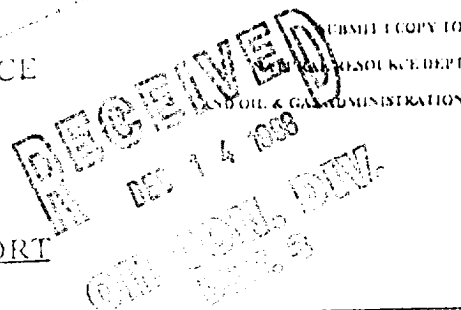


Denny E. Frost
DEPUTY OIL & GAS INSPECTOR

FEB 11 1988

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



Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: MARATHON Oil Co. Telephone: 505 326-2783

Address: P.O. Box 1439 Farmington, N.M. 87499

Facility or Well Name: Jicarilla Apache #11E

Location: Unit or Qtr/Qtr Sec C Sec 28 T26N R5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other Produced water evaporation

Land Type: Jicarilla Apache

Pit Location: Pit dimensions length 18' width 18' depth 4'
(Attach diagram) Reference: wellhead X other _____

Footage from reference 120'

Direction from reference 340 Degrees _____ East _____ North ☒ _____ NW
or _____ 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 flow within 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: 8-9-96 Date Completed: 8-28-96

Remediation Method: Excavation ☒ Approx. cubic yards 50

Check all appropriate sections: Manufactured ☒ Other ☐

Remediation Location: Onsite ☒ Offsite ☐

(If offsite, name and location of offsite facility) _____

General Description of Remedial Action: Thin spread contaminated soil approximately 6" THICK on wellpad

Groundwater Encountered: No ☐ Yes ☐ Depth _____

Final Pit: Sample location each sidewall and bottom from

Closure Sampling: 4' deep

(If multiple samples, attach sample results and diagram of sample locations and depths)

Sample date 8-9-96 Sample time 9:00 A.M.

Sample Results

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

Total BTX (ppm) _____ Toluene (ppb) _____

Field Head space (ppm) SEE ATTACHED Ethylbenzene (ppb) _____

THH (ppm) ND Total Xylenes (ppb) _____

Groundwater Sampled: No ☒ Yes ☐ (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 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: [Signature] DATE: 8-14-96

NOTES

NOTES/NOTAS

SUBJECT Pit Closure Jicavilla #11E
 SUJETO ASUNTO

PERSONS/GROUP MOC - GARY DONAGHEY
 PERSONAS/GRUPO PERSONAS/GRUPO

Phillip Environmental - DAVE BROWN

PHONE
 TELEPHONE/TELEFONO

FAX
 TELECOPIER/FAX

DATE 8-9-96
 DATE/FECHA

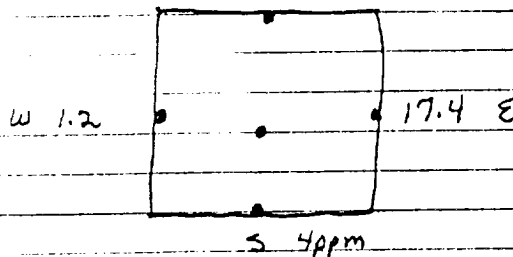
LOCATION
 LIEU/LUGAR

8:30 A.M. Began Excavating Pit. Dig down approximately
 4'. Approximately 50 cubic yards

PID South - 4 PPM
 West - 1.2
 North - 1.3
 East - 17.4
 Bottom - 4.2

Change of Custody - DAVE BROWN Don Brown
 Relinquish to Gary Donaghey - Gary Donaghey
 Composite Sample #2 TO ENVIROTECH
 9:30 A.M. MOVED TO #9

sample 4'
 N 1.3



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

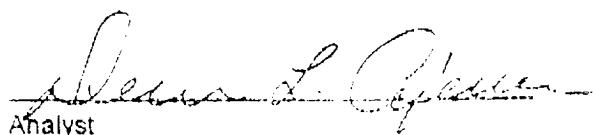
Client:	Marathon Oil Co.	Project #:	95047
Sample ID:	#2 Well #11E	Date Reported:	08-12-96
Laboratory Number:	A457	Date Sampled:	08-09-96
Chain of Custody No:	4851	Date Received:	08-09-96
Sample Matrix:	Soil	Date Extracted:	08-12-96
Preservative:	Cool	Date Analyzed:	08-12-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

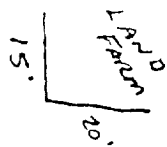
ND - Parameter not detected at the stated detection limit.

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

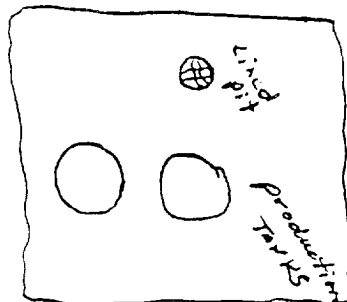
Comments: Jicarilla Well #11E.


