

Denny E. Frost
DEPUTY OIL & GAS INSPECTOR

MAR 28 1997

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

SUBMIT COPY TO:
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: BURLINGTON RESOURCES Telephone: (505) 326-9700

Address: P.O. BOX 4289, FARMINGTON, NM 87499-4289

Facility or Well Name: Jicarilla 123C # 23 DP # 44352A

Location: Unit or Qtr/Qtr Sec C Sec 05 T 25 R 04 County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit location: Pit dimensions: length 10' width 9.5' depth 2'

(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 16.5

Direction from reference: 353° Degrees ☐ East ☒ North
of
☐ West ☐ South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or: less than
1000 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8-14-96 Date Completed: _____
Remediation Method: Excavation X Approx. cubic yards 291
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavated contaminated material

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location See pit closure verification
Closure Sampling: Sheet
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 19 ft
Sample date 8-14-96 Sample time 1730

Sample Results
Soil: Benzene (ppm) 0.064 Water: Benzene (ppb) _____
Total BTEX (ppm) 25.564 Toluene (ppb) _____
Field Headspace (ppm) 394 Ethylbenzene (ppb) _____
TPH (ppm) 530 Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No X (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 8/14/96 PRINTED NAME CRAIG A. Beck
SIGNATURE C. A. Beck AND TITLE Environmental Representative
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES X NO _____ (REASON) Spray next well/bottom nutrients
SIGNED: Habib? [Signature] DATE: 8/19/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Jicarilla 123 C #23 Lease No. Jicarilla Apache
 Contractor: Philips Env. Consultant Initials: JPD Tribal Cont # 123
 Date Started: 8-14-96 Date Finished:

Excavation & Soil Information

Dimensions (approx.): 18' FT. x 23' FT. x 19' FT. Deep Cubic Yards: 291
 Soil Remediated ☒ On Site ☐ Off Site If off site name location (s)

PIT PERIMETER	PIT PROFILE

OVM Results:								
Sample ID	1	2	3	4	5	6	7	8
Headspace PID (ppm)	32	13	21	215	313	394/comp		
Laboratory Results:								
Sample ID	M6-44352A3-V							
BTEX RM8020 (ppm)	25.564							
TPH RM8015 (ppm)	530							

Notes:

8-14-96

Jic 123 C# 23

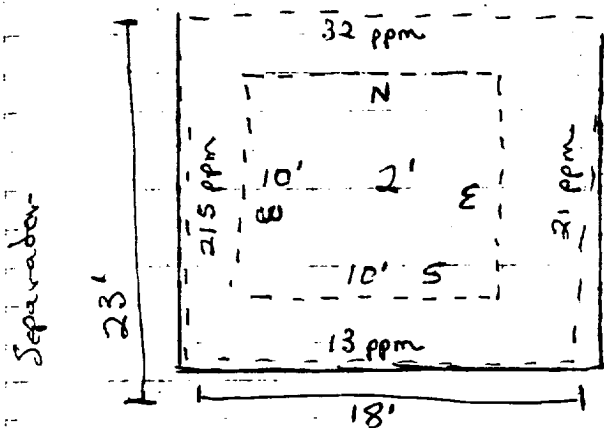
one-call - 76080707530053 - Filled out WORK Permit
on location @ 3:15 PM

Blew Unit down

Took Picture #4 before

44352A- DP
C 5-25N. 4W
2R14- AFE

Guy
Craig
Tim
James
Jason



18 x 23 x 19

Chappel Circle - 5803

Bottom - 313
Composite - 394

19' Deep

Finished @ 5:30 - Move in the morning

Kurt Sandaoul & Keith Maxwell showed up @ 3:45 PM
Real Pleasant - Gave them Ice Cold Pepsi

Land Farm - Wellhead
27' West
Road between Wellhead & Farm
15' → 24' → 69'

Left location @ 5:35 AM

Took Samples to Don's (Philip) and left them - Fuel
Move in the Morning to Jic West #6

8-15-96 Took Picture 1 & 2 @ 7:20 am
(31) (30)

Preliminary ResultsFinal report will be issued
following data review**GAS CHROMATOGRAPHY RESULTS**

TEST : SAMPLE MODIFIED (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 10256
PROJECT NAME : MOI PIT REM.

AEN I.D.: 606334

SAMPLE		DATE		DATE	DATE	DIL
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	MS 42387A-3-V	NON-AQ	8/14/96	8/14/96	8/14/96	10
05	MS 42387A-3-V	NON-AQ	8/14/96	8/14/96	8/14/96	10
		NON-AQ	8/14/96	8/14/96	8/14/96	10
PARAMETER		DET. LIMIT	UNITS	04 ✓	05 ✓	
FUEL HYDROCARBONS, C8-C10		<10	MG/KG	<10	<10	
FUEL HYDROCARBONS, C10-C22		<5.0	MG/KG	<5.0	<5.0	
FUEL HYDROCARBONS, C22-C38		<5.0	MG/KG	<5.0	<5.0	
CALCULATED SUM				N/A	530	
SURROGATE:						
O-TERPHENYL (%)						
SURROGATE LIMITS		(88 - 151)				

CHEMIST NOTES:

3 9/20/96

Preliminary Results

Final report will be issued
following data review

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX MTHB (EPA 8020)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 16256
PROJECT NAME : MOI PIT REM.

