JICARILLA APACHE TRIBE Sep - RISK SUBMIT 1 COPY TO SUBMIT 1 COPY TO PROTECTION OFFICE Natural resource dept and oil & gas administration

P.O. BOX 507

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

OUL COMMAND

	70	GUM LANDO		
		(50 9 \$26-9280		
Operator: AMOCO PRODUCTION COMPANY	Telephone:_			
Address: 200 Amoco Court, Farmington, NM	87401			
Facility or Well Name:	T # 147 - ZE			
Facility or Well Name:	n 51) County RIO A	IRR18A		
Facility or Well Name:	R_55 County			
Pit Type: Separator Dehydrator Other	0W			
Land Type: RANGE				
Land Type: KHNGC		1		
	9', width2o',			
(Attach diagram) Reference: wellhead X, or	ther			
Factors from reference: 265	·			
Direction from reference:	Degrees East	North X		
	West	South		
		(20 noints)		
Depth To Groundwater:	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)		
(Vertical distance from contaminants to seasonal	Greater than 100 feet	(0 points)		
high water elevation of groundwater)				
Distance to an Ephemeral Stream	Less than 100 feet	(10 points)		
(Downgradient dry wash greater than	Greater than 100 feet	(op)		
ten feet in width)	Less than 100 feet	(10 points)		
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and	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 100 feet to 1000 feet	(20 points)		
(Horizontal distance to perennial Greater than 1000 feet (U points)				
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)				
	RANKING SCORE (TOTA	L POINTS):		

		87619	BLOW PIT
Date Remediation Sta	rted:	_ Date Completed:	9/2/98
emediation Method: Check all appropriate ections)	Excavation \times Landfarmed \times Other	Approx. cubic yards Insitu Bioremediation	200
Remediation Location: i.e. landfarmed onsite, name and location of offsite facility)	Onsite X Offsite		
General Description of	rered: No Y Yes	Depth	
Final Pit: Closure Sampling:	Sample location see Attached		
if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth 21° (PIT Sample date $9/2/98$	Sample time	e 1215
	Sample Results Soil: Benzene (ppm) — Total BTEX (ppm) — Field Headspace (ppm) — TPH (ppm) —	31.9 E	Coluene (ppb) Sthylbenzene (ppb) Cotal Xylenes (ppb)
Groundwater Sample			
KNOWLEGE AND I			
	9/2/98 PRINTED N. OLY D. SQL AND TITE F THE PIT CLOSURE INFORMATION APACHE TRIBE PIT CLOSURE OF	N. PIT CLOSURE IS	haw tal Coordinator APPROVED IN ACCORDAN
TO THE JICARILL	NO (REASON)		
SIGNED:	-CMan DATE:	10-1-78	

30039 ZZ085

OZIGNAL PIT ALEA	1 @ 14' @ 2 @ 15' @ 3 @ 15' @ 4 @ 16' @	HEADSPACE (ppm)	20'
OZIGNAL PIT ALEA	1 @ 14' 0 2 @ 15' 0 3 @ 15' 0 4 @ 16' 0	(ppm) (O) (O) (O) (O) (O) (O) (O) (O) (O) (O	20
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FENCE SAMPLE FIELD PIE	HEADSPACE (ppm)	20
PIT PERIMETE	OVM		Α΄
0 FT			PIT PROFILE
SCALE 121			1:1 59 236 1:1 55 220
TIM	FIEI ME SAMPLE I.D. LAB No:	D 418.1 CALCULATION WEIGHT (g) mL. FRE	ON DILUTION READING CALC. ppm
CLOSED)			
APPHICENT HE SUO	IL. OKANGE SILTY SA. PPARENT STAINING OF IR DETECTED WIN EX	EMONITOR SEIGH	IGHTLY MOIST DENSE TO EXCADATION NO T 4C ODOR' IN PIT
NMOCD RANKING SCORE: _ O NM SOIL AND EXCAVATION DE	ADCD TPH CLOSURE STD: 300	РРМ	✓ PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100' NE	EAREST WATER SOURCE:	NEAREST SE	CHECK DNE :
TAND TISE KANGE	LEASE:		TORMATION:
EXCAVATION APPROX. 29 FT DISPOSAL FACILITY: C		ידוטו עונויות אינ	
QUAD/UNIT: I SEC: 5 TWP:	FEL CONTRACTOR: P	<u> 42 </u>	SPECIALIST:
OCATION NAME JICA. CONTR.	147 WELL #: 2E	PIT: BLOW	DATE STARTED: 7/2/98 DATE FINISHED:
FIELD REPORT:	CLOSURE VE	RIFICATIO	N PAGE No: 1 of 1
	BOX 87, BLOOMFI (505) 632-	ELD, NM 874.	LOCATION NO: BJ619 C.O.C. NO:
CLIENT: AMOCO P.O.	BLAGG ENGINEE	RING. INC.	I FOR A LINN NILL DUTCH I

