

Denny & Frost
DEPUTY OIL & GAS INSPECTOR

AUG 6 1999

Approved

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

OK
RECEIVED
JUN 24 1999


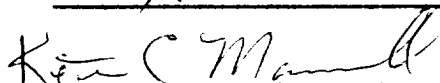
OIL CON. DIV.
DIST. 3

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 94-6 A		
Location:	Unit or Qtr/QTR Sec "P" Sec 27, 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: 40 ft width: 20 ft depth: 12 ft		
(Attach Diagram)			
Reference:	wellhead: X other:		
Footage from reference:	105 feet		
Direction from reference:	20	Degrees	X East North
			of
			West South X
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

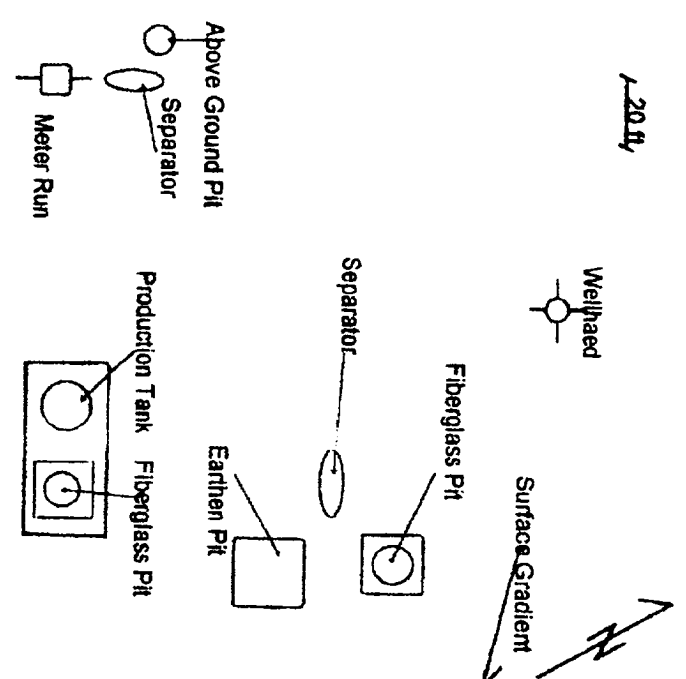
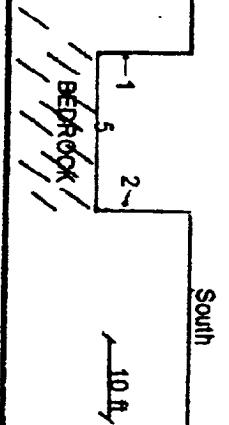
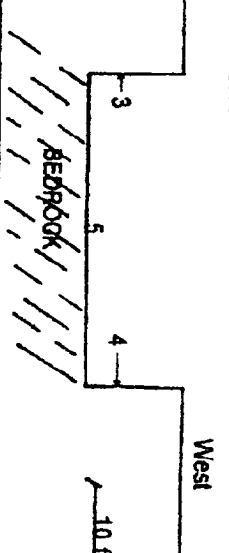
Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: <u>7/9/98</u>		Date Completed: <u>7/17/98</u>	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yds: <u>308</u>
	Landfarmed:	<u>X</u>	Insitu Bioremediation:
	Other:		
Remediation Location: (I.e. landfarmed on site, name and location of off site location)	On-site:	<u>X</u>	Off-site:
General Description of Remedial Action: <u>Soil was excavated and landfarmed on location.</u>			
Groundwater Encountered: No: <u>X</u> Yes: _____ Depth: _____			
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)		Sample location: <u>East wall @ 7 feet below surface. Pit bottom and walls were analyzed for Headspace (see attachment).</u>	
		Sample depth:	<u>7 feet</u>
		Sample date:	<u>7/17/98</u> Sample time: <u>1055</u>
Sample Results:			
Soil:		Water:	
Benzene (ppm)	<u>ND</u>	Benzene (ppb)	_____
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>298</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u><34</u>	Total Xylenes (ppb)	_____
Groundwater Sample: (If yes, attach sample results.)	Yes: _____	No: <u>X</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>8/26/98</u>		Frank McDonald	
SIGNATURE: <u></u>		AND TITLE: <u>Env. Division Manager</u>	
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: <u></u>		DATE: <u>9-2-98</u>	

