

# Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700  
BURBANK, CALIFORNIA 91505-4331

June 1, 1988

• Mr. Rafat Shahid  
Alameda County Health Care Services  
470 27th Street - Third Floor  
Oakland, California 94612

MOBIL OIL CORPORATION  
S/S #10-LIX  
15884 HESPERIAN BLVD.  
SAN LORENZO, CALIFORNIA 94580

Dear Mr. Shahid:

Attached is a copy of the consultant's report for the referenced location. The report was originally sent to T. M. Gerow of your office.

Should you require additional information, contact me at (818) 953-2519.

Sincerely,

JMK:ars  
attachment  
13390

*R. A. Miller*  
for Jane M. Keith  
Environmental Advisor

RECEIVED  
JUN 1 1988  
MILWAUKEE

# Mobil Oil Corporation

RECEIVED  
MAY 06 1988

3800 WEST ALAMEDA AVENUE, SUITE 700  
BURBANK, CALIFORNIA 91505-4331

April 28, 1988 HAZARDOUS MATERIALS/  
WASTE PROGRAM

Mr. Greg Zetner  
Regional Water Quality Control Board  
1111 Jackson Street, Room 6040  
Oakland, California 94607

MOBIL OIL CORPORATION  
S/S #10-LIX  
15884 HESPERIAN BOULEVARD  
SAN LORENZO, CALIFORNIA

Dear Mr. Zetner:

Attached is our consultant's report for the referenced location.

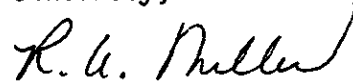
As part of the divestment of the above service station, the underground tanks were removed. Results of the initial soil sampling indicated that moderate levels of Total Petroleum Hydrocarbons were present in the cavity. Therefore, additional excavation to a depth of 17.5 - 18.0 feet was conducted. ←

A water sample obtained from the tank cavity excavation exhibited non-detectable levels of TPH and BTXE concentrations. Laboratory analyses of the stockpiled soil indicated that very low to non-detectable levels of hydrocarbon concentrations were present in the soil. Based on this data, the stockpiled soil will be utilized as backfill in the excavation.

During the additional excavation, well MW-2 was destroyed. Therefore, another well will be installed in the approximate location of MW-2. Upon completion, a report will be submitted to your office.

Should you have any questions, contact Jane Keith at (818) 953-2519.

Sincerely,



*for* R. J. Edwards  
Region Environmental Manager

JMK:ars  
attachment  
11500

cc: Mr. T. M. Gerow  
Alameda County  
Environmental Health Department  
470 27th Street, Room 324  
Oakland, California 94612

Mr. Ron Sykora (FEDERAL EXPRESS)  
David D. Bohannon Organization  
60 Hillside Mall  
San Mateo, California 94403



**KAPREALIAN ENGINEERING, INC.**

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

KEI-J87-128SD

March 11, 1988

Mobil Oil Corporation  
P. O. Box 127  
Richmond, CA 94807

Attn: Mr. Steve Pao

Re: Additional Excavation And  
Stockpiled Soil Sampling For  
Mobil S/S #10-LIX  
15884 Hesperian Blvd.  
San Lorenzo, California

Dear Mr. Pao:

This letter report summarizes the results of the stockpiled soil sampling and laboratory analyses for the referenced site. The soil analyses were conducted to comply with the Regulatory Agencies requirements for proper disposal of contaminated soil.

On January 20, 1988, Kaprealian Engineering, Inc. (KEI) supervised the excavation of contaminated soil from the open pit where the underground fuel storage tanks were removed, per the recommendations of our report dated January 15, 1988. Approximately 120 cubic yards was removed and stockpiled. The excavation proceeded to a depth of 17.5 to 18 feet. Groundwater was encountered at 16 feet in depth. Two composite samples, labeled Comp A and Comp B, were collected from the stockpile. Each composite sample consisted of four (4) individual grab samples taken at various locations and depths of 1.5 to 2 feet. The samples were collected in 2-inch by 4-inch, clean brass tubes which were then sealed with aluminum foil and plastic caps and placed in an ice chest for subsequent delivery to HAZCAT Organics Laboratory in San Carlos for analyses.

The composite samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, xylene and ethylbenzene (BTXE) concentrations. The results of the soil analyses showed concentrations of TPH of 6.9 parts per million (ppm) for Comp A and 20 ppm for Comp B. The results are summarized in Table 1. Copies of the laboratory analyses and the chain of custody form are attached to this report.

