

Denny E. Faust JICARILLA APACHE TRIBE
DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

**P.O. BOX 507
DUNCE, NEW MEXICO 87528**

**SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION**

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla Apache Tribal 151-5

Location: Unit: K Sec. 9 T. 26 N R 5 W County Rio Arriba

Pit Type: Separator Dehydrator X Other

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 27' width 25' depth 8'
(Attach diagram) Reference: wellhead X other _____
Footage from reference: 7.5'
Direction from reference: Straight Degrees _____ East North X
West of South _____

(Vertical distance from contaminants to seasonal high water elevation or ground water)

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 points)

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

RECEIVED
JUL 31 1997

Yes (20 points)
No (0 points)

(Horizontal distance to perennial
lakes, ponds, rivers, streams,
creeks, irrigation canals and ditches)

OIL CON. DIV.
DIST. 3

Less than 200 feet	(20 points)
200 feet to 1,000 feet	(10 points)
Greater than 1,000 feet	(0 points)

(Horizontal distance to all downgradient streams having a width of at least 10 feet)

Less than or equal to 100 feet	+10 points)
Greater than 100 feet	(0 points)

(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)

Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points)

RANKING SCORE (TOTAL POINTS) :

Frank J. [illegible]
DEPUTY DIRECTOR & CHIEF OF BUREAU

1921

Date Remediation Started:

5/28/97

Date Completed:

7/10/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

200(Check all
appropriate
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

200

Other _____

Remediation Location:

Onsite

X

Offsite _____

(i.e., landfarmed onsite, name
and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls
HS to get a below 100 ppm head space reading.
Bottom of pit was solid rock

Ground Water Encountered:

No

X

Yes

Depth _____

Final Pit Closure
Sampling:

Sample Location

North, East, South, West side
walls(if multiple samples, attach
sample result and diagram of
sample locations and
depths.)

Sample depth

5'

Sample date

5/28/97

Sample time

1016

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

0.003

Toluene (ppb)

Field headspace (ppm)

90.3

Ethylbenzene (ppb)

TPH

ND

ppm

Method

8015

Total Xylenes (ppb)

Ground Water 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 MY BELIEF

DATE

6/6/97

PRINTED NAME

Ronald A. Dedrick

SIGNATURE

Ronald A. Dedrick

AND TITLE

Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE
TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES

X

NO

(REASON):

Spray + Close

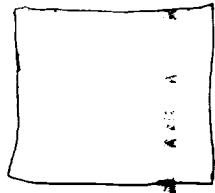
SIGNED:

Ken C. Mamm

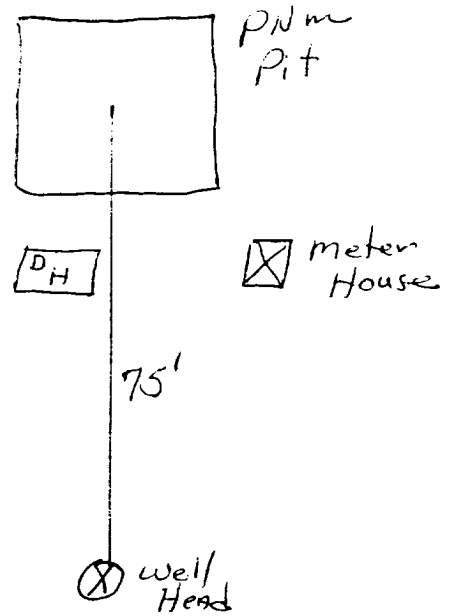
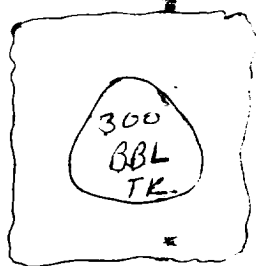
DATE:

