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DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

Approved

Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

X
RECEIVED
JUN 24 1999

OIL CON. DIV.
DIST. 3

Pit Remediation and Closure Report

Operator:	Taurus Exploration U.S.A., Inc		Telephone:	(505) 325-6800	
Address:	2198 Bloomfield Hwy, Farmington, NM 87401				
Facility or Well Name:	Jicarilla 95-4 A				
Location:	Unit or Qtr/QTR		Sec "D"	Sec 26, T 27 N, R 3 W	County Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit		
Land Type:	Range				
Pit Location:	Pit dimensions: length: 30 ft width: 40 ft depth: 10 ft				
(Attach Diagram)					
Reference:	wellhead: X other:				
Footage from reference:	75 feet				
Direction from reference:	5	Degrees	East	North	X
				of	
			X West	South	
Depth To Groundwater:	Less than 50 feet	(20 points)			
(Vertical distance from	50 feet to 99 feet	(10 points)			
contaminants to seasonal	Greater than 100 feet	(0 points)	0		
high water elevations of					
groundwater)					
Distance to an Ephemeral Stream:	Less than 100 feet	(10 points)			
(Downgradient dry wash greater than	Greater than 100 feet	(0 points)	0		
ten feet in width)					
Distance to Nearest Lake, Playa, or Watering	Less than 100 feet	(10 points)			
Pond: (Downgradient lakes, playas, and	Greater Than 100 feet	(0 points)	0		
livestock or wildlife watering ponds)					
Wellhead Protection Area:	Yes	(20 points)			
(Less than 200 feet from a private	No	(0 points)	0		
domestic water source, or less than					
1000 feet from all other water sources)					
Distance To Surface Water:	Less than 100 feet	(20 points)			
(Horizontal distance to perennial	100 feet to 1000 feet	(10 points)			
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	0		
irrigation canals and ditches.)					
RANKING SCORE (TOTAL SCORE):					0