KEI-J87-128SD  
March 11, 1988  
Page 2

KEI returned to the site on February 17, 1988 to collect a sample of groundwater from the bottom of the excavation. One composite sample, labeled Comp W, consisting of two separate grab samples, was collected and placed in a clean VOA vial and was sealed with a Teflon-lined screw cap. The sample was stored on ice for delivery to HAZCAT for analysis.

On March 3 and 4, 1988, KEI supervised additional soil excavation. Approximately 500 cubic yards of soil was removed from the area shown on the attached sketch and stockpiled on site. Excavation proceeded to a depth of about 17.5 feet. During excavation, monitoring well MW-2 was destroyed.

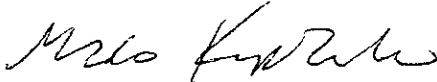
KEI returned to the site on March 8, 1988 to collect composite samples from the stockpiled soil. Five composite samples, labeled Comp A, Comp B, Comp C, Comp D and Comp E were collected using the methodology described above. The analytical results from HAZCAT Organics Laboratory showed TPH levels ranging from non-detectable to 9.5 ppm. The results are summarized in Table 1.

Based on the analyses of all the composite samples and the groundwater sample, the TPH levels in the soil are considered to be non-hazardous by the Regional Water Quality Control Board. Therefore, the soil may be backfilled into the excavation.

Should you have any questions on this report, please do not hesitate to contact me at (415) 676-9100 or (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.



Mardo Kaprealian

Attachment: Laboratory Results  
Chain of Custody  
Table 1

Table -1  
Summary of Laboratory Analyses  
(parts per million)

<u>Date</u>	<u>Sample</u>	<u>Type</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>	<u>Ethyl- benzene</u>
1/27/88	Comp A	Soil	6.9	0.1	0.7	4.1	0.5
	Comp B	Soil	20	0.1	2.8	4.8	1.0
2/17/88	Comp W	Water	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
3/08/88	Comp A	Soil	<1	<0.1	<0.1	<0.1	<0.1
	Comp B	Soil	<1	<0.1	<0.1	<0.1	<0.1
	Comp C	Soil	1.5	<0.1	<0.1	0.1	<0.1
	Comp D	Soil	3.8	<0.1	<0.1	0.1	<0.1
	Comp E	Soil	9.5	0.1	0.2	3.0	0.4



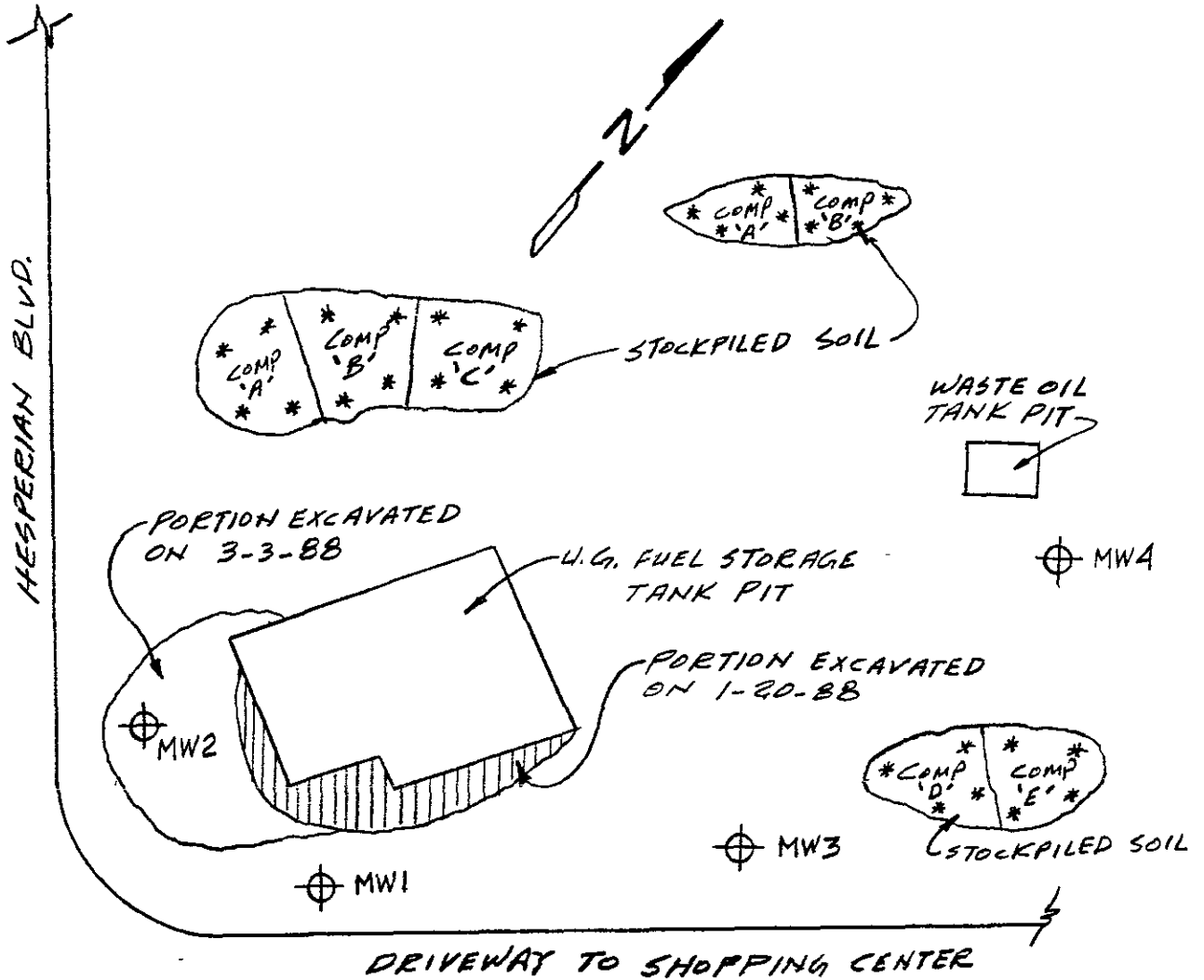
# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