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

Date Started : July 9, 1998 Date Completed : July 17, 1998

<p>Location : <u>Jicarilla 94 - 0A</u></p> <p>Quad : <u>P</u> Section : <u>27</u></p> <p>Range : <u>3 W</u> Township : <u>27 N</u></p> <p>Pit : <u>Abandoned Separator Pit</u> Reference : <u>105' S 20 E</u> <u>from wellhead</u> Initial Size : <u>18' x 18' x 3' deep</u> Final Size : <u>40' x 20' x 12' deep</u> Yds. Excavated : <u>308 cy</u> Depth to Groundwater : <u>>100'</u> Nearest Water Source : <u>>1000'</u> Nearest Surface Water : <u>>1000'</u> Nearest Ephemeral Stream : <u>>1000'</u> EPO Ranking Score : <u>0</u> TPH Closure Standard : <u>5000</u></p> <p>Comments : <u>Top soil - 12' Soil is moist, clay/sand, with a moderate hydrocarbon odor, and gray/black staining.</u> <u>12' Bedrock encountered.</u> <u>Excavation of east and west walls was limited due to surface equipment.</u> <u>A sample from the east wall @ 7 was sent to IML for GRO/DRO and BTEX analysis.</u></p>		<p>Overview of Location and Sampling :</p>  <p>Wellhead</p> <p>Separator</p> <p>Fiberglass Pit</p> <p>Earthen Pit</p> <p>Production Tank</p> <p>Fiberglass Pit</p> <p>Meter Run</p> <p>Surface Gradient</p>	
<p>Pit Profile : North to South :</p>  <p>North</p> <p>South</p>		<p>Pit Profile : East to West :</p>  <p>East</p> <p>West</p>	

Environmental Specialist : VC

Cimarron Oilfield Services

Frank McDonald
Cimarron Oilfield Service Co.
P. O. Box 3235
Farmington, NM 87401

July 31, 1998


Mr. McDonald:

Enclosed, please find the reports for the samples submitted for Taurus Exploration to our laboratory on July 21, 1998.

If you have any questions about the result of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Sincerely,



Sharon Williams
Organics Lab Supervisor

Enclosure

xc: File

GASOLINE RANGE ORGANICS - GRO**Taurus Exploration U.S.A., Inc.**

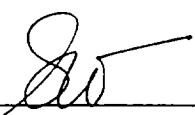
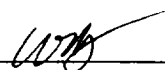
Project ID:	Jicarilla 94-6A Sep. Pit	Report Date:	07/30/98
Sample ID:	E. Wall @ 7'	Date Sampled:	07/17/98
Lab ID:	0398G04066	Date Received:	07/21/98
Sample Matrix:	Soil	Date Analyzed:	07/29/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	29	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	52	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 94-6A Sep. Pit	Report Date:	07/30/98
Sample ID:	E. Wall @ 7'	Date Sampled:	07/17/98
Lab ID:	0398G04066	Date Received:	07/21/98
Sample Matrix:	Soil	Date Analyzed:	07/29/98
Condition:	Cool/Intact		

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

Diesel-Range Petroleum Hydrocarbons


< 5.0

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 94-6A Sep. Pit	Report Date:	07/30/98
Sample ID:	E. Wall @ 7'	Date Sampled:	07/17/98
Lab ID:	0398G04066	Time Sampled:	10:55
Sample Matrix:	Soil	Date Received:	07/21/98
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	07/29/98

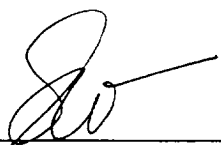
Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	ND	50.0
m,p-Xylenes	ND	50.0
o-Xylene	ND	50.0

ND - Analyte not detected at the stated detection limit.

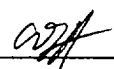
Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	N/A	70%-130%

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.

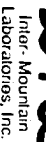
Comments: N/A=Data not available.



Analyst



Review

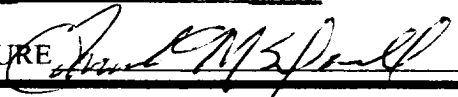
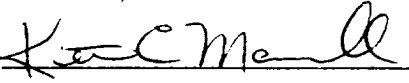