AEN I.D.: 608334

SAMPLE		MATRIX	DATE	DATE	DATE	DIL. FACTOR
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
04	MO-44387A-3-V	NON-AQ	8/14/96	8/16/96	8/16/96	1
05	MO-44352A-3-V	NON-AQ	8/14/96	8/16/96	8/16/96	1
PARAMETER		DET. LIMIT	UNITS	04	05	
BENZENE		0.025	MG/KG	< 0.025	0.064	
TOLUENE		0.025	MG/KG	< 0.025	1.6	
ETHYLBENZENE		0.025	MG/KG	< 0.025	3.0	
T L XYLENES		0.025	MG/KG	< 0.025	2.5	
N-ETHYL-BUTYL ETHER		0.13	MG/KG	< 0.13	< 0.13	

SURROGATE:

BROMOFLUOROBENZENE (%)

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES: *SURROGATE OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.

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NATURAL
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ADMINISTRATION

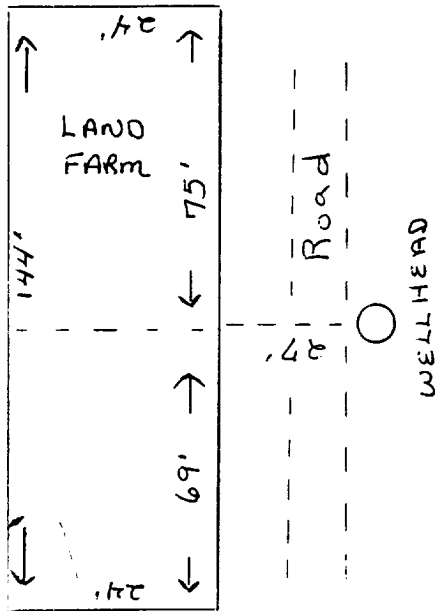
ON-SITE SOIL REMEDIATION REPORT

Operator: <u>BURLINGTON RESOURCES</u>		Telephone: <u>(505) 326-9700</u>	
Address: <u>P.O. BOX 4289, Farmington, NM 87499-4289</u>			
Facility or Well Name: <u>Jicarilla 123 C#23</u>			
Location: Unit: <u>C</u> Sec. <u>05</u> T. <u>25</u> N R. <u>04</u> W County <u>Rio Arriba</u>			
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>8-14-96</u>		Date Completed: _____	
Remediation Method: Landfarmed ☒ Composted ☐ Other ☐		Approx. cubic yards <u>291</u>	
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time <u>2:32pm</u> Sampling Results: Field Headspace (ppm) <u>11</u> TPH (ppm) <u><5</u> Method <u>8015</u> Other _____ Sample No. <u>m6-44352-1-LF</u>	
Distance to an Ephemeral Stream: (pts.) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>			
Wellhead Protection Area: (pts.) <u>0</u>			
Distance to Surface Water: (pts.) <u>0</u>			
Ranking Score (Total Points): <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>9-19-96</u>		PRINTED NAME <u>Guy L. Garretson</u>	
SIGNATURE <u></u>		AND TITLE <u>BR- Lease Operator</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: YES ☒ NO ☐ (REASON) _____			
SIGNED: <u></u>		DATE: <u>10-1-96</u>	

ON-SITE SOIL REMEDIATION DIAGRAM



Location Name: Jicarilla 123 c #23



OFF: (505) 325-5667



LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn: **Craig A. Bock**
Company: **Meridian Oil, Inc.**
Address: **3535 E. 30th Street**
City, State: **Farmington, NM 87401**

Date: **7-Sep-96**
COC No.: **C1986**
Sample No. **12002**
Job No. **2-1000**

Project Name: **Burlington Resources**
Project Location: **M6-44352A-1-LF**
Sampled by: **CAB/GG**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **14:32**
Date: **6-Sep-96**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	< 5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	< 5.0	mg/kg	5.0	mg/kg
	TOTAL	< 5.0		mg/kg

Quality Assurance Report

GRO QC No.: **0493-STD**
DRO QC No.: **0489-STD**

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 50	ppb	1,350	1,254	7.1	15%
Diesel Range (C10 - C28)	< 5.0	ppm	100	110	9.9	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	98	85	(70-130)	10	20%
Diesel Range (C10-C28)	98	114	(70-130)	11	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: 
Date: **9/7/96**