Denny & Fourt DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

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



OIL CON. DIV.

Pit Remediation and Closure Report

1	Aperator:	Taurus Exploga	ion U.S	S.A., Inc	Telephone	e:	(505)	325-6800			
1	Address:	2198 Bloomfield					(000)	020 0000			
7	Facility or Well	Name:		la 99-15				·	·····		
	Location:	Unit or Qtr/QTR	Sec "I"	Sec 2	23, T 26 N, R	3 W	Count	v	Rio	Arriba	
	Pit Type:	Separator:	Dehyd		Other: X -					Alliba	
	Land Type:	Range						coparator	1 10		
	Pit Location:	Pit dimensions:	length:	15 ft	width: 15 f		depth:	10 ft			
	(Attach Diagram))	<u></u>			<u>`</u>	dopui.	1011	-		
		Reference:	wellhe	ad: X	other:						
	Footage	e from reference:		90					-		
	Direction	from reference:		60	Degrees		East	North			
						· · · · · · · · · · · · · · · · · · ·		of		 ,	
						Х	West	South	Х		
L					 		•		^		
	Depth To Ground	dwater:			Less than 50	0 feet	(20 points)			
11	Vertical distance				50 feet to 99			10 points)			
k	contaminants to s	seasonal		Gre	eater than 100		`	(0 points)		0	
ľ	nigh water elevat	ions of						(- pc)			
Ę	groundwater)										
		phemeral Stream		L	ess than 100) feet	(10 points)			
		y wash greater th	nan	Gre	ater than 100) feet	-	(0 points)		0	
te	en feet in width)							, , , , , , , ,			
E	istance to Neare	est Lake, Piaya, d	or Wate	ring L	ess than 100) feet	('	10 points)			
		ient lakes, playas		Grea	iter Than 100) feet		(0 points)		0	ļ
H	vestock or wildlif	e watering ponds	3)					•		· · · · · · · · · · · · · · · · · · ·	
[
ı	Vellhead Protecti					Yes	(2	20 points)			
	Less than 200 fee					No	((0 points)		0	
		ource, or less that						_			
71	000 feet from all	other water sour	ces)								
_	iotopos Ta Ou s	104 .									
	istance To Surfa				ess than 100		(2	0 points)			1
	Horizontal distant				feet to 1000		(1	0 points)			
		rs, streams, creel	KS,	Great	er than 1000	feet	(0 points)_		0	
11 \$	rigation canals ar	na aitcnes.)		_							
_				RA	NKING SCO	RE (T	OTAL S	SCORE):		Ω	

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

Pit Remediation and Closure Report

		STATE CHOCKIO IV	<u>,000, r</u>	
Date Remediation Started:	5/26/98	Date Completed		
Remediation Method:	Excavation:	Х	Approx. cubic yai	81
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation	
sections)	Other:		mora biolomona.	OH.
Remediation Location:	On-site:	X	— Off-site:	
(I.e. landfarmed on site,			Oll-Site.	
name and location of				
off site location)				
General Description of Remedial	Action:	Soil was eveaus	-iod soullocates	•
		OUII WAS GACAYA	ated and landfarmed	on location.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit			O feet below surface.	Diameter
Closure Sampling:	were analyzed f	for Headspace (se	es attachment)	Pit waiis
(If multiple samples,		or readopase (es	e allacinneinj.	
attach sample results				
and diagram of sample	Sample depth:	10 feet		
locations and depths.)	Sample date:		Sample time:	4000
Sample Results:		.,,,,,,	Sample time.	1200
Soil:			<u>Water:</u>	
Benzene (ppm)				
Total BTEX (ppm)		•	Benzene (ppb)	
Field Headspace (ppm)		F#	Toluene (ppb)	
TPH (ppm)			hylbenzene (ppb)	
Groundwater Carry to	Yes:		otal Xylenes (ppb)	
If yes, attach sample results.)	100.	· _'	No: X	
HEREBY CERTIFY THAT TH	E INICODMATIC	N ADOVE IS T		
THE BEST OF MY KNOWLED	E HALOVIAIY I C	 Nu arone 12 11	RUE AND COMPL	ETE TO
The second secon	GE VIAN DEFIE	.F		
DATE: 8/5/98				
A	-		Frank McDonald	
SIGNATURE IN AMIL	10/	AND TITLE.	···	
MOTHER STATE IN A	Dans 1	AND THEE I	Env. Division Mar	nager
FTER REVIEW OF THE DIT (O' OOUDE INIE			
FTER REVIEW OF THE PIT (JLUSUKE INFO	DRMATION PIT	CLOSURE IS APF	PROVED
N ACCORDANCE TO THE JIC	ARILLA APACI	HE TRIBE PIT C	CLOSURE ORDINA	ANCE
APPROVED: Yes:	A. 1	· 		
162./ 1	No: ((Reason)		
SIGNED: Law (n	11.	<i>?</i>	G o	0.0
TOTALD. NOC. C //	1 and	· [DATE: 9-2-	- TX