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

5 @ 21'

Project Location:

Jicarilla Contract # 147 - 2E

Laboratory Number:

TPH-2023

Project #:

Date Analyzed:

09-02-98

Date Reported:

09-02-98

Soil Sample Matrix:

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	240	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
236	220	7.02

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - BJ619

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

Sample ID:

Project Location:

Laboratory Number:

Amoco

5 @ 21' Jicarilla Contract # 147 - 2E

TPH-2023

Project #:

Date Analyzed: Date Reported: 09-02-98 09-02-98

Soil Sample Matrix:

Sample Weight:

5.00 grams 20.00 mL Volume Freon:

Dilution Factor:

1 (unitless) 59 mg/kg

TPH Reading:

TPH Result: Reported TPH Result: **Actual Detection Limit:** Reported Detection Limit: 236.0 mg/kg 240 mg/kg 20.0 mg/kg

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

236

220

7.02

Comments:

Comments:

Blow Pit - BJ619

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

		(505)326-9200
Operator: AMOCO PRODUCTION COMPANY		
Court, Farmington, N	M 87401	
	NTKACT # //	ARRIBA
Vesstion: Unit or Otr/Otr Sec I Sec 5 T2	SN R36 County	
Dia Times Separator X Dehydrator Other		
Land Type: RANGE		
	24', width3/'	
(Attach diagram) Reference: wellhead X,	other	
Gootoge from reference: /3	5'	
Direction from reference:5	5 Degrees X East of West	South
	West	
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 feet	(20 points) (10 points) (0 points)
groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than	Less than 100 feet Greater than 100 feet	(10 points) O
ten feet in width) Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and	Less than 100 feet Greater than 100 feet	(10 points) Opoints)
livestock or wildlife watering ponds) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than	Yes No	(20 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)
	RANKING SCORE (TOTA	L POINTS):

		87619	SEP. PIT
	ted:	Date Complete Approx. cubic y	ed: <u>9/9/98</u> yards <u>400</u>
emediation Method: Theck all appropriate sections)	Excavation X Landfarmed X Other	Insitu Bioremed	liation
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) Caneral Description of	Onsite X Offsite Remedial Action: Exca		
Groundwater Encounter		Yes Depth	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth26' Sample date9/2/9 Sample Results Soil: Benzene Total BTEX Field Headspace TPH	(PIT BOTTOM) (P	time
Groundwater Sample		(If yes, attach sam	
KNOWLEGE AND B	Eller		COMPLETE TO THE BEST OF MY
SIGNATURE BUS	TO DUE OF OCUDE INFO	AND TITLE Environ	nmental Coordinator E IS APPROVED IN ACCORDANCE
TO THE JICARILLA	APACHE IRIBETH OUS		Closure

