

George E. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 11 1999

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

RECEIVED
DEC 14 1999
OIL & GAS DIV.

SUBMIT COPY TO
NATURAL RESOURCES DEPT
OIL & GAS ADMINISTRATION

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: Marathon Oil Co. Telephone: 505-326-2783
Address: P.O. Box 1439 Farmington NM 87499
Facility or Well Name: Jicarilla Apache #13E
Location: Unit or Qtr/Qtr Sec E Sec 33 T26N R5W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Apache

Pit Location: Pit dimensions length 30' width 27' depth 15'
(Attach diagram)
Reference: wellhead X, other ☐
Footage from reference: 120'
Direction from reference: ☒ 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) 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) 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) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 8-30-96 Date Completed: 10-20-96

Remediation Method: Excavation ☒ (Check all appropriate sections) ☒ Landfilled ☒ Insitu Bioremediation ☐

Other ☐ Remediation Location: Onsite ☒ Offsite ☐ (i.e. landfilled onsite, name and location of offsite facility) ☐

General Description of Remedial Action: Spread on location for natural bio remediation

Groundwater Encountered: No ☒ Yes ☐ Depth ☐

Final Pit: Sample location each side wall 15' down Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 15' Sample date 8-30-96 Sample time 9:30

Sample Results
Soil Benzene (ppm) ☐ Water Benzene (ppb) ☐
Total BTEX (ppm) .307 Toluene (ppb) ☐
Field Headspace (ppm) see attached Ethylbenzene (ppb) ☐
TPH (ppm) 1.2 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 9-4-96 PRINTED NAME Gary W. Donaghey
SIGNATURE Gary W. Donaghey AND TITLE Production Supervisor

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: K. C. Mamm DATE: 9-4-96

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Marathon Oil Co.	Project #:	95047
Sample ID:	Jicarilla #13E	Date Reported:	09-03-96
Laboratory Number:	A520	Date Sampled:	08-30-96
Chain of Custody No:	4865	Date Received:	09-03-96
Sample Matrix:	Soil	Date Extracted:	09-03-96
Preservative:	Cool	Date Analyzed:	09-03-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics. Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Apache, Jicarilla #13E, Sample #2.


Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Marathon Oil Co.	Project #:	95047
Sample ID:	Jicarilla #13E	Date Reported:	09-04-96
Laboratory Number:	A520	Date Sampled:	08-30-96
Chain of Custody:	4865	Date Received:	09-03-96
Sample Matrix:	Soil	Date Analyzed:	09-03-96
Preservative:	Cool	Date Extracted:	09-03-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	80.8	8.8
Toluene	80.1	8.4
Ethylbenzene	36.8	7.6
p,m-Xylene	74.3	10.8
o-Xylene	35.5	5.2
Total BTEX	307	

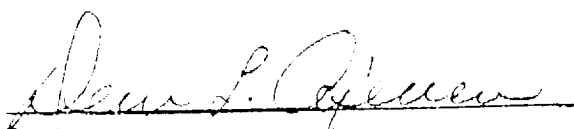
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	103 %
	Bromofluorobenzene	102 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Jicarilla Apache, Jicarilla #13E, Sample #2.


Analyst

Review

NOTES/REMARKS/NOTAS

Jicarilla Apache #13E

original dim. 20'x15'

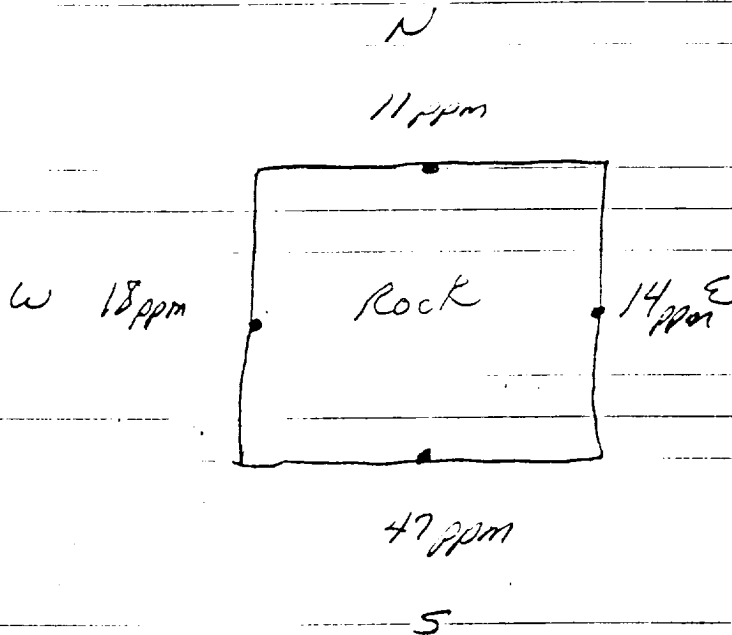
Excavated 30'x27'

