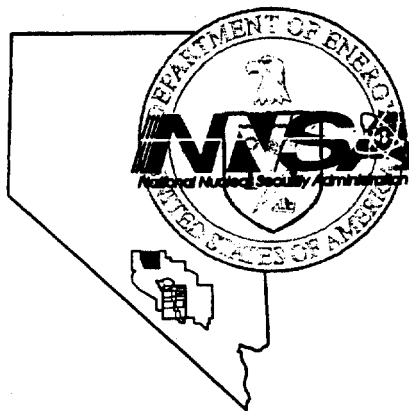


Nevada
Environmental
Restoration
Project

DOE/NV-738



Post-Closure Inspection Report for
Corrective Action Unit 427:
Septic Waste Systems 2 and 6
Tonopah Test Range, Nevada
Calendar Year 2000

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June 2001

Environmental Restoration
Division

U.S. Department of Energy
National Nuclear Security Administration
Nevada Operations Office

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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 427:
AREA 3 SEPTIC WASTE SYSTEMS 2 AND 6
TONOPAH TEST RANGE, NEVADA
CALENDAR YEAR 2000**

**Prepared for
U. S. Department of Energy
National Nuclear Security Administration
Nevada Operations Office
Work Performed Under Contract No.
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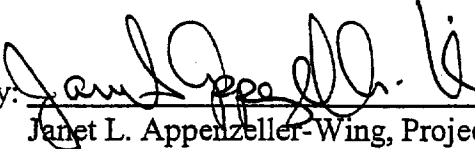
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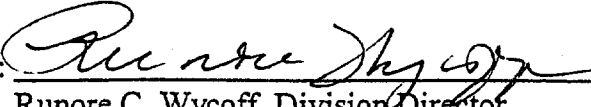
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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 427:
AREA 3 SEPTIC WASTE SYSTEMS 2 AND 6
TONOPAH TEST RANGE, NEVADA
CALENDAR YEAR 2000**

Approved by: 
Janet L. Appenzeller-Wing, Project Manager
Industrial Sites Project

Date: 6/21/01

Approved by: 
Runore C. Wycoff, Division Director
Environmental Restoration Project

Date: 6/21/01

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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 INSPECTION RESULTS 1

 2.1 JUNE 20, 2000 INSPECTION 1

 2.2 NOVEMBER 20, 2000 INSPECTION 3

3.0 CONCLUSIONS AND RECOMMENDATIONS 3

FIGURES

FIGURE 1 - AREA 3 SEPTIC WASTE SYSTEMS 2 AND 6 CAU 427 LOCATION MAP ... 2

APPENDICES

- APPENDIX A - INSPECTION CHECKLISTS
- APPENDIX B - FIELD NOTES
- APPENDIX C - PHOTOGRAPH LOG AND PHOTOGRAPHS

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1.0 INTRODUCTION

Post-closure inspection requirements for the Area 3 Septic Waste Systems 2 and 6 (Corrective Action Unit [CAU] 427) (Figure 1) are described in Closure Report for Corrective Action Unit 427, Area 3 Septic Waste Systems 2 and 6, Tonopah Test Range, Nevada, report number DOE/NV-561. The Closure Report (CR) was submitted to the Nevada Division of Environmental Protection (NDEP) on August 16, 1999. The CR (containing the Post-Closure Inspection Plan) was approved by the NDEP on August 27, 1999.

The annual post-closure inspection at CAU 427 consists of the following:

- Verification of the presence of all leachfield and septic tank below-grade markers.
- Verification that the warning signs are in-place, intact, and readable.
- Visual observation of the soil and asphalt cover for indications of subsidence, erosion, and unauthorized use.