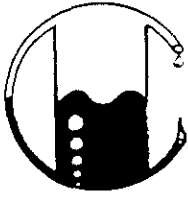
(415) 676-9100 (707) 746-6915



## LOCATION PLAN N.T.S.

- ⊕ MONITORING WELL
- \* SOIL SAMPLE LOCATION

MOBL S/S #10-LIX  
15884 HESPERIAN BLVD.  
SAN LORENZO, CALIF.



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 01-27-88  
Date Received: 01-27-88  
Date Reported: 01-27-88

Sample Number

-----  
018036

Sample Description

-----  
Mobil-San Lorenzo  
Hesperian & Post Office Rd.  
Comp. A SOIL

ANALYSIS

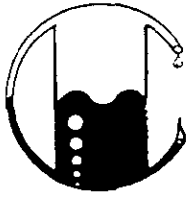
	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	6.9
Benzene	0.1	0.1
Toluene	0.1	0.7
Xylenes	0.1	4.1
Ethylbenzene	0.1	0.5

Note: Analysis was performed using EPA methods 5020 and 8015 with  
method 8020 used for BTX distinction.

HAZCAT

*Ronald G. Evans*

Ronald G. Evans  
Lab Director



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 01-27-88  
Date Received: 01-27-88  
Date Reported: 01-27-88

Sample Number

-----  
018037

Sample Description

-----  
Mobil-San Lorenzo  
Hesperian & Post Office Rd.  
Comp. B SOIL

ANALYSIS

	Detection Limit	Sample Results
	-----	-----
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	20
Benzene	0.1	0.1
Toluene	0.1	2.8
Xylenes	0.1	4.8
Ethylbenzene	0.1	1.0

Note: Analysis was performed using EPA methods 5020 and 8015 with  
method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans  
Lab Director



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: JMB DATE/TIME OF COLLECTION: 1/27/88 4:00 PM TURNAROUND TIME: \_\_\_\_\_  
(signature)

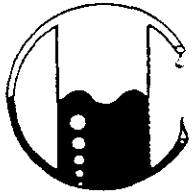
SAMPLE DESCRIPTION AND PROJECT NUMBER: Mobil in San Lorenzo @ corner of Hesperian Blvd. & Post office Rd.

<u>SAMPLE #</u>	<u>ANALYSIS</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>COMP-A</u>	<u>TPH gas &amp; BTX-E</u>	<u>Composite</u>	<u>3</u>	<u>soil</u>
<u>COMP-B</u>	<u>TPH gas &amp; BTX-E</u>	<u>Composite</u>	<u>3</u>	<u>soil</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
<u>JMB</u>	<u>6:00 1/27/88</u>	<u>R Evans</u>	<u>1/27/88</u>
		<u>Hoyes</u>	<u>6:00 PM</u>
1.			
2.			
3.			
4.			

\* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: 24 HR RUSH



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian  
President

Date Sampled: 02-17-88  
Date Received: 02-17-88  
Date Reported: 02-18-88

Sample Number  
-----  
028090

Sample Description  
-----  
Mobil-San Lorenzo  
Hesprian Blvd.  
Comp. W WATER

## ANALYSIS

-----

	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and 602.