DATE: 10-1-98

FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of 1 DCATION: NAME J.C. CONTR. 147 WELL # 2E PIT: SEP. QUAD/UNIT I SEC: 5 TWP. 25N RNG: 50 PM. MY TRAST. NY DIRECTOR OF THE CONTRACTOR. P + 5	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 CCC. ND 6050 FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of 1 OCATION: NAME TICA. CONTR. 147 WELL 8: 2e pt. 5ep. QUAD/UNIT: I SEC: 5 TWP 25N RNG. 5w PN. NM CNTY. RA ST. NM DTR/FODTAGE: 1450 FSL. 1490 FEL. CONTRACTOR: P + 5 EXCAVATION APPROX. 24 PT. X 31 PT X 24 PT. DEEP. CUBIC YARDAGE: 400 DISPOSAL FACILITY: 2n - 5TE REMEDIATION METHOD: LANDERSM. DISPOSAL FACILITY: 2n - 5TE REMEDIATION METHOD: LANDERSM. DISPOSAL FACILITY: 2n - ST. LEASE TIC. 147 FORMATION: OR ELLD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FT. 115E FROM VELLHER ELLD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FT. 115E FROM VELLHER ELLD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FT. 115E FROM VELLHER SOUL AND EXCAVATION DESCRIPTION SOUL AND EXCAVATION TO THE CLOSURE STD SOOD PRH ANSTEL FROM TO VEAL STREET TOWN INSTALLED FIREMARS STORE IN TOWN INSTALL SOUL TYPE FAMOR OF TWE STREET TOWN INSTALLED FIREMARS STORE IN TWE STREET TOWN INSTALLED FIREMARS STORE IN TOWN INSTALL SOUL TYPE FAMOR OF TWE STREET TOWN INSTALLED FIREMARS STORE IN TWE STREET TOWN INSTALLED FIRE SAMPLE ID LAB NO WEIGHT (g) INL. FREON DULUTON READING CALC PR PIT PROFILE A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIENT: AMOCO	THE PROPERTY OF THE PROPERTY O	0
DOATION: NAME JULA COUTE, 147 WELL # 2E PIT SEP. QUADUNIT I SEC 5 TWP 250 RNG 5W PM NM CHTY RA ST. NM DATE FINANCIAL EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 32 FT. NSSE FOR WELLHAR AND USE. ROMAGES TO THE LEASE. TIC. 147 FORMATION: DR ELD NOTES & REMARKS. PIT LIDCATED APPROXIMATELY 135 FT. NSSE FOR WELLHAR AND USE. ROMAGES TO THE CUBIC STORY OF PM INDICE BANKING SCORE: 0 NODO THE CUBURE STD 5000 PM INDICE BANKING SCORE: 0 NODO THE CUBURE STD 5	DOCATION: NAME JICA, CONTR. 147 WELL # 2E PT: SEP. QUAD/UNIT. I SEC. 5 TWP, 250 RNG 50 PM: NM CNTY RA ST. NM DTR/FODIAGE 1450 PSt. In 90 FEL. CONTRACTOR: P + 5 EXCAVATION APPROX. 24 FT. x 31 FT. x 21 FT. DEEP. CUBIC YARDAGE: 400 EXCAVATION APPROX. 24 FT. x 31 FT. x 21 FT. DEEP. CUBIC YARDAGE: 400 DISPOSAL FACILITY: PA-517E REMEDIATION METHOD: LANDERSM. LEASE. TC. 147 FORMATION: DR BEPTH 10 GROUNDWATER 2100, MEAREST WATER SURGED. SEPTH 10 GROUNDWATER 2100, MEAREST WATER SURGED. SEPTH 10 GROUNDWATER 2100, MEAREST WATER SURGED. SOUL TYPE LANGED FORM 5000 FM COMP. NEAREST SURFACE WATER. SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY BOSTALE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY BOSTALE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY TO MIGHLY ADSTITE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY BOSTALE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY TO MIGHLY ADSTITE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY BOSTALE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY TO MIGHLY ADSTITE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY TO MIGHLY ADSTITE) SOUL TYPE LANGED FORM 5000 TO CLAY (CLAY MOSTLY TO MIGHLY ADSTITE) SOUL TYPE LANGED FORM 5000 PM FORM 5000 P		P.O. BOX 87. BLOOMFIELD, NM 87413	
