Denny & Frist DEPUTY OIL & GAS MISPECTOR

AUG O SILLES

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



OIL CON. DIV. DIST. 3

Pit Remediation and Closure Report

يحصون المستقدم								
Operator:	Taurus Explorat				(505)	325-6800		
Address	2198 Bloomfield	Hwy, Fa	arming	ton, NM 87401	·			
Facility or Well		Jicarilla						
Location:	Unit or Qtr/QTR	Sec "I"	Sec	35, T 25 N, R 5 V	√ Cour	nty	Rio.	Arriba
Pit Type:	Separator:	Dehydra	ator:	Other: X - Aba	ndoned	Separator	Pit	
Land Type:	Range		··					
		والمراجعة المراجعة المراجعة						
Pit Location:	Pit dimensions:	length:	20 ft	width: 20 ft	depti	n: 4 ft	_	
(Attach Diagram	1)							
	Reference:	wellhea	d: X	other:				
· ·	e from reference:	100	feet					
Directio	n from reference:	9	90	Degrees	East	North of	X	·
					X West			
						Oodin		
Depth To Groun	dwater:			Less than 50 fe	et	(20 points)		
(Vertical distanc	e from			50 feet to 99 fe		(10 points)		
contaminants to	seasonal		G	reater than 100 fe		(0 points)		0
high water eleva	ations of					()		·····
groundwater)								
Distance to an E	phemeral Stream	n:		Less than 100 fe	ət	(10 points)		
(Downgradient o	dry wash greater t	han	Gı	eater than 100 fe	et	(0 points)		0
ten feet in width)							
ľ	rest Lake, Playa,		ring	Less than 100 fe	et	(10 points)		
_	dient lakes, playa		Gre	eater Than 100 fe	et	(0 points)		0
livestock or wild	life watering pond	s)						
 Wellhead Protec	ction Area:			Υe	s	(20 points)		
(Less than 200 f	eet from a private			N	0	(0 points)		0
domestic water s	source, or less tha	an.				, , ,		
1000 feet from a	ill other water sou	rces)						
Distance To Sur	face Water:			Less than 100 fee	et	(20 points)		
(Horizontal dista	nce to perennial		1	00 feet to 1000 fee		(10 points)		
	ers, streams, cree	∍ks,		ater than 1000 fee		(0 points)		0
irrigation canals	and ditches.)					,		
			F	RANKING SCORE	(TOTA	L SCORE):		0

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Pit Remediation and Closure Report

Date Remediation Started:	8/3/98	Date Completed	d 8/3/98
Remediation Method:	Excavation:	X	Approx. cubic yaı 43
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation:
sections)	Other:		
Remediation Location:	On-site:	X	Off-site:
(I.e. landfarmed on site,			
name and location of			
off site location)			
General Description of Remedial	Action:	Soil was excava	ated and landfarmed on location.
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit	Sample location	: Pit Bottom @ 4 f	feet below surface (Bedrock). Pit
Closure Sampling:			ice (see attachment).
(If multiple samples,			
attach sample results			
and diagram of sample	Sample depth:	4 feet (Bedrock)	1
locations and depths.)	Sample date:	8/3/98	Sample time: 1410
Sample Results:	•		
Soil:			Water:
Benzene (ppm)	0.166	•	Benzene (ppb)
Total BTEX (ppm)		,	Toluene (ppb)
Field Headspace (ppm)		Etr	hylbenzene (ppb)
	5220 (Bedrock)		otal Xylenes (ppb)
Groundwater Sample:	Yes:	-	No: X
(If yes, attach sample results.)		•	No. 2
· · · · · · · · · · · · · · · · · · ·			
I HEREBY CERTIFY THAT TH	E INFORMATIO	ON AROVE IS T	DI IE AND COMDI ETE TO
THE BEST OF MY KNOWLED			NOL AND COMPLETE TO
	Ob / 11 to	-1	
DATE: 8/25/98			Frank McDonald
97 -1			TATIN WICDONAIG
SIGNATURE:	3/)	AND TITLE	Env. Division Manager
1	Y MATERIAL STATES	/110 111	LITY. DIVISION MANAGEN
AFTER REVIEW OF THE PIT	CLOSURE INFO	ORMATION PIT	CLOSTIBE IS ADDROVED
IN ACCORDANCE TO THE JIC			
, , , , , , , , , , , , , , , , , , ,	7/31 (Imax () 31 / 10	THE HAIDET II.	CLUSURE UNDINAINCE
APPROVED: Yes: X	No:	(Reason) R	A. Attached
SIGNED: L=C 71	1. B		DATE: 8-2-98
SICILLE. TOUR	107		DAIE: V C / U I

Risk Assessment

Taurus Exploration U.S.A., Inc.

