

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 11 1999

Approved

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

RECEIVED
DEC 14 1993
OIL CON. DIV.
DIST. 3

SUBMIT COPY TO
NATURAL RESOURCE DEPT
OIL & GAS ADMINISTRATION

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 #18

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

Pit Type: Separator ☐ Dehydrator ☐ Other Wellhead blowdown

Land Type: Jicarilla Apache

Pit Location: Pit dimensions length 12 width 12 depth 6
(Attach diagram)

Reference: Wellhead ☒ other ☐

Footage from reference 60

Direction from reference ☐ Degrees ☒ East North ☐
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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 7-18-97 Date Completed: 10-31-97

Remediation Method: Excavation ☒ Approx. cubic yards 32

Check appropriate sections: Manufactured ☒ Initial cost remediation: _____

Other: _____

Remediation Location: Onsite ☒ Offsite: _____
(i.e. manufactured onsite, name and location of offsite facility)

General Description of Remedial Action: Spread 6" thick on location for natural bio-remediation

Groundwater Encountered: No ☒ Yes _____ Depth: _____

Final Pit: Sample location each sidewall

Closure Sampling: bottom

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

Sample depth: 6'

Sample date: 7-18-97 Sample time: 0830

Sample Results		Bottom Walls	
Soil Benzene (ppm)	_____	Water Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Head space (ppm)	<u>3.5</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>6</u>	Total Nylones (ppb)	_____
	<u>14.4</u>		

Groundwater Sample: Yes _____ No ☒ (attach sample results)

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

DATE: 7-29-97 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. Marshall DATE: 7-30-97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

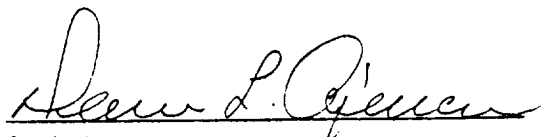
Client:	Marathon Oil	Project #:	95047
Sample ID:	Jicarilla #18 Bottom	Date Reported:	07-22-97
Laboratory Number:	B677	Date Sampled:	07-18-97
Chain of Custody No:	5316	Date Received:	07-18-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-21-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

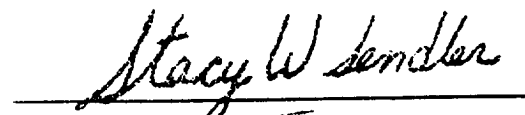
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	6.0	0.1
Total Petroleum Hydrocarbons	6.0	0.2

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 Pits. Grab.


Analyst


Review

ENVIROTECH LABS

PRAGTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

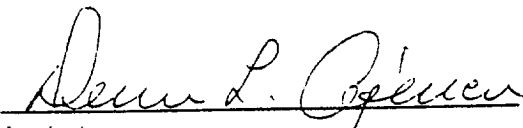
Client:	Marathon Oil	Project #:	95047
Sample ID:	Jicarilla #18 Walls	Date Reported:	07-22-97
Laboratory Number:	B678	Date Sampled:	07-18-97
Chain of Custody No:	5316	Date Received:	07-18-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-21-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

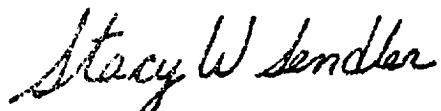
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	14.4	0.1
Total Petroleum Hydrocarbons	14.4	0.2

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 Pits. 4 - Pnt. Comp.


Analyst


Review

5' - 330 ppm

N - .9

E - 8

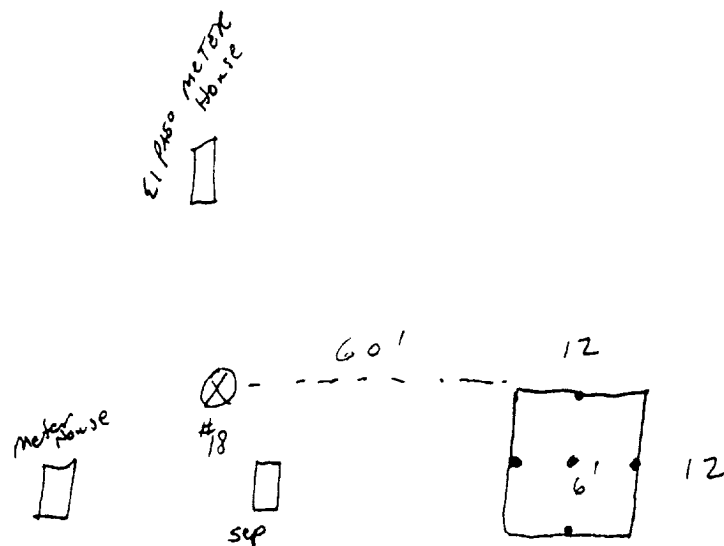
W - 3.8

S - 1.6

3 - 3.5

Pit 12 x 12 x 6

~~32~~ 32 cubic yards



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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 #18
Location: Unit or Qtr/Qtr Sec I Sec 28 T 26N R 5W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 7-18-97 Date Completed: 31 OCT 97
Remediation Method: Landfarmed ☒ Approx. cubic yards 32
Composted ☐
Other ☐

Depth To Groundwater: (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.) 0

Final Closure Sampling:

Sampling Date: 9-24-97 Time: _____
Sample Results:
Field Headspace (ppm) 87
TPH (ppm) 5.2 Method 8015 (Mo)
Other _____

RANKING SCORE (TOTAL POINTS): _____

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

DATE 10-14-97 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: Kate C. Mann DATE: 10-15-97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

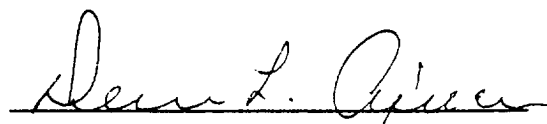
Client:	Marathon Oil Co.	Project #:	95047
Sample ID:	Jicarilla 18	Date Reported:	09-26-97
Laboratory Number:	C160	Date Sampled:	09-24-97
Chain of Custody No:	5464	Date Received:	09-25-97
Sample Matrix:	Soil	Date Extracted:	09-25-97
Preservative:	Cool	Date Analyzed:	09-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

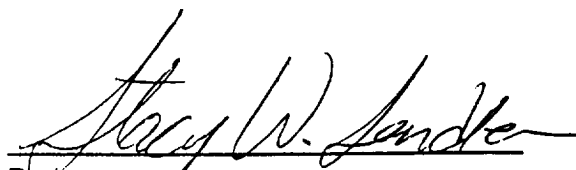
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	5.2	0.2

ND - Parameter not detected at the stated detection limit.

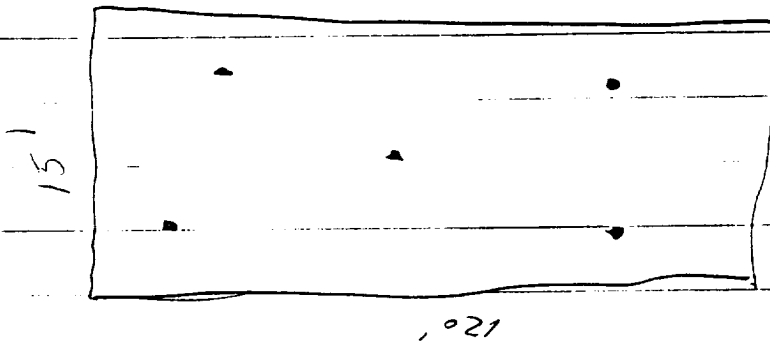
References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Jicarilla.**


Analyst


Review

#18



NE	0.4
NW	1.6
E	6
SE	5.4
SW	1.2
Composite	7