DOTATION: NAME TICA, CONTR. 147 WELL # 26 PIT: SEP. QUAD/UNIT I SEC. 5 TWP. 250 RNG 50 PM. NOT CRITY. RA ST. NOT. DIRFORDITAGE: 1450 FEL. 1490 FEL. CONTRACTOR P + 5 EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 24 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 24 FT x 31 FT x 32 FT. DEEP. EXCAVATION APPROX. 34 FT. DEEP. EXCAVATION APPROX. 34 FT x 32 FT. DEEP. EXCAVATION APPROX. 34 FT x 32 FT. DEEP. EXCAVATION APPROX. 34 FT x 32 FT. DEEP. EXCAVATION APPROX. 35 FT. DEEP. EXCAVATI	DOLATION: NAME TICA. COUTR. 147 WELL # 2E PT: SEP. GLAD/UNIT. I SEC: 5 TUP 250 RNG: 50 PM: NOT CNTY RAST. NOT OTR/FOOTAGE: 1450 PSL 1490 FEL CONTRACTOR. EXCAVATION APPROX. 24 FT. x 31 FT. x 24 FT. DEEP. CUBIC YARDAGE: 400 DISPOSAL FACILITY: DA-51TE REMEDIATION METHOD: LANDFREN. DISPOSAL FACILITY: DA-51TE REMEDIATION METHOD: LANDFREN. IELD NOTES & REMARKS. PIT LOCATED APPROXIMATELY 135 FT. MSSE FROM VELLHER ELD NOTES & REMARKS. PIT LOCATED APPROXIMATELY 135 FT. MSSE FROM VELLHER SECUL TYPE RANGED FOR NAMED TO PROVIDE STORE VALUE. NAMEDE BANKING SCORE: D NAMED TO CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL), OR. FULL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL), OR. FULL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL), OR. FULL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL), OR. FULL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL), OR. FULL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TIDEWALL SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO ME SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOSTUP OSSERVED IN WEST TO MET SCOUNT TO MED. CLOY (CLOY MOST COUNT TO MED. CLOY	FIELD REPOR	I CLOSONE VERMI TOTTE	
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LEASE IT TO THE LEASE FROM VELLHEAD PRODUCT AS FT. MSSE FROM VELLHEAD PROPERTY TO GROUNDVATER 2100' NEAREST VATER SOURCE 2100' NEAREST SURFACE VATER 2000' NEAREST SURFACE VATER 1000' NEAREST SOURCE OF MOSTLY OSSERVED IN WEST TOTAL FOR THE STRAILED STEEVED IN SOUTHWEST COMMENT OF THE STRAILED STEEVED IN SOUTHWEST SUBJECT TO MEST SUBJECT OF MED NEST SUBJECT SURFACE VATER 2000' NEAREST SUBJECT SURFACE VATER 2000' NEST SUBJECT SURFACE VATER 2000' NEAREST SURFACE VATER 2000'	LEASE JOURNELLAND USE: RANGE LEASE JOURNELLAND USE: RANGE LEASE JOURNELLAND USE: ROMARKS: PIT LOCATED APPROXIMATELY 135 FT. MSSE FROM WELLHEAD TO SECOND MEAREST VATER SOURCE 21000' NEAREST VATER 210		REMEDIATION METHOD:	
DEPTH TO GROUNDWATER 2/00 NEAREST WATER SOURCE: 7900 PPM NOODED RANKING SCORE: 0 NMOOD TOH CLOSURE STD 5000 PPM SOIL AND EXCAVATION DESCRIPTION: STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED FIBERG	DEPTH TO GROUNDVATER 2100' NEAREST VATER SOURCE: 57000 NEION NEAREST VATER NOTICE: 57000 NEION NEION NEAREST VATER NOTICE: 57000 NEION NEION NEAREST VATER NOTICE: 57000 NEION NEION NEION NEAREST NEION	LAND USE: RANGE	LEASE:TOTALLET	
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LAB SAMPLES SAMPLE ANALYSIS TIME (3) 026 TPH BTEX 1300 SW-C " " " " " BOTH TPH ASSED BE 26' TOT. STEN TONES	LAB SAMPLES SAMPLE ANALYSIS TIME SOCIAL TOPH STEX 1300 SW-C " / " " " BOTH TOPH ANS TOPH BOTH TOPH ANS TOPH SOCIAL TOPH STEX 1300	SCALE OFT PIT PERIM 24'	FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING PIT PROFIL OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 25' 0.0 2 @ 18' 921 4 @ 19' 921 4 @ 19' 921 5 PIT PROFIL	CALC. ppr
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De 26' -10T. STEP -FAILED	TRAVEL NOTES: ONSITE: 9/z/98 - AFTER.	SCALE SCALE OFT PIT PERIM TO PRIME A STAND AUTOMATION	FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ Zo' P.O. O.	CALC. ppr
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	TRAVEL NOTES: CALLOUT: ONSITE: ONSITE:	SCALE SCALE OFT PIT PERIM TO PRIME A STAND AUTOMATION	TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING PIT PROFIL OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ ZO' 0.0 2 @ 18' 92-1 4 @ 19' 92-1 5 @ 26' 827 LAB SAMPLES SAMPLE ANALYSIS TIME 302-6 TPH STEX 13 20 SW-C " 1" " "" BOTH TPH ASSESSMENT	CALC. ppr