Pit Profile : North to South : Comments: EPO Ranking Score: Nearest Ephemeral Stream: >1000 TPH Closure Standard: Nearest Water Source: Final Size: 15' x 15' x 10' deep Reference: 90' S 60 W Nearest Surface Water: Depth to Groundwater: Pit: Abandoned Separator Pit Range: Quad Initial Size : 6' x 6' x 2' deep rds. Excavated: 81 cy ocation: Sample from bottom, sent to IML for GRO/DRO analysis. is present. It to bottom, soil is clay loam, brown in color. Top soil is sandy loam, hydrocarbon odor and staining 3₩ from wellhead Jicarilla 99 # 15 1 Township: Section: >1000' ×1000' >100' 5000 0 Sample # 26 N 히크 5 23 S. Wall @ 8 N. Wall @ 8' W. Wall @ 8' Bottom @ 10° Location South MVO 0.8 0.8 0.4 1.8 Pit Profile : East to West : Overview of Location and Sampling **120#** Earthen Pit Fiberglass Pit → Separator Surface Gradient __Wellhead Meter Run → Production Tank West

Environmental Specialist: VC

Cimarron Oilfield Services

Page 1 of 1

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 99-15

Report Date:

07/21/98

Sample ID:

C Bottom @ 10'

Date Sampled:

07/08/98

Lab ID:

0398G03903

Date Received:

07/09/98

Sample Matrix:

Soil

Date Analyzed:

07/10/98

Condition:

Cool/Intact

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

ND - Analyte not detected at the stated detection limit.

Comments:

Reported By:

Reviewed By:

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 99-15

Sample ID: Lab ID:

C Bottom @ 10' 0398G03903

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

07/15/98

Date Sampled: Date Received: 07/08/98 07/09/98

Date Analyzed:

07/15/98

TPH DIESEL-RANGE (MOD EP	A 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:



CHAIN OF CUSTODY RECORD

54532	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737		1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
)s, Inc.	Inter-Mountain Laboratories, Inc.	າter-Mount <i>a</i> ຕ	<u> </u>	
7-9-98 161	May man	(has)				
Date Time	ature)	Received by laboratory: (Signature)	Date Time			Amarica of (orginamic)
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rks	Remarks	ers DIPO	Chain of Custody Tape No.	Chain of Cu		Sampler: (Signature)
··	ANALYSES / PARAMETERS		Jicarilla 99-15		USA Inc	Taurus Exploration
						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	gton N.M. 87401							
Facility or Well Name: <u>Jicarilla 99 – 15</u>								
Location: Unit or Qtr/Qtr Sec_I_Sec_2	23 T 26 N R 3 W County Rio Arriba							
Land Type: Range								
Date Remediation Started: 5/26/98 Date	ate Completed: 2/3/99							
Remediation Method: Landfarmed X	·							
Composted	_							
Other								
Depth to Groundwater: (pts) 0	Final Closure Sampling:							
Distance to an Ephemeral Stream (pts)0	Sampling Date: <u>2/3/99</u> Time: <u>12:30</u>							
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:							
(ps)								
Wellhead Protection Area (pts) 0	Field Headspace (ppm) 1.2							
Wellhead Protection Area (pts)0	TPH (ppm) <23 Method 8015							
Wellhead Protection Area (pts) 0 Distance to Surface Water (pts) 0 RANKING SCORE								
Wellhead Protection Area (pts) 0 Distance to Surface Water (pts) 0 RANKING SCORE	TPH (ppm) <23 Method 8015 Other: VE IS TRUE AND COMPLETE TO THE BEST OF MY							
Wellhead Protection Area (pts) 0 Distance to Surface Water (pts) 0 RANKING SCORE (TOTAL POINTS): 0 I HEREBY CERTIFY THAT THE INFORMATION ABOUT A SURFACE CONTROL OF THE PRINTED NOTE: 2/16/99 PRINTED NOTE: 2/16/99	TPH (ppm) <23 Method 8015 Other: VE IS TRUE AND COMPLETE TO THE BEST OF MY							
Wellhead Protection Area (pts) 0 Distance to Surface Water (pts) 0 RANKING SCORE (TOTAL POINTS): 0 I HEREBY CERTIFY THAT THE INFORMATION ABORDOWN AND BELIEF DATE: 2/16/99 PRINTED N	TPH (ppm) <23 Method 8015 Other: VE IS TRUE AND COMPLETE TO THE BEST OF MY AME VIRGIL CHAVEZ AND TITLE ENV. SPECIALIST EMATION. ON-SITE SOIL REMEDIATION IS PACHE TRIBE PIT CLOSURE ORDINANCE.							

Environmental Specialist : JE Yds: Size: Comments : Soil is moist, dark brown, sandy/loam, with no visible staining or detectable hydrocarbon odor. Pit: Quad: Reference 35' N 40 W from Township: Location: Jicarilla 95-15 5 - Point Composites 20' x 30' x 1' deep wellhead. Separator Pit A sample from composite # 1 was sent to IML for GRO/DRO analysis. 26 N Range Section : Sample # | Location 3 W 10 23 ဖ ထ တ ω Comp 1 OVA M 7.9 Overview of Landfarm and Sampling: seperator surface gradient D. production tank well head land farm north meter run entrance

Client: _

Taurus Exploration USA Inc.

Date Started: May 26, 1998 Date Completed: November 25, 1998

Ranking Score: 0_Closure Standard: 5000 ppm

Cimarron Oilfield Services



Inter-Mountain Laboratories, Inc.

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

Client:

Energen Resources

Project:

Jicarilla 99-15

Sample ID:

Landfarm Comp #1

Lab ID:

0399W00708

Matrix:

Soil

Condition:

Cool/Intact

2506 West Main Street, Farmington, NM 87401

Date Reported: 02/10/99

Date Sampled: 02/03/99 **Date Received:** 02/04/99

Date Analyzed: 02/09/99

Parameter	Analytical Result	PQL	Units		
METHOD 8015 - DRO					
riesel Range Organics riesel Range Organics as Diesel	17	5	mg/Kg		
Diesei Range Organics as Diesei	17	5 mg/Kg			
Quality Control - Surrogate Recovery	%	QC Limits			
o-Terphenyl(SUR-8015)	80	70 - 1			

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By

Sharon Willams, Organic Lab Supervisor



Inter Mountain Laboratories, Inc.

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

Client:

Energen Resources

Project:

Jicarilla 99-15

Sample ID:

Landfarm Comp #1

Lab ID:

0399W00708

Matrix:

Soil

Condition:

Cool/Intact

2506 West Main Street, Farmington, NM 87401

Date Reported: 02/05/99

Date Sampled: 02/03/99

Date Received: 02/04/99

Date Analyzed: 02/05/99

Parameter	Analytical Result	PQL	Units
METHOD 8015 - GRO Gasoline Range Organics Gasoline Range Organics as Gasoline	<5	5	mg/Kg
	<5	5	mg/Kg

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Revision 5, February 1992.

WTPH-G-Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By:

✓Sharon Willams, Organic Lab Supervisor



CHAIN OF CUSTODY RECORD

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Inter-IV 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945			wh										13/4	-		BOOD	
lips Circle Vyoming 8 e (307) 68	-									1			(3,°C)	Time			
[CF-M] 2718 2-8945														Lab N	<u></u>		
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