOW #1,#	2. 5/13/98 TILL #1,#2	5/20/98 TILL	_#1,#2.

^{*} FROM EXCAVATION REPORTS.

= SAMPLE ARFA D-SAT Cell#2 spread on 125 #12 Coution \bigcirc 0 12 point composite sample ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 0 0 SAMPLE DATE: DIMENSIONS: WELL NAME: NOTES:

= SAMPLE AREA 0 0 D-SAT Cell#1 Spread on 125#16 loca + 32 ALL SAMPLES TAKEN 10" TO 12" INTO CELL 0 800 wt composite Sample 0 55'x 50 'X12" 0 SAMPLE DATE: DIMENSIONS: WELL NAME: 0 0 NOTES:

2...

DIMENSIONS: SAMPLE DATE: WELL NAME: B B Ø P = SAMPLE AREA £\$

NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

TOOK

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foin T

cowl A

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SAMAle

NOTES: DIMENSIONS: SAMPLE DATE: WELL NAME: B B B ALL SAMPLES TAKEN 10" TO 12" INTO CELL R 0 SATE 75 CU12 10 Point Ø COMPS: TE Sunte = SAMPLE AREA B



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

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

APACHE CORPORATION

Client:



	* explanation of codes
в	ana yte detected in Method Blank
	result is estimated
	ans lyzed out of hold time
	ter tatively identified compound
	subcontracted
-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

9805209 **JICARILLA** Project: Sample 05/21/98 Sample SOIL **D-SATILITE CELL #1** Collected 12:20:00 Sample ID Run Dilution Detection Date <u>Limit</u> Sequence Result Units **Factor** QC Group CAS# Fraction SW846-8020 Volatiles XG.1998.484-22 05/23/98 0.005 50 71-43-2 ND mg / Kg Benzene 9805209-01A X98285 XG 1998.484-22 50 0.005 ND mg/Kg 100-41-4 Ethylbenzene X98285 XG.1998.484-22 0.005 50 ND mg / Kg 95-47-6 o-Xvlene X98285 XG 1998.484-22 50 0.01 ND mg / Kg p/m Xylenes X98285 XG.1998.484-22 ND mg / Kg 50 0.005 Toluene X98285 108-88-3 SW846-8015 Modified TPH 05/23/98 25 25 XG 1998 488-27 ND mg / Kg Diesel Range Organics X98286 9805209-01B 05/21/98 Sample Sample SOIL Client **D-SATILITE CELL #2** Collected 12:30:00 Matr x Sample ID Run Dilution Detection Limit Sequence <u>Date</u>

Units Factor Result Fraction QC Group CAS# SW846-8020 Volatiles XG.1998.484-23 05/23/98 0.005 ND mg / Kg 50 9805209-02A X98285 71-43-2 Benzene 0.005 XG.1998.484-23 ND 50 Ethylbenzene mg / Kg X98285 XG.1998.484-23 0.005 ND 50 mg / Kg X98285 95-47-6 o-Xylene 0.01 XG.1998.484-23 50 ND mg / Kg X98285 p/m Xylenes XG.1998.484-23 ND 50 0 005 mg / Kg X98285 108-88-3 Toluene SW846-8015 Modified TPH 25 XG.1998.488-28 05/23/98 ND mg / Kg 9805209-028 Diesel Range Organics X98286

Page 1 of 2

Coyote Reports

ver 1.1 / 980406

Report Date

5/27/98 2:53:39 PM



Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION
Project: 9805209 JICARILLA

 Page 2 of 2
 Coyote Reports
 ver 1.1 / 98C406
 Report Date
 5/27/98 2:53:39 PM

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

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

7300 JEFFERSON, N.E. ALBUQUERQUE, HEW MEXICO 87109 (505) 345-8964 3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000

