

Deputy Oil & Gas Inspector

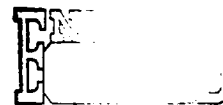
DEPUTY OIL & GAS INSPECTOR JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE

MAR 28 1997

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 67#12 DP#52301A

Location: Unit or Qtr/Qtr Sec D^D Sec 19 T 25 R 05 County Rio Arriba

Pit Type: Separator ☐ Dehydrator ☐ Other unknown

Land Type: Jicarilla Apache

Pit location: Pit dimensions: length 10', width 9', depth 2'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 19'

Direction from reference: 05° Degrees _____ East North X
_____ 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) 20

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) 10

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) 10

RANKING SCORE (TOTAL POINTS): 40

Remediation Started: 8-16-96 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 144
(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 sheet
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 12 Ft
Sample date 8-16-96 Sample time 0930

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>04</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>ND</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 8-16-96 PRINTED NAME CRAIG A. Beck

SIGNATURE Craig 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 ☒ NO _____ (REASON) _____

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

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Sicaria 67 #12 Lease No. Sicaria Apache
 Contractor: Philips ENV Consultant Initials: JRP Tribal cont. #67
 Date Started: 8-16-95 Date Finished: _____

Excavation & Soil Information

Dimensions (approx.): 18' FT. x 18' FT. x 12' FT. Deep Cubic Yards: 144
 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)	0	1	02	0	0	04		
Laboratory Results:								
Sample ID	m6-52301A-3-V							
BTEX RM8020 (ppm)	ND							
TPH RM8015 (ppm)	ND							

Notes:

GAS CHROMATOGRAPHY RESULTS

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

AEN I.D.: 608339

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	M6-50710A-2-3-V	NON-AQ	8/15/96	8/20/96	8/20/96	1
02	M6-52301A-3-V	NON-AQ	8/16/96	8/20/96	8/20/96	1
03	M6-53082A-3-V	NON-AQ	8/16/96	8/20/96	8/20/96	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	650	< 10	< 10
FLUOR HYDROCARBONS, C10-C22	5.0	MG/KG	8.6	< 5.0	< 5.0
FLUOR HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0

CALCULATED SUM 660 N/A N/A

SURROGATE:
 O-TERPHENYL (%) 101 100 100
 SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:
 N/A

GAS CHROMATOGRAPHY RESULTS

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

AEN I.D.: 608339

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	M6-50710A-2-3-V	NON-AQ	8/15/96	8/21/96	8/21/96	1
02	M6-52301A-3-V	NON-AQ	8/16/96	8/21/96	8/21/96	1
03	M6-53082A-3-V	NON-AQ	8/16/96	8/21/96	8/21/96	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
BENZENE	0.025	MG/KG	0.16	< 0.025	< 0.025
TOLUENE	0.025	MG/KG	2.6	< 0.025	< 0.025
ETHYLBENZENE	0.025	MG/KG	0.60	< 0.025	< 0.025
TOTAL XYLENES	0.025	MG/KG	5.3	< 0.025	< 0.025
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 0.13	< 0.13	< 0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

79

99

96

SURROGATE LIMITS (65 - 120)

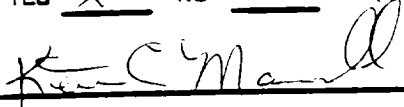
CHEMIST NOTES:

N/A

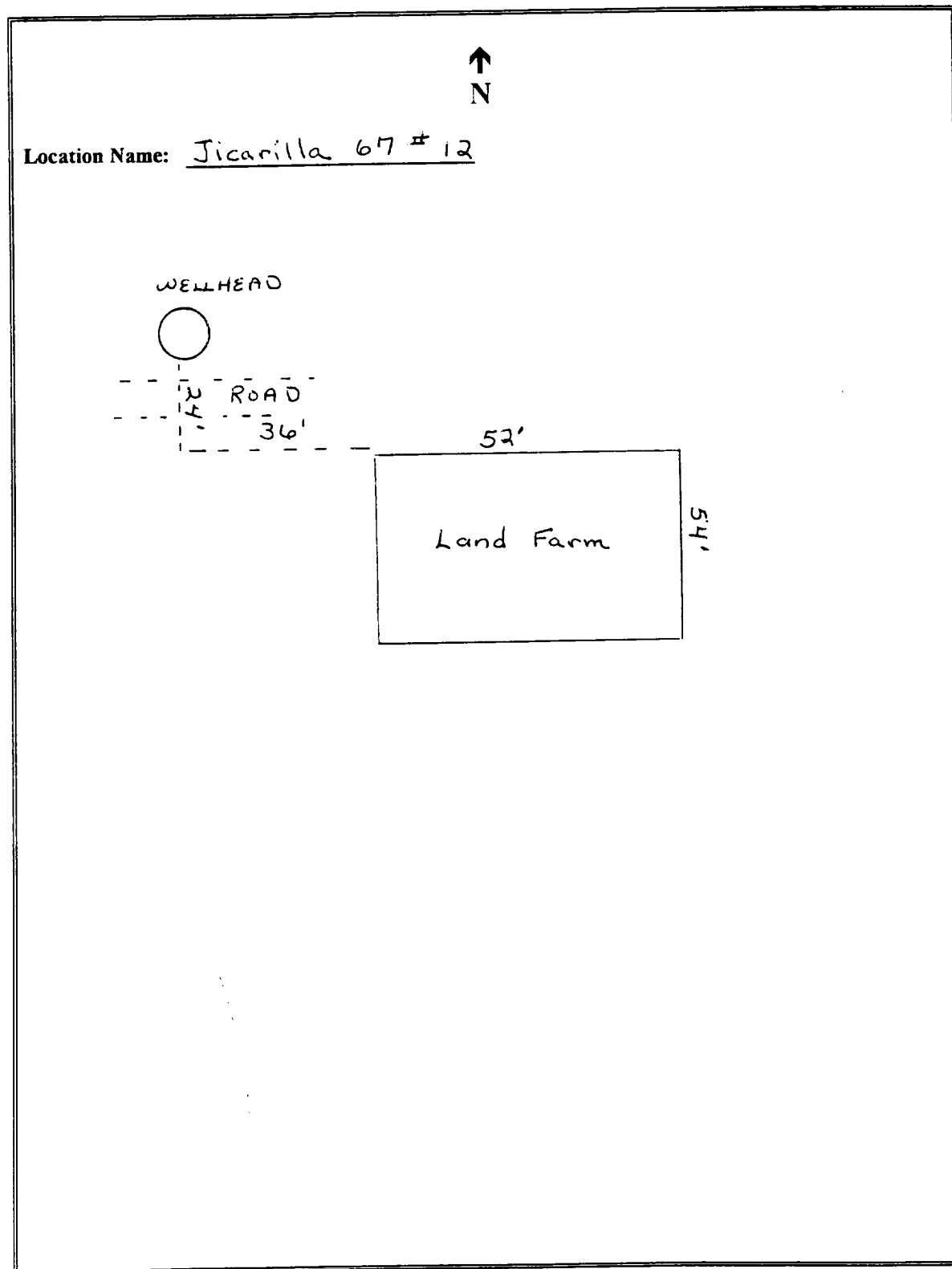
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NATURAL
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AND OIL GAS
ADMINISTRATION

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 67 #12</u>		
Location:	Unit: <u>D</u>	Sec. <u>19</u> T. <u>25 N</u> R. <u>05 W</u> County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>8-16-96</u>		Date Completed: _____
Remediation Method: <u>Landfarmed</u> ☒		Approx. cubic yards <u>144</u>
Composted ☐		
Other ☐		
Depth to Ground Water: (pts.) <u>20</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time <u>3:40pm</u> Sampling Results: Field Headspace (ppm) <u>2.5</u> TPH (ppm) <u><5</u> Method <u>8015</u> Other _____ Sample No. <u>m6-52301A-1-LF</u>
Distance to an Ephemeral Stream: (pts.) <u>10</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>10</u>		
Ranking Score (Total Points): <u>40</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



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. **12004**
 Job No. **2-1000**

Project Name: **Burlington Resources**
 Project Location: **M6-52301A-1-LF**
 Sampled by: **CAB/GG**
 Analyzed by: **DC**
 Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **15:40**
 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**