450 cy.

5' sample 259

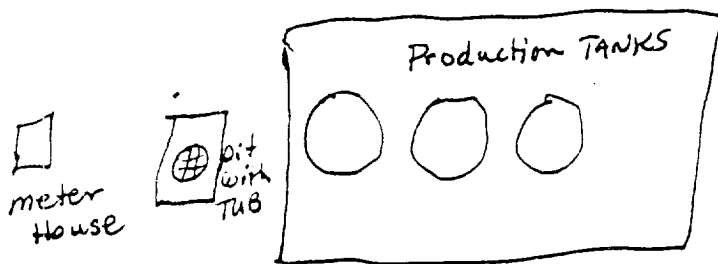
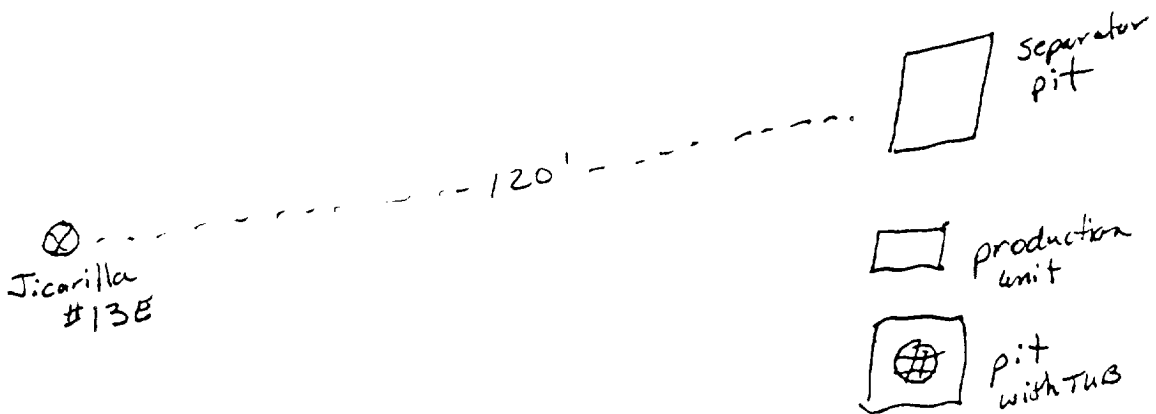
10' sample 210

Rock at 15'
4 pt composite



Jicarilla #13E

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DULCE, NEW MEXICO 87528

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NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Marathon Oil Co.</u>		Telephone: <u>505-326-2783</u>
Address: <u>P.O. Box 1439 Farmington, N.M. 87499</u>		
Facility or Well Name: <u>Jicarilla Apache #13E</u>		
Location: Unit or Qtr/Qtr Sec <u>E</u> Sec <u>33</u> T <u>26N</u> R <u>5W</u> County <u>Rio Arriba</u>		
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>8-30-96</u>		Date Completed: <u>31 OCT 97</u>
Remediation Method: Landfilled ☒		Approx. cubic yards <u>450</u>
Composted ☐		
Other ☐		
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>9-24-97</u> Time: <u> </u>
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>0</u>
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>2.</u> Method <u>8015 MOD</u>
Other <u> </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>10-14-97</u>	PRINTED NAME <u>Gary W. Donaghey</u>	
SIGNATURE <u>Gary W. Donaghey</u>	AND TITLE <u>Production Supervisor</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.		
APPROVED: YES ☒ NO ☐ (REASON) <u> </u>		
SIGNED: <u>Kenneth Mann</u>		DATE: <u>10-15-97</u>