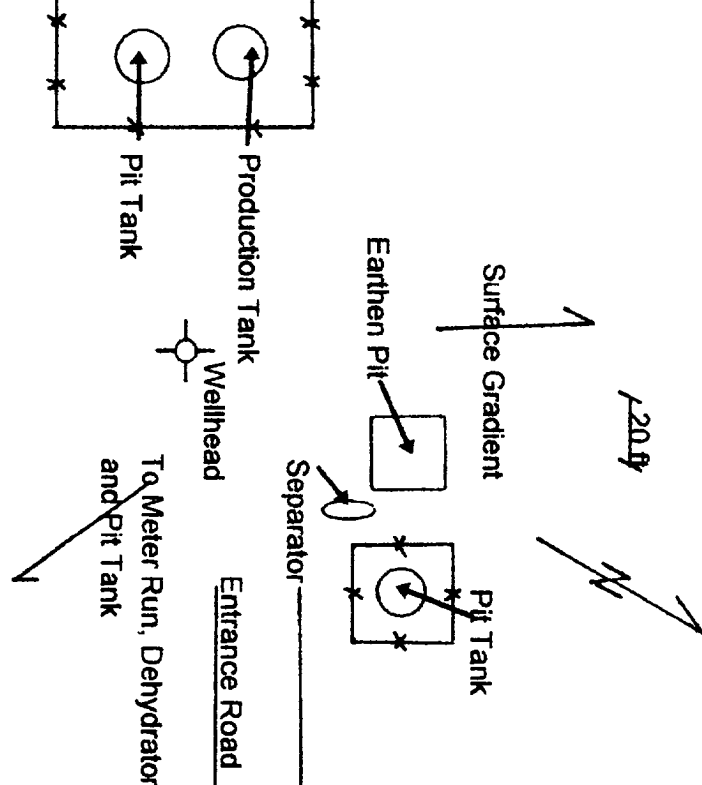
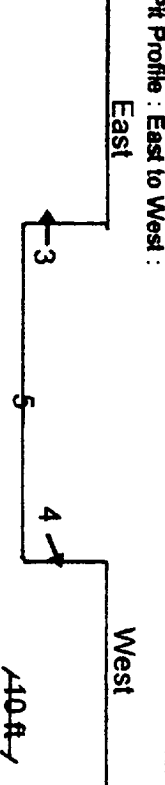
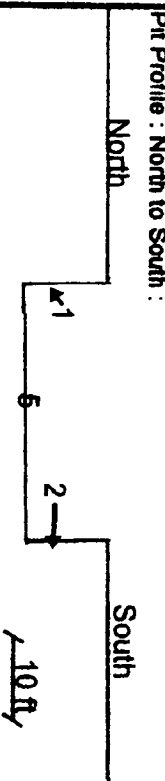
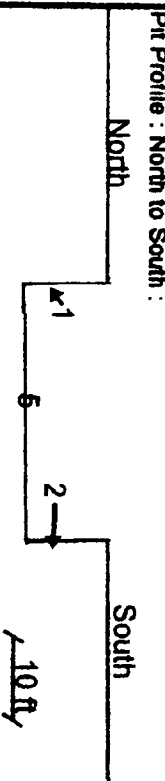
Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	7/23/98	Date Completed	7/24/98
Remediation Method:	Excavation: <u>X</u>	Approx. cubic yd	415
(Check all appropriate sections)	Landfarmed: <u>X</u>	Insitu Bioremediation:	
	Other:		
Remediation Location:	On-site: <u>X</u>	Off-site:	
(I.e. landfarmed on site, name and location of off site location)			
General Description of Remedial Action:	Soil was excavated and landfarmed on location.		
Groundwater Encountered:	No: <u>X</u>	Yes:	Depth:
Final Pit	Sample location: Pit bottom @ 10 feet below surface . Pit		
Closure Sampling:	walls were analyzed for Headspace (see attachment).		
(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	10 feet	
	Sample date:	7/23/98	Sample time: 1040
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)	ND	Benzene (ppb)	
Total BTEX (ppm)	ND	Toluene (ppb)	
Field Headspace (ppm)	221	Ethylbenzene (ppb)	
TPH (ppm)	28	Total Xylenes (ppb)	
Groundwater Sample:	Yes:	No: <u>X</u>	
(If yes, attach sample results.)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE:	8/26/98	Frank McDonald	
SIGNATURE:	AND TITLE: Env. Division Manager		
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED:	Yes: <u>X</u>	No:	(Reason)
SIGNED:	DATE:		9-2-98

Client : Taurus Exploration U.S.A. Inc.

Date Started : July 23, 1998 Date Completed : July 24, 1998

Location : Jicarilla 95 # 4A		Overview of Location and Sampling : 	
Quad : D Section : 26			
Range : 3 W Township: 27 N			
Pit : Abandoned Separator Pit Reference : 75' N 5 W from wellhead Initial Size : 20' x 20' x 2' deep Final Size : 30' x 40' x 10' deep Yds. Excavated : 415 cy Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' Nearest Ephemeral Stream: >1000' EPO Ranking Score: 0 TPH Closure Standard: 5000			
Comments : Top soil - 6' Soil is moist, brown, clay/loam, with heavy black/gray staining and a strong HC odor. 6' - 10' Soil is moist, clay/loam with light gray staining and a slight HC odor. 10' - 12' (Along East wall) Soil is moist, clay/loam with very light staining and a slight odor. Excavation was limited in all directions due to surface equipment/boundaries. A sample from the center bottom was sent to IML for GRO/DRO and BTEX analysis.		Pit Profile : East to West : 	
Pit Profile : North to South : 		Pit Profile : North to South : 	

Environmental Specialist : VC

Cimarron Oilfield Services

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GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 95-4A Sep. Pit	Report Date:	07/30/98
Sample ID:	C. Bottom @ 10'	Date Sampled:	07/23/98
Lab ID:	0398G04174	Date Received:	07/24/98
Sample Matrix:	Soil	Date Analyzed:	07/29/98
Condition:	Cool/Intact		

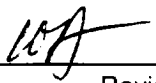
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	21	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	42	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:

DIESEL RANGE ORGANICS - DRO**Taurus Exploration U.S.A., Inc.**

Project ID:	Jicarilla 95-4A Sep. Pit	Report Date:	07/30/98
Sample ID:	C Bottom @ 10'	Date Sampled:	07/23/98
Lab ID:	0398G04174	Date Received:	07/24/98
Sample Matrix:	Soil	Date Analyzed:	07/30/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)**RESULT****DETECTION LIMIT**