Analyst

Review



120'



wellhead
#11E

2

metre
House

Production
unit

L.P. 10
pit

3

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 597
DULCE, NEW MEXICO 87528

SUBMIT TO OPL
NATURAL RESOURCES
AND SOIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: Marathon Oil Co. Telephone: 505-326-2783

Address: P.O. Box 1439 Farmington, N.M. 87499

Facility or Well Name: Jicarilla Apache #11E

Location: Unit or Qtr/Sec C Sec 28 T 26N R 5W County Rio Arriba

Land Type: Jicarilla Apache

Date Remediation Started: 8-9-96

Date Completed: 10-31-96

Remediation Method: Landfilled ☒

Approx. cubic yards 50

Composted ☐

		Final Closure Sampling	
Depth To Groundwater	<u>0</u>	Sampling Date: <u>10-9-96</u>	Time: <u>8:45</u>
Distance to an Ephemeral Stream	<u>10</u>	Sample Results:	
Distance to Nearest Lake, Playa, or Watering Pond	<u>0</u>	Field Testspace (ppm)	<u>0</u>
Wellhead Protection Area:	<u>0</u>	TPH (ppm)	<u>1.6</u> Method <u> </u>
Distance To Surface Water:	<u>0</u>	Other <u> </u>	

RANKING SCORE (TOTAL POINTS): 10

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

DATE 10-96-96 PRINTED NAME GARY W. Donaghey
SIGNATURE Gary W. Donaghey AND TITLE Production Supervisor

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)

SIGNED: Hubert J. L. DATE: 10/16/96

ENVIROTECH LABS

PROACTIVE SOLUTIONS FOR A BETTER FUTURE

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

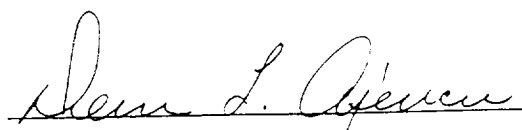
Client:	Marathon Oil	Project #:	95047
Sample ID:	#11E Landfarm	Date Reported:	10-10-96
Laboratory Number:	A650	Date Sampled:	10-09-96
Chain of Custody No:	4949	Date Received:	10-09-96
Sample Matrix:	Soil	Date Extracted:	10-10-96
Preservative:	Cool	Date Analyzed:	10-10-96
Condition:	Cool and intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	1.2	0.1
Total Petroleum Hydrocarbons	1.6	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

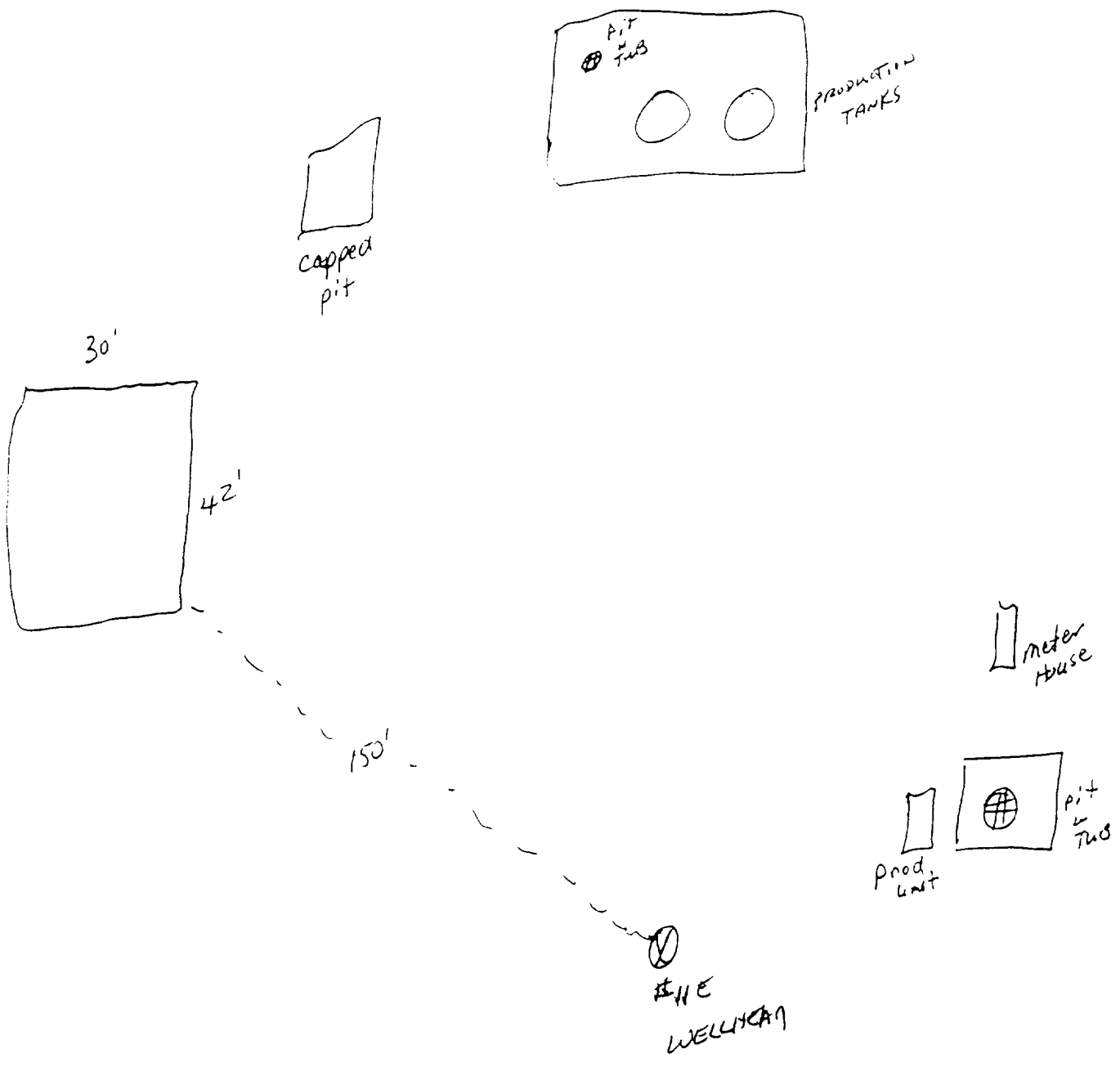

Review

TIE 8:45
 NW - 6" 0
 NE - 12" 0
 C - 8" 0
 SW - surface 0
 SE - 10" 0

N

W

E



S