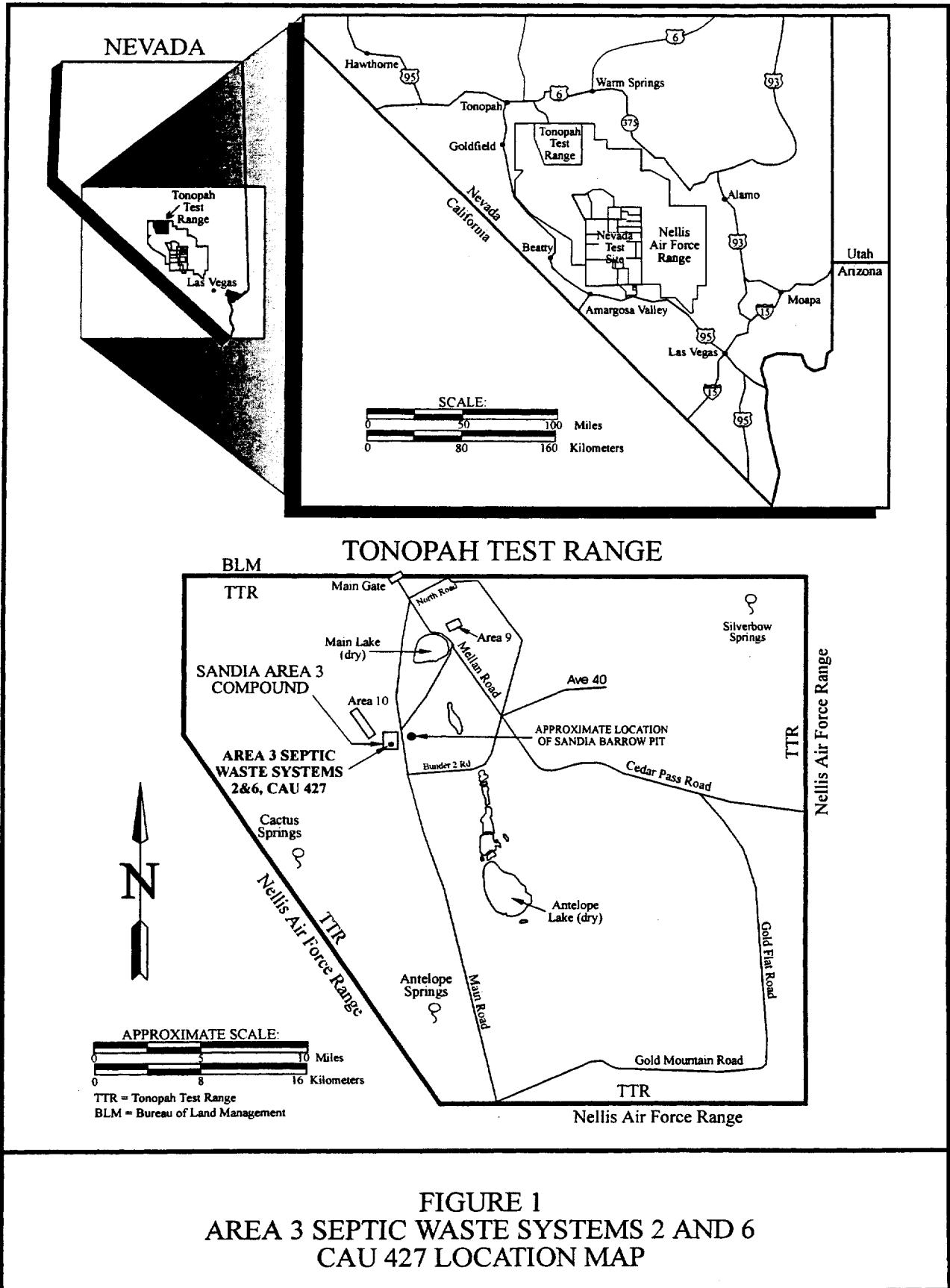
The site inspections were conducted on June 20, 2000, and November 21, 2000. All inspections were made after NDEP approval of the CR, and were conducted in accordance with the Post-Closure Inspection Plan in the NDEP-approved CR. No maintenance or repairs were conducted at the site.

