

Benjamin A. 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

ENTERED

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

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

Facility or Well Name: Jicarilla 120 C #8 DP # 52035 A

Location: Unit or Qtr/Qtr Sec 6 Sec 30 T 26 R 04 County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 10.5', width 11', depth 3.5'

(See diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 99'

Direction from reference: 305° Degrees ☐ East ☒ North
☐ 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) 10

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:

(Shortest 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): 10

Date Remediation Started: 8-14-96 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 367

(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: Aug to 19 Ft, moved separator due to sluff off possibility

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 19 Ft

Sample date 8-14-96 Sample time 1000

Sample Results

Soil: Benzene (ppm) <0.025 Water: Benzene (ppb) _____

Total BTEX (ppm) 2.04 Toluene (ppb) _____

Field Headspace (ppm) 357 Ethylbenzene (ppb) _____

TPH (ppm) 22 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 8-14-96 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 ☒ NO _____ (REASON) _____

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

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Acarilla 120 C # 8 Lease No. Acarilla Contract #120
 Contractor: Philips Env Consultant Initials: [Signature]
 Date Started: 8-14-96 Date Finished:

Excavation & Soil Information

Dimensions (approx.): 29' FT. x 18' FT. x 19' FT. Deep Cubic Yards: 367
 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)	34	460	163	08	397	357			
Laboratory Results:		comp							
Sample ID	ml-52035A-3-V								
BTEX RM8020 (ppm)	2.04								
TPH RM8015 (ppm)	2.2								

Notes:

AEN

Latest Lab Results

Preliminary Results

Final report will be issued
following data review

ENTERED

GAS CHROMATOGRAPHY RESULTS

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

AEN I.D.: 608334

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MS-40519A-2-V	NON-AQ	8/13/96	8/15/96	8/16/96	
02	MS-52164A-3-V	NON-AQ	8/13/96	8/15/96	8/16/96	
03	MS-52035A-3-V	NON-AQ	8/14/96	8/15/96	8/16/96	
PARAMETER	DET. LIMIT	UNITS	01	02	03	
BENZENE	0.025	MG/KG	< 0.025	0.056	< 0.025	
TOLUENE	0.025	MG/KG	< 0.025	0.03	0.02	
XYLBENZENE	0.025	MG/KG	< 0.025	0.02	0.02	
TOTAL XYLENES	0.025	MG/KG	< 0.025	0.03	0.02	
METHYL BUTYLETHYL	0.13	MG/KG	< 0.13	< 0.13	< 0.13	

SURROGATE:

BROMOFLUOROBENZENE (%)

SURROGATE LIMITS (65 - 120)

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



Preliminary Results
Final report will be issued
following data review

Post-it Fax Note	7671	Date	# of pages
To	Craig Bock	From	Don Fennell
Co./Dept.		Co.	
Phone #		Phone #	326-2262
Fax #	326-9537	Fax #	

GAS CHROMATOGRAPHY RESULTS

TEST : ~~CONFIDENTIAL~~ (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 18258
PROJECT NAME : MOI PIT REM.

AEN I.D.: 608334

PROJECT NAME		MOI PIT REM.		DATE		DATE		DATE		DIL. FACTOR	
SAMPLE		MATRIX		SAMPLED		EXTRACTED		ANALYZED			
ID. #	CLIENT I.D.										
10518A-2-V	MOI 10518A-2-V	NON-AQ		8/1/95		8/1/95		8/1/95			
10518A-3-V	MOI 10518A-3-V	NON-AQ		8/1/95		8/1/95		8/1/95			
10518A-3-V	MOI 10518A-3-V	NON-AQ		8/1/95		8/1/95		8/1/95			
PARAMETER		DET. LIMIT		UNITS		01		02		03	
L HYDROCARBONS, C6-C10		<10		MG/KG		< 10		800		< 5.0	
FUEL HYDROCARBONS, C10-C22		<5.0		MG/KG		< 5.0		50		< 5.0	
FUEL HYDROCARBONS, C22-C36		<5.0		MG/KG		< 5.0		< 5.0		< 5.0	
CALCULATED SUM						N/A		830		22	
SURROGATE:											
O-TERPHENYL (%)											
SURROGATE LIMITS											
(68 - 151)											

CHEMIST NOTES:

7/20/96

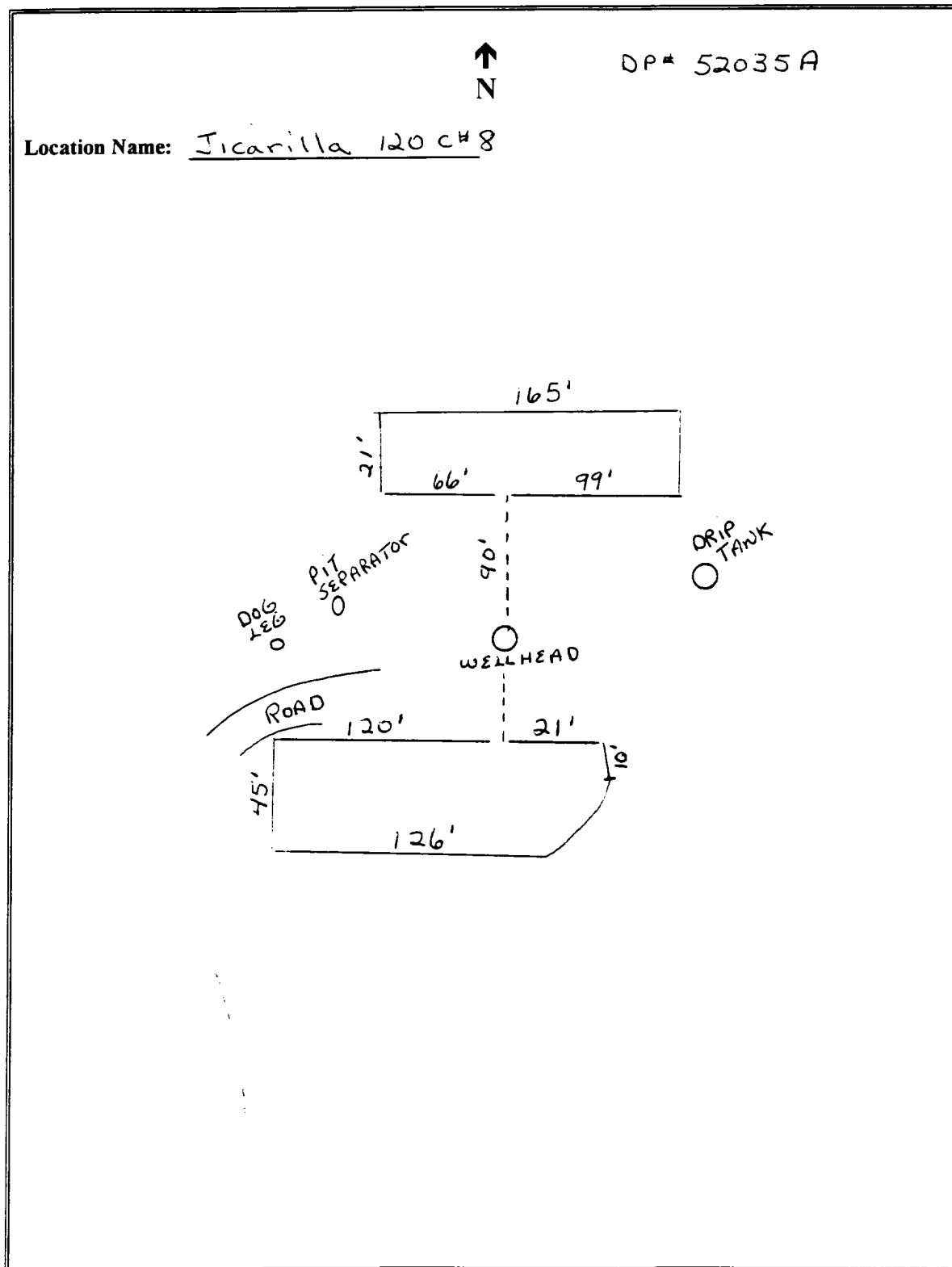
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NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

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 120 C# 8</u>		
Location:	Unit: <u>G</u>	Sec. <u>30</u> T. <u>26 N</u> R. <u>04 W</u> County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>8-13-96</u>		Date Completed: _____
Remediation Method: <u>Landfirmed</u> ☒		Approx. cubic yards <u>367</u>
<u>Composted</u> ☐		
<u>Other</u> _____		
Depth to Ground Water: (pts.) <u>10</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time <u>4:20p</u> Sampling Results: Field Headspace (ppm) <u>60</u> TPH (ppm) <u>33.6</u> Method <u>8015</u> Other _____ Sample No. <u>M6-52035A-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>10</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>Guy L. Garretson</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>Ken C. Merrill</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. **11999**
 Job No. **2-1000**

Project Name: **Burlington Resources**
 Project Location: **M6-52035A-1-LF**
 Sampled by: **CAB/GG**
 Analyzed by: **DC**
 Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **14:10**
 Date: **6-Sep-96**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	15.5	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	18.1	mg/kg	5.0	mg/kg
TOTAL	33.6	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	112	11.8	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: *Jack*
 Date: *9/7/96*