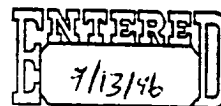


Don't forget
DEPUTY OIL & GAS INSPECTOR

MAR 28 1997

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

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 West #6 AP# 50710A-3 Pit #1

Location: Unit or Qtr/Qtr Sec D Sec 06 T 26 R 05 County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 7' width 7' depth 2.5'
(attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 233'

Direction from reference: 180° 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: 8-15-96 Date Completed: _____

Remediation Method: Excavation X Approx. cubic yards 353

(Check all appropriate sections)

Landfarmed X

In situ 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 18 Ft

Sample date 8-15-96 Sample time 1500

Sample Results

Soil: Benzene (ppm) 0.16 Water: Benzene (ppb) _____

Total BTEX (ppm) 8.66 Toluene (ppb) _____

Field Headspace (ppm) 80 Ethylbenzene (ppb) _____

TPH (ppm) 658.8 Total Xylenes (ppb) _____

Groundwater Sample: Yes X 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 8/15/96 PRINTED NAME Craig A. Beck

SIGNATURE Craig 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 bottom w/nutrients

SIGNED: Robert J. [Signature] DATE: 9/9/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: ficarilla West #6 Lease No. fic-152
 Contractor: Philips Env Consultant Initials: JHP
 Date Started: 8-15-96 Date Finished: _____

Excavation & Soil Information

Dimensions (approx.): 25' FT. x 23' FT. x 18' FT. Deep Cubic Yards: 383
 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)	120	267	105	215	133	40	50	208
Laboratory Results:								
Sample ID	m6-50710A-2-3-V							
BTEX RM8020 (ppm)	8.66							
TPH RM8015 (ppm)	658.8							

9	10
comp 80	95
11	
58	

Notes:

8-15-96

2502 AFE
50710A DP#
D-6-26N-SW

Jicarilla West #6

Left Jicarilla 123 C# 23 with Hoe loaded on Schmitz @ 7:10 AM - Schmitz Tore driveline out of Truck Hauling Hoe across J-63 (Tore up @ 8:00 am)

Blow well down

Take Picture # 3 (29)

Fill out Work Permit 96080908240047 Rio Arriba

Started Digging @ 11:00 AM

Guy

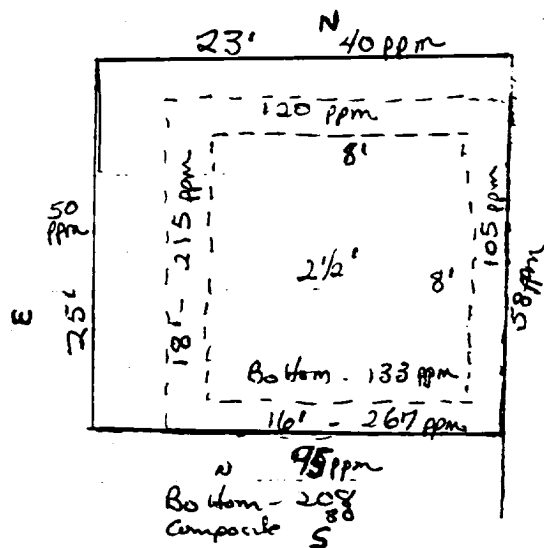
Craig

James

Jason

Tim

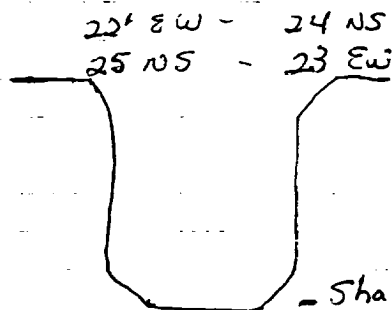
(Schmitz truck & Dr)



EW NS
16 x 18 x 13

showed very little (30 ppm) first 4 feet
Went up to 200 ppm at 4 ft.
Williams

E N-120
S-267
E-105
N-215
S-133



Took Picture # 4-5-6
28 27 26

Extended North-West - Bottom
Did Bottom 2 more feet to finish - 17' to 19'

Land Farm - South of Separator & SW of Wellhead

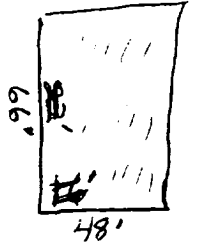
22-16-6

18' 20'

AC well head

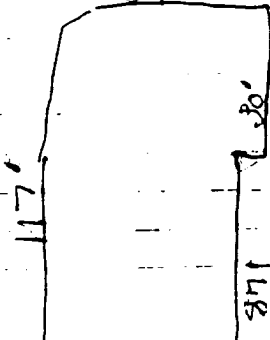
North

18' 6"



51' 9A wellhead

39'



Load Truck hoe @ 3:00 pm
stuck right off location
Got to 67*12 @ 5:20 pm

Put well back on Line

Left Jic 67*12 @ 5:20 pm
Found 67*9

Talked to Craig - was suppose to meet Valade @ 9:00 am - Counting pens for Kent - Valade didn't show
called Craig approx 11:00 am - wanted