This report includes copies of inspection checklists, photographs, recommendations, and conclusions. Copies of the Post-Closure Inspection Checklists are found in Attachment A, a copy of the field notes is found in Attachment B, and a copy of the inspection photographs is found in Attachments C.

2.0 INSPECTION RESULTS

2.1 June 20, 2000 Inspection

The first annual inspection was conducted on June 20, 2000. All 20 subsurface metal markers were located at the corners of the Leachfield A (4 markers), Leachfield B (4 markers), Pre-1965 Leachfield (4 markers), Abandoned Leachfield (4 markers), and Septic Tank 33-5 (4 markers) with a metal detector. The four warning signs were observed to be at the as-built locations on Building 03070T (two signs), Building 0367 (one sign), and east of Building 0367 (one sign). No damage to the signs was observed, and all signs were in good readable condition. The soil and asphalt cover areas are located in high traffic areas. Based upon the traffic and yard maintenance activities, no vegetation was observed in the areas. Additionally, no features were observed to indicate subsidence, erosion, or unauthorized use (cracks, depressions, erosional channeling, etc.) of the closed sites.



2.2 November 20, 2000 Inspection

The second inspection was made on November 20, 2000. All twenty subsurface metal markers were located at the corners of the Leachfield A (4 markers), Leachfield B (4 markers), Pre-1965 Leachfield (4 markers), Abandoned Leachfield (4 markers), and Septic Tank 33-5 (4 markers) with a metal detector. The four warning signs were located as shown on the As-built drawing on Building 03070T (two signs), Building 0367 (one sign) and east of Building 0367 (one sign). No damage to the signs was observed, and all signs were in good readable condition. The soil and asphalt cover areas are located in high traffic areas. Based upon the traffic and yard maintenance activities, no vegetation was observed in the areas. A small erosional rill measuring approximately 10 - 15 centimeters (4 - 6 inches) deep was observed trending west along side an access road and ending in a parking area. This feature did not affect the integrity of the cover. Additionally, no features were observed to indicate subsidence, erosion, or unauthorized use (cracks, depressions, erosional channeling, etc.) of the closed sites.

3.0 CONCLUSIONS AND RECOMMENDATIONS

All signs and subsurface markers were in place. No surface features affecting the integrity of the cover area were observed in the soil and asphalt cover to indicate subsidence, erosion, or unauthorized use.

Inspection of CAU 427 is recommended for the second year as proposed in the CR. Modifications/repairs or inspection frequency are not recommended as a result of the observations conducted.

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APPENDIX A
INSPECTION CHECKLISTS

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POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

Date of Last Inspection: <i>N/A First Annual Insp.</i>	Reason for Last Inspection: <i>N/A</i>
Responsible Agency: <i>DOE/NU</i>	Project Manager: <i>Wayne Johnson</i>
Inspection Date: <i>6/20/00</i>	
Inspector: <i>Kevin Campbell</i>	Title: <i>Geologist/Hyd.</i> Organization: <i>Bethel M.</i>
Assistant Inspector (optional): <i>N/A</i>	Title: Organization

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary so a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
3. Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to the narrative, will take the form of sketches, measurements, and/or annotated site maps.
4. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
5. A standard set of color photographs (35 mm, digital, or equivalent) are required to document reportable changes in site conditions between inspections. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken and submitted with the checklist referencing it.
6. This unit will be inspected annually with formal reporting to the Nevada Division of Environmental Protection before completion of the fiscal year in which the inspection occurred. The annual report will include: a narrative summary including recommendations and conclusions; this inspection checklist; inspection field notes; a maintenance record; and photo log (when reportable changes in site conditions are noted).