Jicarilla 35-12

Abandoned Separator Pit

Depth to Groundwater >50 feet
Distance to Ephemeral Stream >100 feet
Distance to Nearest Lake, Playa, or Watering Pond Closure Limit 5000 ppm

The subject pit was located on hard, well-cemented sandstone at a depth of approximately 4 feet. The initial size of the pit was 15' x 15' x 2' in depth. The stained soil was excavated to a final pit size 20' x 20' x 4' in depth. Excavated soils amounted to approximately 43 cubic yards.

On August 3, 1998 Cimarron Oilfield Services began and completed excavation of the subject pit. Excavation ceased at bedrock at a depth of approximately 4 feet. Headspace analysis of the walls ranged from 121 ppm to 1.1 ppm. Headspace analysis of the pit bottom was 465 ppm. A sample from the bottom was evaluated for Total Petroleum Hydrocarbons (USEPA Method 418.1) and Benzene, Toluene, ethyl-Benzene, and Xylenes (USEPA Method 8020). Analysis of the sample provided Benzene concentration and Total BTEX concentrations within Jicarilla Apache Environmental Protection Office (EPO) Guidelines (0.166 and 6.549 ppm respectively). TPH Concentration is outside the guidelines (5,220 ppm).

Having reached bedrock the subject pit should be considered to have reached "final closure". Taurus Exploration U.S.A. Inc. has removed all soils to the extent practical. Based on the information and the physical location of the pit, there is little to no risk to human health or environment.

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

Date Started: ___August 3, 1998_ Date Completed: ___August 3, 1998_

	Location: Jicanilla 35-12
CINCIPAL OF THE	
	Jicarilla 35 - 12
	Jicarilla 35 - 12
	Jicanila 35 - 12
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	Jicarilla 35 - 12 / 20 ft /
	Jicarilla 35 - 12 , 20 ft ,
/11789/	n : Jicarilla 35 - 12 / 20 ft /
/4/11/	n : Jicarilla 35 - 12 / 20 ft/
/11/2011/	on : Jicarilla 35 - 12 /20 ft/
Section: 36	n: Jicarilla 35-12 /20 ft/
35	n : Jicarilla 35 - 12 / 20 ft
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Section: 35 5 W Township: 25 N oned Separator Pit 100' N 90 W 1 N. Wall @ 3' 1.1 Fiberglass Pit 15' x 15' x 2' deep 3 E. Wall @ 3' 121 From wellhead 2 S. Wall @ 3' 121 From York Section: 35 Production Tank Fiberglass Pit 27.2	Jicarilla 35 - 12 1 Section: 35 5 W Township: 25 N 100' N 90 W 1 N. Wall @ 3' 1.1 15' x 15' x 2' deep 3 E. Wall @ 3' 121 70 Production Tank 1 N. Wall @ 3' 121 15' x 15' x 2' deep 3 E. Wall @ 3' 121
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Section: 35 Township: 25 N Township: 25 N Sample # Location OVM 1 N Wat @ 3 1.1 Production Tank Fiberglass Pit 2 'deep 4' deep 4' deep 5 C.Bm.@ 4' 465 Farthen Pit Senarator Senarator	Section : 35
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Section: 35 Township: 25 N Township: 25 N Sample # Location OVM 1 N. Wait @ 3' 1.1 Production Tank Fiberglass Pit 2' deep 4' deep 4 W. Wait @ 3' 121 Fiberglass Pit 5 C. Brm. @ 4' 485 Farthen Pit Fiberglass Pit	Section: 35 Township: 25 N rator Pit Sample # Location OVM W 1 N. Wall @ 3 1.1 lead 2 S. Wall @ 3 27.2 2' deep 4 W. Wall @ 3 37.1 4' deep 5 C. Brm. @ 4' 485 Fiberglass Pit 27.2 Earthen Pit Pit
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Section: 35 Township: 25 N Township: 25 N Fiberglass Pit Sample # Location OVM 1 N. Well @ 3 1.1 Production Tank Fiberglass Pit 1 N. Well @ 3 1.1 Fiberglass Pit Fib	Section : 35

Environmental Specialist : __VC_

Cimarron Oilfield Services

Page 1 of 1

2506 W. Main Street Farmington, New Mexico 87401

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 418.1

Client:

Taurus Exploration U.S.A., Inc.