CHAIN OF CUSTODY RECORD

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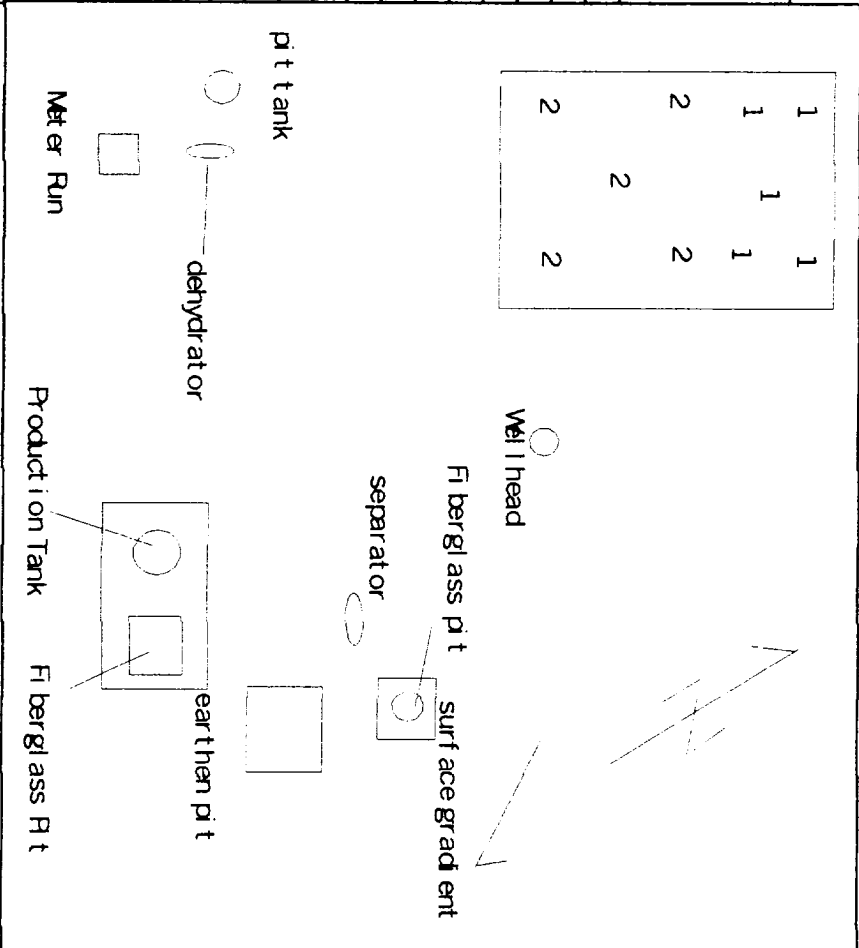
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

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 94-6A</u>	
Location: Unit or Qtr/Qtr Sec <u>P</u> Sec <u>27</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 9, 1998</u> Date Completed: <u>November 13, 1998</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>308</u>	
Composted _____	
Other _____	
<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>0950</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>1.9</u></p> <p>TPH (ppm) <u><10</u> Method <u>8015</u></p> <p>Other: _____</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>12/9/98</u> PRINTED NAME <u>FRANK MCDONALD</u></p> <p>SIGNATURE <u></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 _____ (REASON) <u>use as Backfill</u></p> <p>SIGNED: <u></u> DATE: <u>12-28-98</u></p>	

Client : Taurus Exploration USA Inc.

Date Started : July 9, 199 Date Completed : November 13, 1998

Location : Jicarilla 94-6A			Overview of Landfarm and Sampling :																																									
Quad : P Section : 27																																												
Township: 27 N Range: 3 W																																												
Pit :	Separator	<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OVIM</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>1.9</td></tr><tr><td>2</td><td>Comp 2</td><td>0.9</td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>7</td><td></td><td></td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>9</td><td></td><td></td></tr><tr><td>10</td><td></td><td></td></tr><tr><td>11</td><td></td><td></td></tr><tr><td>12</td><td></td><td></td></tr></tbody></table>	Sample #	Location	OVIM	1	Comp 1	1.9	2	Comp 2	0.9	3			4			5			6			7			8			9			10			11			12					
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12																																												
Reference 80' N 80' W																																												
Size : 100' x 80' x 1' deep																																												
Yds : 308																																												
2 5 - Point Composites																																												
Comments : Soil is moist, brown, clay/loam with no visible staining or detectable hydrocarbon odor. A sample from composite # 1 was sent to IML for GRO/DRO analysis.																																												
Environmental Specialist : JE																																												

Ranking Score : 0 Closure Standard : 5000 ppm

Cimarron Oilfield Services

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

Project ID:	Jicarilla 94-6A	Report Date:	11/23/98
Sample ID:	Land Farm Comp. #1	Date Sampled:	11/13/98
Lab ID:	0398G06695	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	92%	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 94-6A	Report Date:	11/23/98
Sample ID:	Land Farm Comp. #1	Date Sampled:	11/13/98
Lab ID:	0398G06695	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	79%	70-130

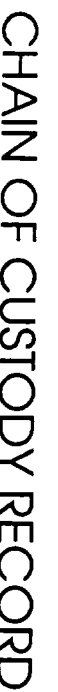
ND - Analyte not detected at the stated detection limit.

Reference:**Comments:**

Reported By:



Reviewed By:



CHAIN OF CUSTODY RECORD

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