HAZCAT

*Ronald G. Evans*  
Ronald G. Evans  
Lab Director

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: Mdo DATE/TIME OF COLLECTION: 2/17/88 11:05 TURNAROUND TIME: 24 hrs.  
 (signature)

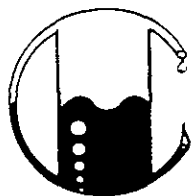
SAMPLE DESCRIPTION AND PROJECT NUMBER: Mobil, Hesperian Blvd.  
San Lorenzo

SAMPLE #	ANALYSIS	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>Comp W</u>	<u><del>TPH</del> BTXE</u>	<u>comp</u>	<u>2</u>	<u>W</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. <u>Mdo</u> (KEI)	12:35 pm 2/17/88	<u>Chris Reece</u> (KEI)	12:35 2-17-88
2. <u>Chris Reece</u> (KEI)	3:55 2-17-88	<u>Mark C...</u> PRIORITY EXPRESS	1558/ 2-17-88
3. <u>Mark C...</u> PRIORITY EXPRESS	1819/ 2-17-88	<u>Howard</u> <u>Howard</u>	2/17/88 1819
4.			

\* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: \_\_\_\_\_



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 03-08-88  
Date Received: 03-08-88  
Date Reported: 03-08-88

Sample Number

038031

Sample Description

Mobil-San Lorenzo  
Hesperian  
Comp. A SOIL

ANALYSIS

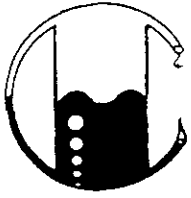
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

*Ronald G. Evans*

Ronald G. Evans  
Lab Director



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 03-08-88  
Date Received: 03-08-88  
Date Reported: 03-08-88

Sample Number

038032

Sample Description

Mobil-San Lorenzo  
Hesperian  
Comp. B SOIL

ANALYSIS

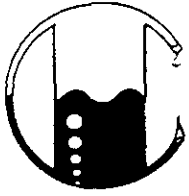
	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

*Ronald G. Evans*

Ronald G. Evans  
Lab Director



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 03-08-88  
Date Received: 03-08-88  
Date Reported: 03-08-88

Sample Number  
-----  
038033

Sample Description  
-----  
Mobil-San Lorenzo  
Hesperian  
Comp. C SOIL

## ANALYSIS

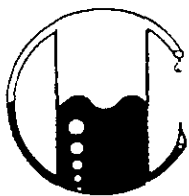
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	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	1.5
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans  
Lab Director



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 03-08-88  
Date Received: 03-08-88  
Date Reported: 03-08-88

Sample Number

038034

Sample Description

Mobil-San Lorenzo  
Hesperian  
Comp. D SOIL

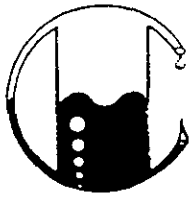
## ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	3.8
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

*Ronald G. Evans*  
Ronald G. Evans  
Lab Director



# HAZCAT Mobile Organics Lab

733 Dartmouth Avenue  
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.  
P.O. BOX 913  
Benicia, CA 94510  
Attn: Mardo Kaprealian, P.E.  
President

Date Sampled: 03-08-88  
Date Received: 03-08-88  
Date Reported: 03-08-88

Sample Number  
-----

038035

Sample Description  
-----

Mobil-San Lorenzo  
Hesperian  
Comp. E SOIL

ANALYSIS  
-----

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	9.5
Benzene	0.1	0.1
Toluene	0.1	0.2
Xylenes	0.1	3.0
Ethylbenzene	0.1	0.4

Note: Analysis was performed using EPA methods 5020 and 8015 with  
method 8020 used for BTX distinction.

HAZCAT

*Ronald G. Evans*  
Ronald G. Evans  
Lab Director



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: [Signature] DATE/TIME OF COLLECTION: 3/8/88 TURNAROUND TIME: 24 HRS  
 (signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: MOBIL - San Lorenzo - Heoperian

SAMPLE #	ANALYSIS	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
Comp A	TPH. G & BTEX. E	Comp	2	S
Comp B	u	u	2	S
Comp C	u	u	2	S
Comp D	u	u	2	S
Comp E	u	u	2	S

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. <u>[Signature]</u>	3/8/88 1650	<u>Bill Smother</u>	1650 3-8-88
2. <u>Bill Smother</u>	1830 3-8-88	<u>[Signature]</u>	1830
3.			
4.			

\* STATE AFFILIATION NEXT TO SIGNATURE

[Signature]

REMARKS: \_\_\_\_\_