Remarks 22 MAM 9 Signature After analysis, samples are to be: Analysis Required 15:30 × Type / Bize of Container and Temp. Temp. Chemical 75 Project Manager/Contact Jeff Cross Ste. ATelephone No. (505) 774-6643 Signature, City/State/Zip Farmington, NM 87401-7947_ Fax No. (505) 774-6624 Samplers: (Signature) 4 02 9 1858 4 02 9 1855 Sample Type 5-2198 12:20 Soil 08.2/ Ē Signature. Reason. Address 2855 Southside River RD. Date 5-22-58 50 Field Location Client Apache Corporation 0-5471616 Cell#2 D-SATILITE CELL #1 Contract / Purchase Order / Quote Apacke Corp. Jeff wo Project Name / Number Relinquished by: $\overline{\omega}$ \$

LABORATORY

ree)

Stored over 30 days (ade-Returned to customer

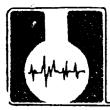
Disposed of (actitional :

Comments:

Method of Shipment:

Special instructions:

Stored (30 days max)



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:

September 16, 1997 14:34

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

: 9709105

WORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

WORKORDER #

: APA01

DATE RECEIVED: 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709105-01A

Sample ID: JAT D SATELLITE CELL 1

Collected: 09/09/97 09:15:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A		<u>-</u>				
Benzene	ND	mg/kg	0.0050	100	09/14/97	X97262
Toluene	ND	mg/kg	0.0050	100	09/14/97	X97262
Ethylbenzene	ND	mg/kg mg/kg	0.0050	100	09/14/97	X97262
P-&m-Xyler.e	ND	mg/kg	0.010	100	09/14/97	X97262
O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262

LaD ID: 9709105-01B

Sample ID: JAT D SATELLITE CELL 1

Collected: 09/09/97 09:15:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	1100	mg/Kg	25	25	09/12/97	SDRO052

Lab ID: 9709105-02A

Sample ID: JAT D SATELLITE CELL 2

Collected: 09/09/97 09:45:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzere P-&m-Xylene O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262
	ND	mg/kg	0.010	100	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262



Page: 2

() ID: 9709105-02B Sample ID: JAT D SATELLITE CELL 2

Collected: 09/09/97 09:45:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	6900	mg/Kg	25	25	09/12/97	SDRO052

0 V William P. Biava

President

WORKORDER COMMENTS

DATE : 09/16/97

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{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 Custody Record

ALBUQUERQUE, NEW MEXICO P7109 (505) 345-8964

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

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116

MELOUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required

Project Manager / Contact _Jeff_Cross Telephone No. (505) 774-6643 Fax No. (505) 774-6624 City/State/ZioFarmington, NM 87401 Client Apache Corporation Address 304 N. Behrend

City / State /	City / State / Zipt a rmington, NM 8 / 401	NM B /	411		. Fax No	Fax No. (505) 774=	-6624		<u>`</u> ₹		_	ŕ	
Project Nam	Project Name / Number JICARILLA	A PIT	PIT CLOSURES	URES		Samplers: (Signature)	1001	o Jour	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i> </i>	_		
Contract / Pu	Contract / Purchase Order / Quote							Navos Vo	/ Now X			Remerks	- ij
74									\ \ \ \	<i> </i>			
FRACTION	Sample Number / Location	ç	Dete	Time	Sample	Type / Size of Container	Freservation Temp. Chemical	ロケ/ /	<u></u>				_
Q E E	50T D SUTIER COLL 9/4/87	1//10	5/4/2	5	50.1	4 02 G/1155		~ ~					
016	// " //	``	148/6	27.0	7/:5	1020 1		\ -					
02A	341 D S.T.11, Coll	6 7/10	C.46/	9.45	705	1 02 0 1/25		✓					
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Refinquished by:	But	Date	St.	Received by:	10	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Relinquished by:		Dale 1/2 Sept. 9	Date A Received by:			
Printed (E)	Johns Persehr	Jm∙	E .	Printed	Jes-		Printed SCETT	T PARTY	Tige	Printed			
				Reeson			Reason		25:01 -	Company			1
									After analysis,	After analysis, samples are to be:			1
Method of Shipment	the state of the s		3	Comments:		ب مادس کے				Disposed of (additional fee)			
Shipment No.			<u> </u>							Stored (30 days max)			
Special Instructions:	¥		 						š	Stored over 30 days (additional fee)	onal (ee)		
			 - 							Returned to customer			
													7