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 147 #2E

Unit I, Sec. 5, T25N, R5W Separator Pit

Basin Dakota
Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent (26 ft. below grade) and for safety concerns (underground piping and surface equipment).

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

- Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- Well site located within the <u>non-vulnerable area</u> and is approximately 1.04 miles north of the nearest vulnerable area boundary (Gonzales Canyon wash).

(Refer to <u>Lapis Point Quadrangle</u>, <u>New Mexico - Rio Arriba County</u>, 7.5 <u>Minute Series</u> (<u>Topographic</u>), 1963, (<u>vulnerable area boundary developed by Mr. William C. Olson</u>, <u>Hydrogeologist</u>, <u>Environmental Bureau</u>, <u>New Mexico Oil Conservation Division</u>).

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



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	D901 6050 Soil Cool Cool and Intact	Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	09-04-98 09-09-98 09-09-98 8015 TPH Det. Limit
Parameter		(mg/Kg)	(mg/Kg)
Gasoline Range (C5 -	C10)	518	0.2
Diesel Range (C10 - C28)		41.4	0.1
Total Patroleum Hydro		559	0.2

ND - Parameter not detected at the stated detection limit.

Total Petroleum Hydrocarbons

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract #147 - 2E Separator Pit. Grab Sample.

Analyst . General

Stacy W Sendler



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Gasoline Range (C5 - C	:10)	30.0	0.2
Parameter		oncentration (mg/Kg)	Det. Limit (mg/Kg)
Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO SW - C D902 6050 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 09-09-98 09-02-98 09-04-98 09-09-98 09-09-98 8015 TPH

ND - Parameter not detected at the stated detection limit.

References:

Diesel Range (C10 - C28)

Total Petroleum Hydrocarbons

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

1.5

31.5

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract #147 - 2E Separator Pit.

4 Pt. Composite of Sidewalls.

Analyst Person

Stacy W Sendler
Review

0.1

0.2



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 5 @ 26' D901 6050 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	Det.	04034-10 09-09-98 09-02-98 09-04-98 09-09-98 09-09-98 BTEX
Parameter		entration /Kg)	Limit (ug/Kg)	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	973 8,880 5,050 27,780 11,700		8.8 8.4 7.6 10.8 5.2	
Total BTEX		54,380		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•	Trifluorotoluene Bromofluorobenzene	98 % 98 %

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 Contract #147 - 2E Separator Pit. Grab Sample.

Decen L. Gyeren

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

			Det.
Condition:	Cool & Intact	Analysis Requested.	5,2,
Preservative:	Cool	Analysis Requested:	BTEX
Sample Matrix:		Date Extracted:	09-09-98
	Soil	Date Analyzed:	09-09-98
Chain of Custody:	6050	Date Received:	09-04-98
Laboratory Number:	D902	Date Sampled:	09-02-98
Sample ID:	SW - C	Date Reported:	
Client:	Blagg / AMOCO	Project #:	09-09-98
		Desirable	04034-10

Parameter	Concentration (ug/Kg)	Limit (ug/Kg)
D	149	8.8
Benzene	654	8.4
Toluene	129	7.6
Ethylbenzene	1,720	10.8
p,m-Xylene o-Xylene	489	5.2
Total BTEX	3,140	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	100 % 100 %

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 Contract #147 - 2E Separator Pit.

4 Pt. Composite of Sidewalls.

Alexan R. Oylersen

Stacy W Sendler

CHAIN OF CUSTODY RECORD

	<u>8</u>	Cool - Ice/Blue Ice	Č	-0615	Farmington, New Mexico 67401	Ta					
-	BCt Y	Received Intact		jhway 64	5796 U.S. Highway 64	,					
z	Y				Y NOIT		;	-			
~	Sample Receipt	Sam	ถ	フェ フェ	FOVIDOTECH IS		1619/4619 .0007	20. 61.		5, 250 O C	
			ature)	Received by: (Signature)	Rece				iture)	Relinquished by: (Signature)	
, .			ature) *	Received by: (Signature)	Rece	- <u></u>			ture)	Relinquished by: (Signature)	
1871	9.4.8		P. Ohm	College of	98 1435	9/4/		9	ture)	Relinquished by: (Signature)	
Time	Date			Pr (Sim	Time				-		
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K	SURMALS	K									
M. Composite	Car	4 1	7	~ ~	501L	۲	2902	1300	342/6	Sω - C	
	1 1				007.0		0 10	7/1/98 1300	7/2/70	600	
The state of the s	SAMPE	GRAR	\	- - <	50%	,)	1200	2//2	(200 (3)	
			74 (80 87 (80	Con	Sample Matrix	ber	Lab Number	Sample Time	Sample Date	Sample No./	 -
	Total Raine		(12)	o. of tainers	J	04034-10	Client No.			Sampler: ペナレ	(0
					7 7/47-ZE	CONTRACT	TICARILLA		mocs	BLAGE / Amoco	1
		WETERS	ANALYSIS / PARAMETERS		SEPREMIES PIT		Project Location			lient / Project Name	\overline{a}

