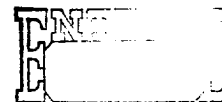


DEPUTY OIL & GAS INSPECTOR JICARILLA APACHE TRIBE
MAR 28 1997 ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

Approval _____

PIT REMEDIATION AND CLOSURE REPORT



Land Type: Jicarilla Apache

RECEIVED
MAR 25 1997
OIL CON. DIV.
DIST. 3

Pit location: Pit dimensions: length 15', width 14', depth 2'
(Attach diagram)

Reference: wellhead 170°, other _____

Footage from reference: 21'

Direction from reference: 170° Degrees _____ East North X
West South _____

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)

20

RANKING SCORE (TOTAL POINTS): 20

Remediation Started: 8-13-96 Date Completed: _____
Remediation Method: Excavation X Approx. cubic yards 193
Check all appropriate (ions) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite X Offsite _____
(landfarmed onsite, name and location of site facility)

General Description of Remedial Action: Excavated contaminated material

Groundwater Encountered: No X Yes _____ Depth _____

Pit Closure Sampling: Sample location See pit closure verification sheet
multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 13 ft
Sample date 8-13-96 Sample time 1030

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>400</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>ND</u>	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 8-13-96 PRINTED NAME CRAIG A. Bock
SIGNATURE Craig A. Bock 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) _____

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

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Picarilla 117 E #9A DP# 40519A Lease No. Picarilla Apache
 Contractor: Philip Env Consultant Initials: PH Tribal cont # 117
 Date Started: 8-13-96 Date Finished: _____

Excavation & Soil Information

Dimensions (approx.): 20' FT. x 20' FT. x 13' FT. Deep Cubic Yards: (bcy) 193
 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)	280	60	881	35	193	04	85	
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)						416	400	

Laboratory Results:			
Sample ID	m6-40519A-2-V		
BTEX RM 8260 (ppm)	ND		
TPH RM8015 (ppm)	ND		

3/20/98

13:11

5033262388

PHILIP ENVIRON. →→→ CRAIG BOCK

001

Post-it Fax Note

7671

Date

of
pages

52

To

Craig Bock

From

Don Jermol

Co./Dept.

Co.

Phone #

Phone #

326-2262

Fax #

326-9537

Fax #

Preliminary Results
Final report will be issued
following data review

GAS CHROMATOGRAPHY RESULTS

TEST
CLIENT
PROJECT #
PROJECT NAME

UNIDENTIFIED (DIRECT INJECT)
PHILIP ENVIRONMENTAL
18258
MOI PIT REM.

AEN I.D.: 808334

SAMPLE	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #		NON-AQ				
10519A-2-V		NON-AQ				
12164A-3-V		NON-AQ				
50335A-3-V		NON-AQ				
PARAMETER	DET. LIMIT	UNITS	01	02	03	
HYDROCARBONS, C6-C10	<10	MG/KG	<10	<10	<10	
HYDROCARBONS, C10-C22	<5.0	MG/KG	<5.0	<5.0	<5.0	
FUEL HYDROCARBONS, C22-C36	<5.0	MG/KG	<5.0	<5.0	<5.0	
CALCULATED SUM			N/A	830	22	