6-9-97

Jicarilla Apache Tribal 151-5
Sec. 9 T.26N R.5W unit K
Amoco

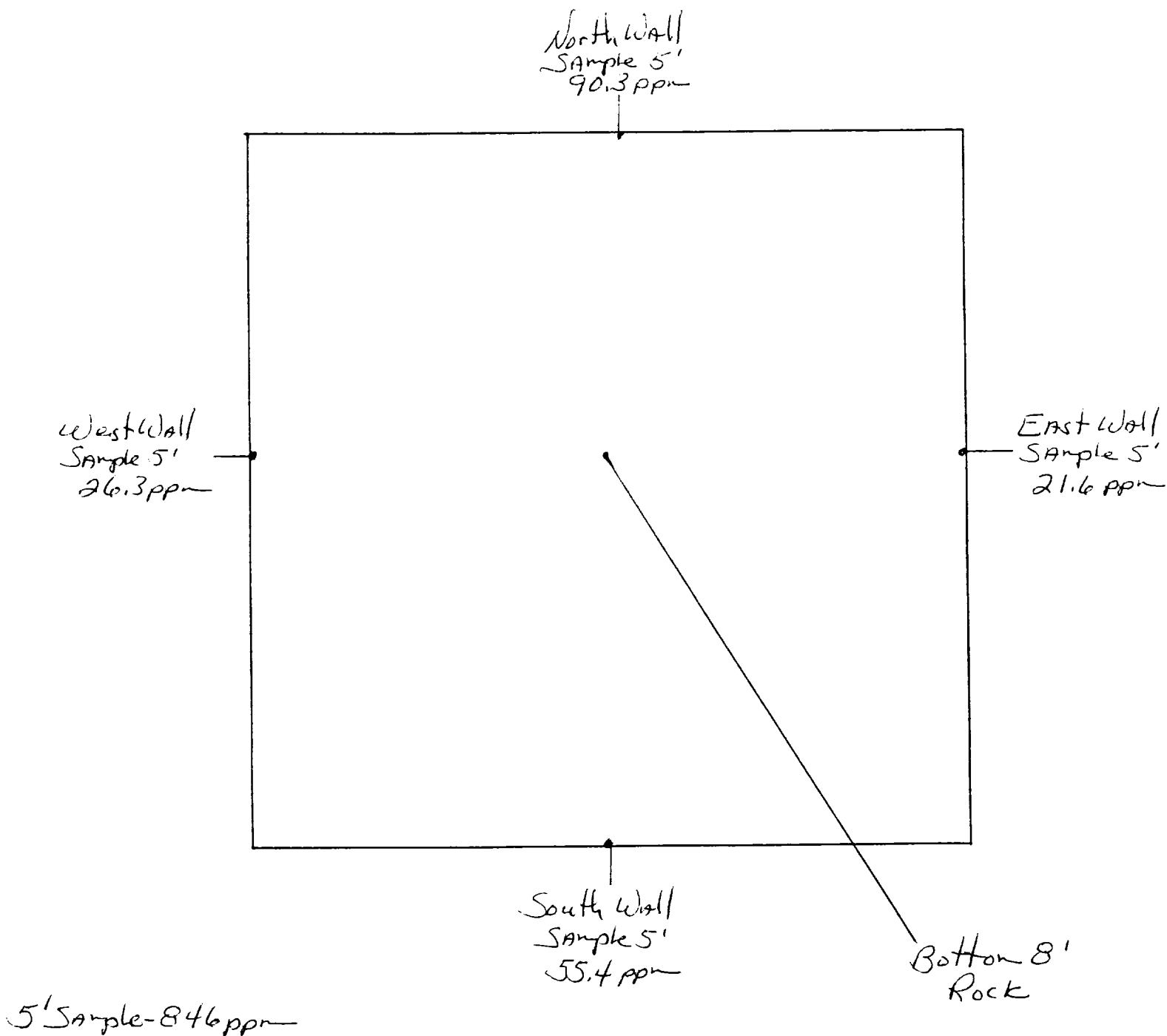


Sep -



Jicarilla Apache Tribal 151-5
Sec. 9 T26N R5W Unit K
Amoco

27'x25'x8'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *4-Jun-97*
COC No.: *5480*
Sample No.: *14771*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5*
Project Location: *9705281016; 4pt. Composite*
Sampled by: *TE* Date: *28-May-97* Time: *10:16*
Analyzed by: *DC* Date: *3-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5.0	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0519-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	192	4.3	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	96	102	(70-130)	6	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
Date: *6/4/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *3-Jun-97*
COC No.: *5480*
Sample No.: *14771*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5*
Project Location: *9705281016; 4pt. Composite*
Sampled by: *TE* Date: *28-May-97* Time: *10:16*
Analyzed by: *DC* Date: *30-May-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	3	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	3		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *6/3/97*

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ENVIRONMENTAL
PROTECTION OFFICE
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DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla Apache Tribal 151-5
Location: Unit: K Sec. 9 T. 26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 5/28/97 Date Completed: 6/26/97
Remediation Method: Landfilled X Approx. cubic yards 200
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.) 0
Ranking Score (Total Points): 0

Final Closure Sampling:

Sampling Date: 6/17/97 Time 1437
Sampling Results:
Field Headspace (ppm) 71.7
TPH (ppm) 31 Method 8015
Other —

