

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

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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 183-12		
Location:	Unit or Qtr/QTR Sec "K" Sec 22, T 23 N, R 3 W County Rio Arriba		
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit
Land Type:	Range		
Pit Location:	Pit dimensions: length: 25 ft width: 25 ft depth: 20 ft		
(Attach Diagram)			
Reference:	wellhead: X other:		
Footage from reference:	20 feet		
Direction from reference:	75	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

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Pit Remediation and Closure Report

Date Remediation Started:	8/8/98	Date Completed	8/10/98
Remediation Method:	Excavation: <input checked="" type="checkbox"/>	Approx. cubic yd	446
(Check all appropriate sections)	Landfarmed: <input checked="" type="checkbox"/>	Insitu Bioremediation:	
	Other:		
Remediation Location:	On-site: <input checked="" type="checkbox"/>	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: <input checked="" type="checkbox"/>	Yes:	Depth:
Final Pit Closure Sampling:	Sample location: North wall @ 18 feet below surface. Pit bottom and walls were analyzed for Headspace (see attachment).		
(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	18 feet	
	Sample date:	8/10/98	Sample time: 1045
Sample Results:			
Soil:	Water:		
Benzene (ppm)	ND	Benzene (ppb)	
Total BTEX (ppm)	0.19	Toluene (ppb)	
Field Headspace (ppm)	275	Ethylbenzene (ppb)	
TPH (ppm)	<10	Total Xylenes (ppb)	
Groundwater Sample:	Yes:	No: <input checked="" type="checkbox"/>	
(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: <input checked="" type="checkbox"/>	No:	(Reason)
SIGNED:	DATE: 9-2-98		

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

Date Started : August 8, 1998 Date Completed : August 10, 1998

<p>Location : Jicanilla 183 # 12</p> <p>Quad : K Section : 22</p> <p>Range : 3 W Township: 23 N</p> <p>Pit : Abandoned Separator Pit Reference : 20' S 75 E from wellhead</p> <p>Initial Size : 15' x 15' x 2' deep Final Size : 25' x 25' x 20' deep Yds. Excavated : 448 cy</p> <p>Depth to Groundwater: >100'</p> <p>Nearest Water Source: >1000'</p> <p>Nearest Surface Water: >1000'</p> <p>Nearest Ephemeral Stream: >1000'</p> <p>EPO Ranking Score: 0</p> <p>TPH Closure Standard: 5000</p> <p>Comments : Top soil - 8' Soil is moist, dark brown, sandy/loam with some dark staining, and a strong hydrocarbon odor. 8' - 20' Soil is moist, light brown clay/loam with intermittent gray staining and a moderate hydrocarbon odor. 20' Bedrock Excavation was limited on north, west, and south walls due to active gas lines and surface equipment. A sample from the North wall @ 18' was sent to IML for GRO/DRO and BTEX analysis.</p> <p>Pit Profile : North to South :</p> <div style="text-align: center;"> </div>		<p>Overview of Location and Sampling :</p> <div style="text-align: center;"> </div> <p>Pit Profile : East to West :</p> <div style="text-align: center;"> </div>	
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Environmental Specialist : VC

Cimarron Oilfield Services

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:	Jicarilla 183 #12 Sep. Pit	Report Date:	08/24/98
Sample ID:	N. Wall @ 18'	Date Sampled:	08/10/98
Lab ID:	0398G04454	Date Received:	08/11/98
Sample Matrix:	Soil	Date Analyzed:	08/20/98
Condition:	Cool/Intact		

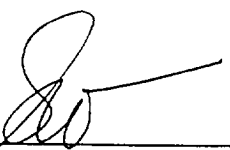
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
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Gasoline-Range Petroleum Hydrocarbons	<5.0	5.0 mg/kg
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ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 183 #12 Sep. Pit	Report Date:	08/17/98
Sample ID:	N. Wall @ 18'	Date Sampled:	08/10/98
Lab ID:	0398G04454	Date Received:	08/11/98
Sample Matrix:	Soil	Date Analyzed:	08/14/98
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 183 #12 Sep. Pit
Sample ID: N. Wall @ 18'
Lab ID: 0398G04454
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 08/24/98
Date Sampled: 08/10/98
Time Sampled: 10:45
Date Received: 08/11/98
Date Extracted: NA
Date Analyzed: 08/20/98


Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	114	50.0
m,p-Xylenes	76.5	50.0
o-Xylene	64.5	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	114%	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.

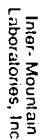
Comments:



Analyst



Review

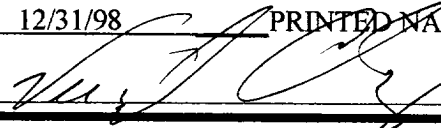
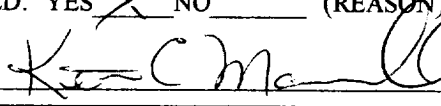


CHAIN OF CUSTODY RECORD

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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 183 - 12</u>	
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>22</u> T <u>23</u> N <u>R</u> <u>3</u> W County <u>Sandoval</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>8/8/98</u> Date Completed: <u>12/1/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>446</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>12/1/98</u> Time: <u>08:15</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>1.5</u></p> <p>TPH (ppm) <u><18</u> Method <u>8015</u></p> <p>Other: <u> </u></p>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>12/31/98</u> PRINTED NAME <u>VIRGIL CHAVEZ</u>	
SIGNATURE <u></u> AND TITLE <u>ENV. SPECIALIST</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>we are Backfill</u>	
SIGNED: <u></u> DATE: <u>1-4-99</u>	



GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:	Jicarilla 183-12 Landfarm	Report Date:	12/31/98
Sample ID:	Composite #1	Date Sampled:	12/02/98
Lab ID:	0398G06953	Date Received:	12/02/98
Sample Matrix:	Soil	Date Analyzed:	12/29/98*
Condition:	Cool/Intact		

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

ND - Analyte not detected at the stated detection limit.

Reference:

Comments: *Sample was analyzed within the holding times, however, due to instrument problems and QC failure, the sample had to be re-analyzed to verify results.


Reported By:


Reviewed By:



DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES


Project ID:	Jicarilla 183-12 Landfarm	Report Date:	12/22/98
Sample ID:	Composite #1	Date Sampled:	12/02/98
Lab ID:	0398G06953	Date Received:	12/02/98
Sample Matrix:	Soil	Date Analyzed:	12/16/98
Condition:	Cool/Intact		

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	13	5.0 mg/Kg

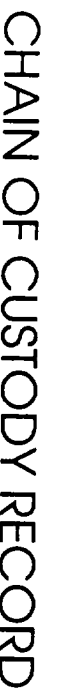
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



CHAIN OF CUSTODY RECORD

CONFIDENTIAL