CALCULATED SUM

SURROGATE:
O-TERPHENYL (%)
SURROGATE LIMITS

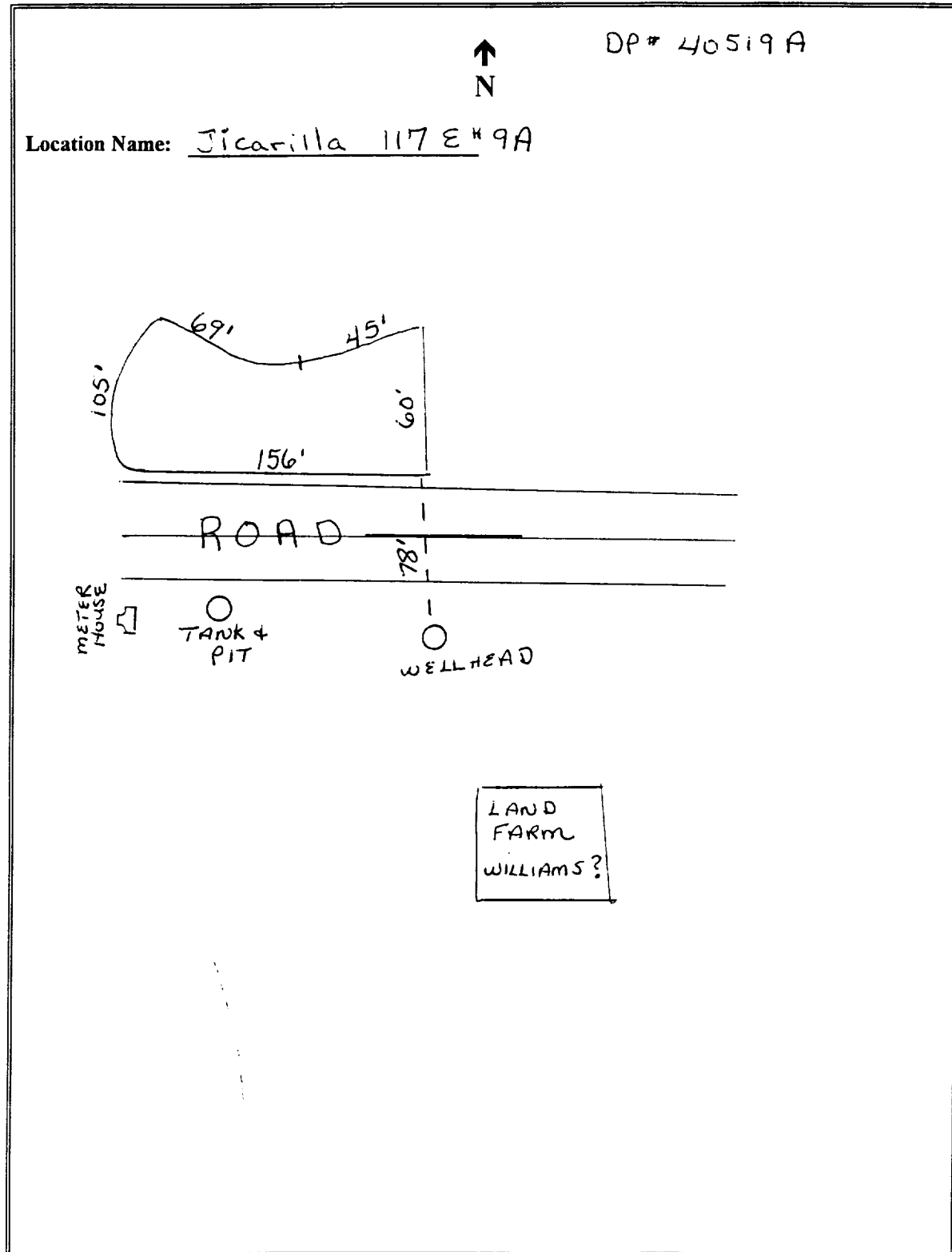
(88 - 151)

CHEMIST NOTES:



3/20/98

ON-SITE SOIL REMEDIATION DIAGRAM



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

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: BURLINGTON RESOURCES Telephone: (505) 326-9700
Address: P.O. BOX 4289, Farmington, NM 87499-4289
Facility or Well Name: Jicarilla 117 E # 9A
Location: Unit: C Sec. 33 T. 26 N R. 03 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 8-13-96 Date Completed: _____
Remediation Method: Landfirmed ☒ Approx. cubic yards 193
Composted ☐
Other ☐

Depth to Ground Water: (pts.) 0
Distance to an Ephemeral Stream: (pts.) 0
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance to Surface Water: (pts.) 20
Ranking Score (Total Points): 20

Final Closure Sampling:

Sampling Date: 9-4-96 Time 12:55 pm
Sampling Results:
Field Headspace (ppm) 21
TPH (ppm) 50.4 Method 8015
Other _____
Sample No. M6-40519-1-LF

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9/19/96 PRINTED NAME Guy L. Garretson
SIGNATURE Guy L. Garretson AND TITLE Lease Operator

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: Kent C. Marshall DATE: 10-1-96

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. **11997**
 Job No. **2-1000**

Project Name: **Burlington Resources**
 Project Location: **M6-40519-1-LF**
 Sampled by: **CAB/GG**
 Analyzed by: **DC**
 Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **12:55**
 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)	50.4	mg/kg	5.0	mg/kg
	TOTAL	50.4		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*