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
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	8.6	< 5.0	< 5.0
FUEL 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			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	M6-50710A-2-3-V	NON-AQ	8/15/96	8/21/96	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

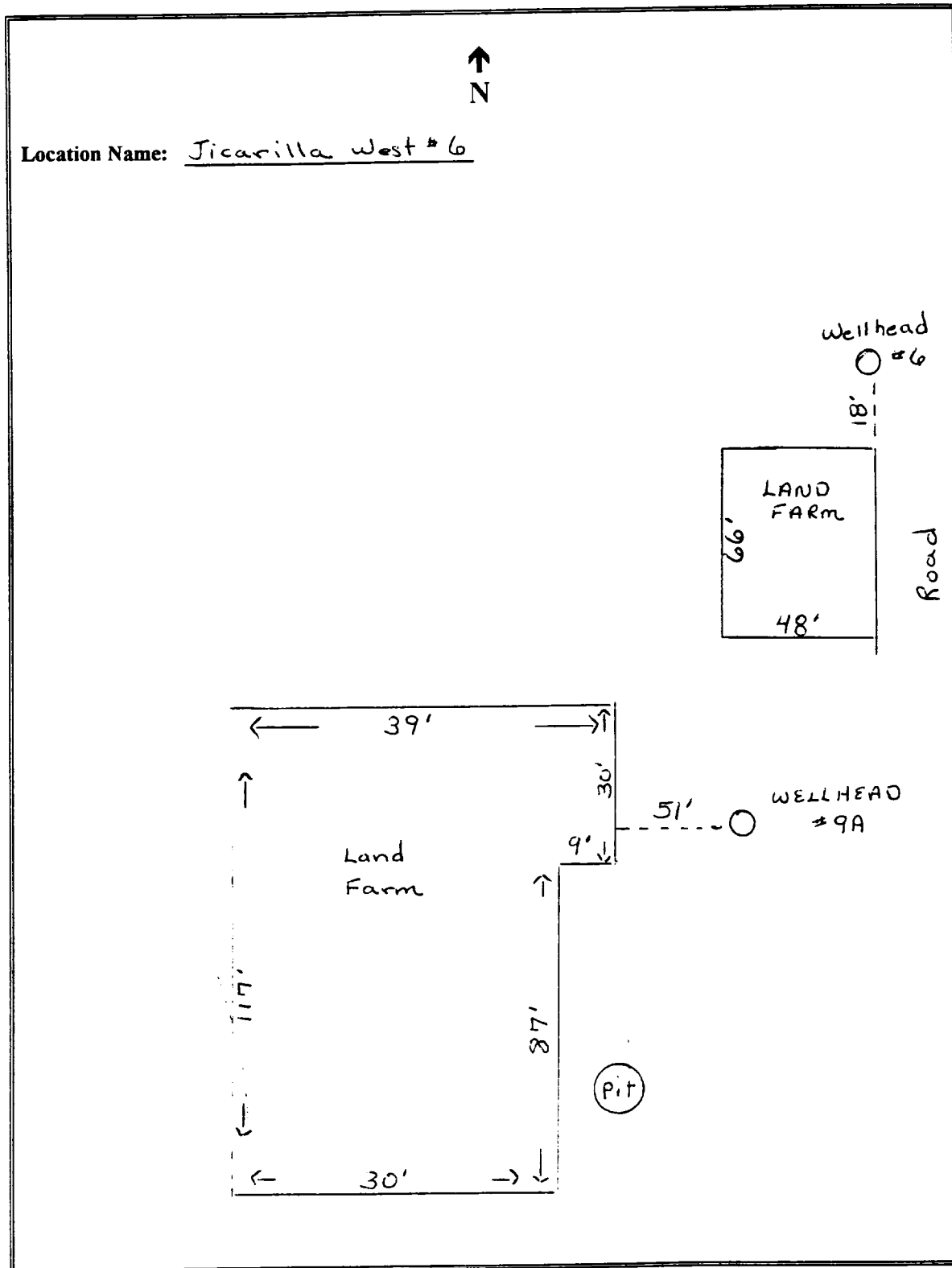
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SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

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 West #6 Pit #1</u>		
Location:	Unit: <u>D</u>	Sec. <u>06</u> T. <u>26</u> N. <u>05</u> W. <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>8-15-96</u>		Date Completed: _____
Remediation Method: <u>Landfamed</u> ☒		Approx. cubic yards: <u>383</u>
<u>Composted</u> _____		
<u>Other</u> _____		
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time: <u>7:00 am</u> Sampling Results: Field Headspace (ppm): <u>24</u> TPH (ppm): <u>15</u> Method: <u>8015</u> Other: _____ Sample No. <u>m6-50710A-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>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>[Signature]</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.: **C1985**
 Sample No. **11986**
 Job No. **2-1000**

Project Name: **Burlington Resources**
 Project Location: **M6-50710A-1-LF**
 Sampled by: **CAB/GG**
 Analyzed by: **DC**
 Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **7:00**
 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)	<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	104	4.3	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	82	97	(70-130)	12	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**