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: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court,	Farmington,	NM 87401
Facility or Well Name: JICARILLA	CONTRACT 14	1 - 2E
Location: Unit or Qtr/Qtr Sec_/	Sec_ <u></u>	SN RSW County E10 ARRIBA
Land Type:		
Date Remediation Started: 9.29	8	Date Completed: 5/4/99
Remediation Method: Landfarmed		Approx. cubic yards 600
Composted		
Other	<u> </u>	
epth To Groundwater:	(pts.)o	Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.)	Sampling Date: $\leq .399$ Time: $//50$
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results:
Wellhead Protection Area:	(pts.)	Field Headspace (ppm) 0.0
Distance To SurfaceWater:	(pts.)	TPH (ppm) ND Method (8015) Other
RANKING SCORE (TOTAL POIN	TS): <u> </u>	
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	RMATION ABOVE	IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 514199	, PRINTED N	IAME Buddy D. Shaw
SIGNATURE Bully 1. S	haw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REME ACCORDANCE TO THE JICARILLA	DIATION INFORM APACHE TRIBE PIT	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES NO	(REASON)	
ir		
SIGNED:	DATE	

CLIENT AMOCO BLAGG ENGIN	NEERING, INC.	LOCATION NO: 85419
PO BOX 87. BLOO	MFIELD, NM 87413 32-1199	C.O.C. NO: 6906
FIELD REPORT: LANDFARM/COMP		VERIFICATION
LOCATION: NAME: JICAPILLA CONTRACT 147 WELL #: 26	PITS: SEP, BLOW	DATE STARTED: 5.3.99 DATE FINISHED:
QUAD/UNIT: / SEC: 5 TWP:25N RNG:5N/		ENVIRONMENTAL REP
SOIL REMEDIATION:		ZADDACE. /200
REMEDIATION SYSTEM: LANDFARM	APPROX. CUBIC Y	
LAND USE: RANGE	LIFT DEPTH (ft):	
FIELD NOTES & REMARKS:	NAME OF THE PART O	OF WATER >/000
DEPTH TO GROUNDWATER: 7/00' NEAREST WATER SOURCE:		JE WATER
NMOID RANKING SCORE: 0 NMOCD TPH CLOSURE STD	<u>5000</u> PPM ITIJMOIST <i>EIR</i> A	1
DK. YELLOWISH ORANGE SAND, NON COHESIVE NO APPARENT STAINING NO HE ODOR DET	TENTED SAMPLING DEPT	rds
RANGE FROM 6"- 18" COLLECTED A EPT.	COMPOSITE SAMPLE FO	P
LAB ANALUSIS		
CLOSED	4 OM CHI ATTENS	
SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT	1 CALCULATIONS (g) ml. FREON DILUTION READ	ING CALC. ppm
SAMP. TIME SAMPLE I.D. D.D. TO.	(3)	
CANDLE LOCATIONS		
SKETCH/SAMPLE LOCATIONS		
, a'	OVM RESULTS	LAB SAMPLES
8	SAMPLE FIELD HEADSPACE SAMP	
O O N	LF-1 0.0 LF-1	(8015) 1150 ND
112'-5 70610		
0 112-370		
6 //5		
\$		
Y X		
Q	SCALE	
	O FT	
TRAVEL NOTES: CALLOUT: NA	ONSITE: 5 · 3 99	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 1 F120 6906 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 05-04-99 05-03-99 05-04-99 05-04-99 8015 TPH
--	--	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	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 Contract 147 - 2E Landfarm. 5 Pt. Composite.

Decen P. Oferen

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

-	Cool - Icarpine ice	0615	(505) 632-0615				
7		Nexico 87401	Farmington, New Mexico 87401				
7	Received Intact	hway 64	5796 U.S. Highway 64	!			
Z NA							
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a Time	Date						2
	Cool						
368846	SAREPE						
POSITE	SPT. COMPOSITE		5014	F/20	1150	5399	1-37
			Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
		lo. of ntainer		403410			RA
क्र	Remarks	8		Client No.		0	Sampler:
	METERS	ANALYSIS / PARAMETERS	Figher Location — Figher 147.26	Froject Eocation			Client / Project Name
			MORACH	Bright Costion LANDFACH			