

Denny E. Faust

DEPUTY OIL & GAS INSPECTOR JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

MAR 28 1997

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

ENTERED

Operator: BURLINGTON RESOURCES Telephone: (505) 326-9700
Address: P.O. BOX 4289, FARMINGTON, NM 87499-4289
Facility or Well Name: Jicarilla 98 #2A OP# 29151B
Location: Unit or Qtr/Qtr Sec 0 Sec 19 T 26 R 03 County La Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Apache

Location: Pit dimensions: length 13', width 13', depth 2'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 87'
Direction from reference: 120° Degrees ☐ East ☒ North ☐
☐ West ☐ South ☐

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) 10
high water elevation 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 Pond: Less than 100 feet (10 points)
(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
100 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) 20
irrigation canals and ditches)

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OIL CON. DIV.
DIST. 3

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 8-22-96 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 113
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: Excavated contaminated material

Groundwater Encountered: No ☒ 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 8 Ft
Sample date 8-22-96 Sample time 1345

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>03</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>5.3</u>	Total Xylenes (ppb)	_____

Groundwater Sample: Yes _____ No ☒ (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 8/22/96 PRINTED NAME Guy L. Garretson
SIGNATURE Guy L. Garretson AND TITLE Lease Operator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: [Signature] DATE: 8/30/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Acquilla 98#2A Lease No. NM cont. 09-
 Contractor: Philips Env Consultant Initials: JHD 000098
 Date Started: 8-22-96 Date Finished:

Excavation & Soil Information

Dimensions (approx.): 19' FT. x 20' FT. x 8' FT. Deep Cubic Yards: (bcy) 113
 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)	03	03	03	03	10			
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)						03		

Laboratory Results:			
Sample ID	m6-29151B-2-1/		
BTEX RM8020 (ppm)	ND		
TPH RM8015 (ppm)	5.3		

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 16256
PROJECT NAME : MOI PIT REM.

AEN I.D.: 608353

SAMPLE			DATE	DATE	DATE	DIL
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	M6-29238A-2-V	NON-AQ	8/22/96	8/26/96	8/26/96	1
08	M6-29232A-2-V	NON-AQ	8/22/96	8/26/96	8/27/96	10
09	M6-29151B-2-V	NON-AQ	8/22/96	8/26/96	8/26/96	1

PARAMETER	DET. LIMIT	UNITS	07 ✓	08 ✓	09 ✓
FUEL HYDROCARBONS, C6-C10	10	MG/KG	550	2700	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	510	380	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	180	110	5.3

CULATED SUM 1200 3200 5.3

SURROGATE:
O-TERPHENYL (%)
SURROGATE LIMITS (66 - 151)

116 103 84

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS

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

AEN I.D.: 608353

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	M6-29238A-2-V	NON-AQ	8/22/96	8/26/96	8/27/96	10
08	M6-29232A-2-V	NON-AQ	8/22/96	8/26/96	8/27/96	10
09	M6-29151B-2-V	NON-AQ	8/22/96	8/26/96	8/27/96	1

PARAMETER	DET. LIMIT	UNITS	07 ✓	08 ✓	09 ✓
BENZENE	0.025	MG/KG	< 0.25	0.57	< 0.025
TC ENE	0.025	MG/KG	5.0	12	< 0.025
ET-yl BENZENE	0.025	MG/KG	4.5	2.4	< 0.025
TC AL XYLENES	0.025	MG/KG	46	32	< 0.025
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 1.3	< 1.3	< 0.13

SURROGATE:
BROMOFLUOROBENZENE (%) 92 130* 89
SURROGATE LIMITS (65 - 120)

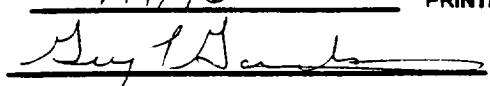
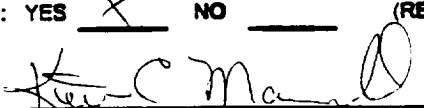
CHEMIST NOTES:

*SURROGATE OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.

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ADMINISTRATION

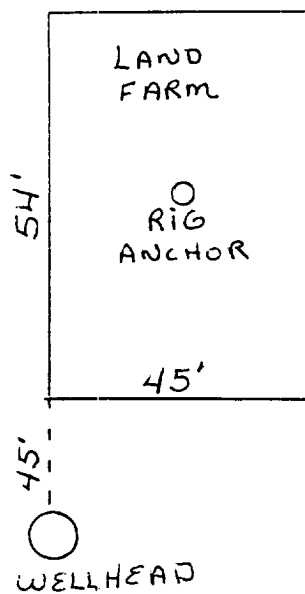
ON-SITE SOIL REMEDIATION REPORT

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 98th 2A</u>		
Location:	Unit: <u>0</u>	Sec. <u>19</u> T. <u>26</u> N. <u>03</u> W. <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>8-22-96</u>		Date Completed: _____
Remediation Method: <u>Landfirmed</u> ☒		Approx. cubic yards: <u>113</u>
Composted ☐		
Other ☐		
Depth to Ground Water: (pts.) <u>10</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time: <u>12:00 p.m.</u> Sampling Results: Field Headspace (ppm): <u>6.5</u> TPH (ppm): <u>16.2</u> Method: <u>8015</u> Other: _____ Sample No.: <u>m6-29151B-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>20</u>		
Ranking Score (Total Points): <u>30</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. Garrettson</u>
SIGNATURE: <u></u>		AND TITLE: <u>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 98 #2A



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.: **C1985**
 Sample No. **11996**
 Job No. **2-1000**

Project Name: **Burlington Resources**
 Project Location: **M6-29151B-1-LF**
 Sampled by: **CAB/GG**
 Analyzed by: **DC**
 Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **12:00**
 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)	16.2	mg/kg	5.0	mg/kg
	TOTAL	16.2		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	1,276	5.5	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: *[Signature]*
 Date: **9/17/96**