Diesel-Range Petroleum Hydrocarbons

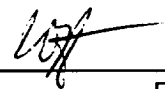
6.6

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:**Comments:**

Reported By:



Reviewed By:

VOLATILE AROMATIC HYDROCARBONS**Taurus Exploration U.S.A., Inc.**

Project ID:	Jicarilla 95-4A Sep. Pit	Report Date:	07/30/98
Sample ID:	C. Bottom @ 10'	Date Sampled:	07/23/98
Lab ID:	0398G04174	Time Sampled:	10:40
Sample Matrix:	Soil	Date Received:	07/24/98
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	07/29/98


Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	ND	50.0
m,p-Xylenes	ND	50.0
o-Xylene	ND	50.0

ND - Analyte not detected at the stated detection limit.

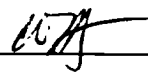
Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	N/A	70%-130%

Reference: Method 5030, Purge and Trap; Method 8021B, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Revision 2, December, 1996.

Comments: N/A=Data not available.



Analyst



Review



CHAIN OF CUSTODY RECORD

[illegible]

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Taurus Exploration USA Inc.</u> Telephone: <u>(505) 325 - 6800</u>	
Address: <u>2198 Bloomfield Hwy, Farmington N.M. 87401</u>	
Facility or Well Name: <u>Jicarilla 95-4A</u>	
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>26</u> T <u>27 N</u> R <u>3 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>July 23, 1998</u> Date Completed: <u>November 13, 1998</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>415</u>	
Composted <u> </u>	
Other <u> </u>	
<p>Depth to Groundwater: (pts) <u>0</u></p> <p>Distance to an Ephemeral Stream (pts) <u>0</u></p> <p>Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u></p> <p>Wellhead Protection Area (pts) <u>0</u></p> <p>Distance to Surface Water (pts) <u>0</u></p> <p>RANKING SCORE (TOTAL POINTS): <u>0</u></p>	<p style="text-align: center;">Final Closure Sampling:</p> <p>Sampling Date: <u>11/13/98</u> Time: <u>0845</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>3.6</u></p> <p>TPH (ppm) <u><10</u> Method <u>8015</u></p> <p>Other: <u> </u></p>
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p>DATE: <u>12/8/98</u> PRINTED NAME <u>FRANK MCDONALD</u></p> <p>SIGNATURE <u><i>Frank McDonald</i></u> AND TITLE <u>ENV. DIVISION MANAGER</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</p> <p>APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>use as Backfill</u></p> <p>SIGNED: <u><i>Kurt C. Marshall</i></u> DATE: <u>12-28-98</u></p>	


GASOLINE RANGE ORGANICS - GRO**TAURUS EXPLORATION U.S.A., INC.**

Project ID:	Jicarilla 95-4A	Report Date:	11/23/98
Sample ID:	Land Farm Comp. #2	Date Sampled:	11/13/98
Lab ID:	0398G06698	Date Received:	11/16/98
Sample Matrix:	Soil	Date Analyzed:	11/18/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg
Total Purgeable Hydrocarbons	<5.0	5.0 mg/Kg

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
Bromofluorobenzene	85%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:**Comments:**
Reported By: _____
Reviewed By: _____


DIESEL RANGE ORGANICS - DRO**TAURUS EXPLORATION U.S.A., INC.**

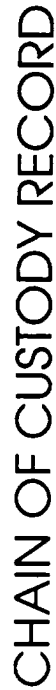
Project ID:	Jicarilla 95-4A	Report Date:	11/23/98
Sample ID:	Land Farm Comp. #2	Date Sampled:	11/13/98
Lab ID:	0398G06698	Date Received:	11/16/98
Sample Matrix:	Soil	Date Analyzed:	11/18/98
Condition:	Cool/Intact		

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg
Total Extractable Hydrocarbons	<5.0	5.0 mg/Kg

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
o-Terphenyl	78%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:**Comments:**
Reported By:
Reviewed By:



CHAIN OF CUSTODY RECORD

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