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

DATE 6/26/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

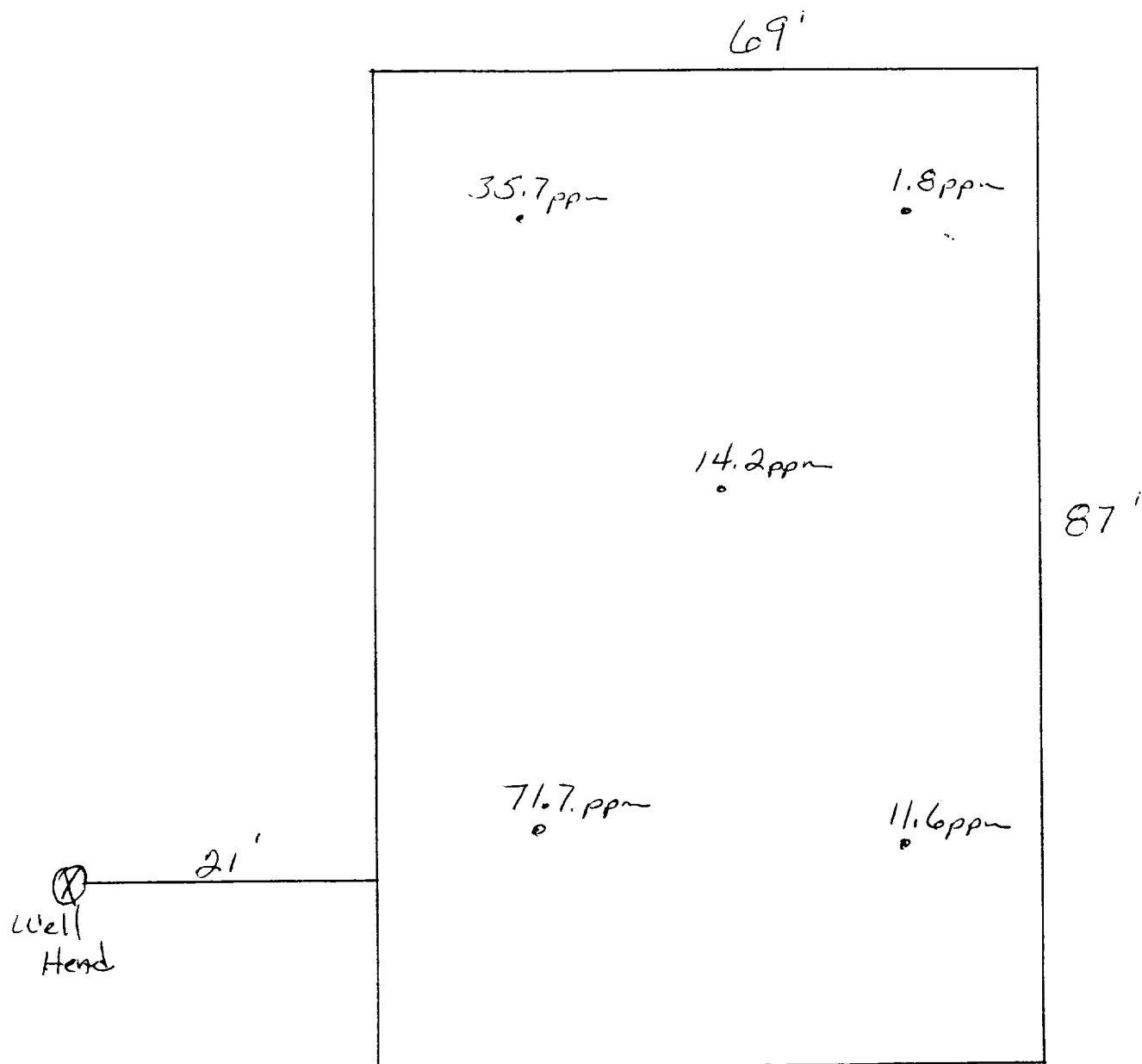
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO — (REASON) —

SIGNED: [Signature] DATE: 6-27-97

Jicarilla Apache Tribal 151-5
Sec. 9 T26N R5W Unit K
Amoco

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *23-Jun-97*
COC No.: *5489*
Sample No.: *15021*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5 Landfarm*
Project Location: *9706171437; 5pt. Composite*
Sampled by: *RB* Date: *17-Jun-97* Time: *14:37*
Analyzed by: *DC/HR* Date: *20-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>31</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>190</i>	<i>5.2</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>86</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: *[Signature]*
Date: *6/23/97*

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