Project:

Jicarilla 35-12 Sep. Pit

Matrix:

Soil

Condition: Intact/Cool

Date Reported:

08/13/98

Date Sampled:

08/03/98

Date Received: Date Extracted:

08/04/98 08/13/98

Date Analyzed:

08/13/98

Sample ID	Lab ID	Result mg/kg	Detection Limit mg/kg	
C. Bottom @ 4'	0398G04345	5,220	198.0	

ND - Analyte not detected at stated detection level.

Method 418.1:

Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550:

Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

VOLATILE AROMATIC HYDROCARBONS

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 35-12 Sep. Pit

Sample ID:

C. Bottom @ 4'

Lab ID:

0398G04345

Sample Matrix: Condition:

Soil

Cool/Intact

Report Date:

08/12/98

Date Sampled:

08/03/98

Time Sampled: Date Received:

10:40am

Date Extracted:

08/04/98 NA

Date Analyzed:

08/11/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	166	10.0
Toluene	ND	50.0
Ethylbenzene	5700	50.0
m,p-Xylenes	204	50.0
o-Xylene	479	50.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Bromofluorobenzene

79%

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

2506 W Main Street Farmington, New Mexico 87401

Quality Assurance / Quality Control Total Petroleum Hydrocarbons

Client:

Taurus Exploration U.S.A., Inc.

08/13/98

Project:

Jicarilla 35-12 Sep. Pit

Date Reported: Date Sampled:

08/03/98

Matrix:

Soil

Date Received:

08/04/98

Condition:

Intact/Cool

Date Extracted:

08/13/98

Date Analyzed:

08/13/98

Duplicate	Ana	lysis

Lab ID	Sample Result	Duplicate Result	Units	%Difference
G04478	851	825	mg/kg	3.1%

Method Blank Analysis

Lab ID	Result	Units	Detection Limit
Method Blank	ND	mg/kg	20.0

Spike Analysis

Lab ID	Found Conc. mg/kg	Sample Conc. mg/kg	Spike Amount mg/kg	Percent Recovery	Acceptance Limits
мв	220	ND	250	88%	70-130%

Known Analysis

Lab ID	Conc. mg/kg	Conc. mg/kg	Recovery	Limits
QO	25.1	26.0	96%	70-130%

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW -846, rev.1, July 1992.

Reveiwed By



CHAIN OF CUSTODY RECORD

54834	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450		σ	1701 Phillips Circle Gillette, Wyorning 82718 Telephone (307) 682-8945	1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
		s, Inc.	Inter-Mountain Laboratories, Inc.	Inter-Mounta)
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			Project Location	Pro		Client/Project Name

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Taurus Exploration USA Inc. Telephone: (505) 325 - 6800				
Address: 2198 Bloomfield Hwy, Farming	ton N.M. 87401			
Facility or Well Name: <u>Jicarilla 35-12</u>				
Location: Unit or Qtr/Qtr Sec_I_Sec_3	5 T 25 N R 5 W County Rio Arriba			
Land Type: Range				
Date Remediation Started: 8/3/98 Date	e Completed: 12/1/98			
Remediation Method: Landfarmed X				
Composted				
Other				
Depth to Groundwater: (pts) 0	Final Closure Sampling:			
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>12/1/98</u> Time: <u>11:00</u>			
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:			
Wellhead Protection Area (pts)0	Field Headspace (ppm) 3.6			
Distance to Surface Water (pts)0	TPH (ppm) <10 Method 8015 Other:			
RANKING SCORE (TOTAL POINTS): 0				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 1/6/99 PRINTED NAME VIRGIL CHAVEZ				
SIGNATURE AND TITLE ENV. SPECIALIST				
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA A APPROVED: YESNO (REASON)				
SIGNED: 1-7-99				

Client:

Taurus Exploration USA Inc.

Date Started: August 3, 1998 Date Completed: December 1, 1998

2506 West Main Street, Farmington, NM 87401



Phone (505) 326-4737 Fax (505) 325-4182

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:

Jicarilla 35-12 Landfarm

Sample ID:

Composite #1

Lab ID:

0398G06956

Sample Matrix: Condition:

Soil

Cool/Intact

Report Date:

12/31/98

Date Sampled:

12/02/98

Date Received:

12/02/98

Date Analyzed:

12/29/98*

	1000	GE (M	 	

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:

2506 West Main Street, Farmington, NM 87401

Phone (505) 326-4737 Fax (505) 325-4182

DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES

Project ID:

Jicarilla 35-12 Landfarm

Sample ID: Lab ID:

Composite #1

Cool/Intact

Sample Matrix:

0398G06956

Condition:

Soil

Report Date:

12/31/98

Date Sampled: Date Received: 12/02/98

12/02/98

Date Analyzed:

12/16/98

TPH DIESEL-RANGE (MO		

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:



CHAIN OF CUSTODY RECORD

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