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

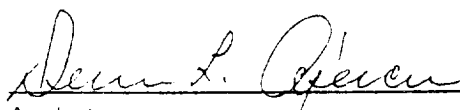
Client:	Marathon Oil Co.	Project #:	95047
Sample ID:	Jicarilla 13E	Date Reported:	09-26-97
Laboratory Number:	C154	Date Sampled:	09-24-97
Chain of Custody No:	5464	Date Received:	09-25-97
Sample Matrix:	Soil	Date Extracted:	09-25-97
Preservative:	Cool	Date Analyzed:	09-25-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

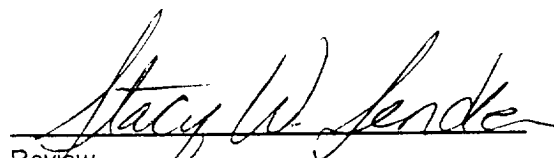
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.0	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	2.0	0.2

ND - Parameter not detected at the stated detection limit.

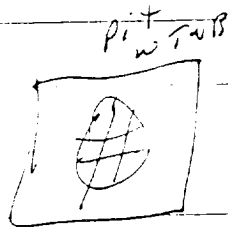
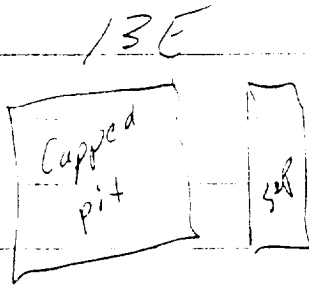
References: Method 8015. Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, July 1992.

Comments: **Jicarilla.**

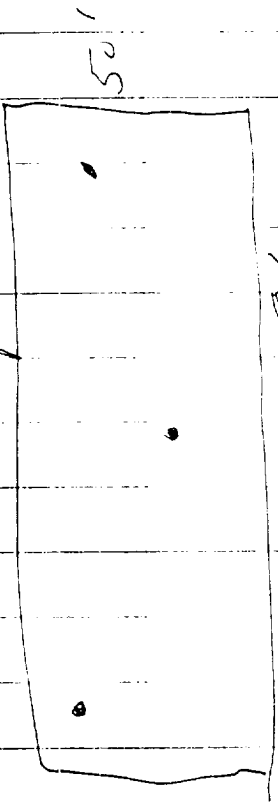
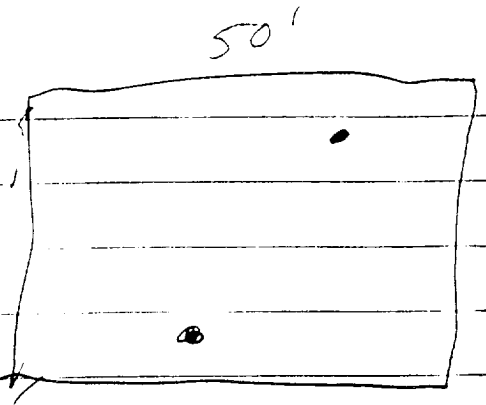

Analyst


Review

Unit E sec 33 T26N R5W
LSE # 154

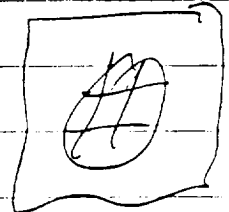
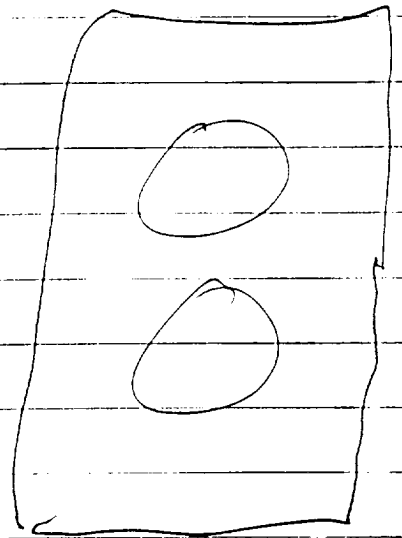


50'



150'

200'



NE - 2"	0	
NW - 4"	0	ppm
E - 6"	0	
SE - 8"	0	
SW - 5"	0	
Composite -	0	

meter house