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.	✓		
2. Previous inspection reports reviewed.		✓	<i>This was first inspection</i>
a. Were anomalies or trends detected on previous inspections?		✓	<i>This was first inspection</i>

POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
2. b. Was maintenance performed?		✓	
3. Site maintenance and repair records reviewed.		✓	<i>First Annual Inspection</i>
a. Has site repair resulted in a change from as-built conditions?		✓	<i>No repairs made/required</i>
b. Are revised as-builts available that reflect repair changes?		✓	<i>First Annual Inspection</i>
C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features.			
a. Have there been any changes in use of adjacent areas?		✓	
b. Change in surrounding vegetation?		✓	
2. Security, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments? (disturbed by man or natural processes?)		✓	
b. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)		✓	<i>4 signs in excellent cond.</i>
c. Were all subsurface markers detected? (i.e. using a magnetometer or equivalent)	✓		<i>20 markers located w/ Schoenstadt</i>

POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

3. Soil/asphalt cover.

- a. Is there evidence of settling?
- b. Is there cracking?
- c. Is there evidence of erosion near the use restriction boundaries?
- d. Is there evidence of animal burrowing?
- f. Is there vegetation?
- g. Do natural processes threaten to integrity of any cover or site marker?
- h. Is there evidence suggesting unauthorized excavations have taken place?
- h. Other?

YES NO EXPLANATION

	✓	
	✓	
	✓	
	✓	
	✓	Heavily trafficked area prohibits veg. growth
	✓	
	✓	
	✓	

4. Photo Documentation

- a. Has a photo log been prepared?

	✓	
--	---	--

- c. Number of photos taken (6)

D. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)

	✓	
--	---	--

Person/Agency to whom report made:

2. Are more frequent inspections required?

	✓	
--	---	--

3. Are existing maintenance/repair actions satisfactory?

		N/A no maintenance/repairs required
--	--	-------------------------------------

4. Is other maintenance/repair necessary?

	✓	
--	---	--

5. Rationale for field conclusions: The rationale for the conclusions are based on observations made that indicate there is no change to the site use and surface conditions

POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

E. CERTIFICATION

I have conducted an inspection of the CAU 427, Area 3 Septic Systems 2 & 6, at the TTR following the Post-Closure Inspection Plan* as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

*see the CAU 427 Closure Report for post-closure inspection requirements

Chief Inspector's Signature: *Kevin B. Campbell*Printed Name: *Kevin B. Campbell*Title: *Geologist / Hydrologist*Date: *6/20/00*

POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

Date of Last Inspection: <u>6/20/00</u>	Reason for Last Inspection: <u>2nd Annual Inspection</u>
Responsible Agency: <u>BN/ER DDE/NV</u>	Project Manager: <u>Wayne Johnson BN</u>
Inspection Date: <u>11/20/00</u>	
Inspector: <u>Daniel S. Tobiasen</u>	Title: <u>Scientist</u> Organization: <u>DN</u>
Assistant Inspector (optional):	Title: Organization

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary so a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
3. Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to the narrative, will take the form of sketches, measurements, and/or annotated site maps.
4. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
5. A standard set of color photographs (35 mm, digital, or equivalent) are required to document reportable changes in site conditions between inspections. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken and submitted with the checklist referencing it.
6. This unit will be inspected annually with formal reporting to the Nevada Division of Environmental Protection before completion of the fiscal year in which the inspection occurred. The annual report will include: a narrative summary including recommendations and conclusions; this inspection checklist; inspection field notes; a maintenance record; and photo log (when reportable changes in site conditions are noted).

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.	✓		
2. Previous inspection reports reviewed.	✓		
a. Were anomalies or trends detected on previous inspections?		✓	

POST-CLOSURE INSPECTION CHECKLIST
CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
2. b. Was maintenance performed?	-	✓	
3. Site maintenance and repair records reviewed.		✓	<i>Noe required thus No Records</i>
a. Has site repair resulted in a change from as-built conditions?		✓	<i>N/A</i>
b. Are revised as-builts available that reflect repair changes?		✓	<i>N/A</i>
C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features.			
a. Have there been any changes in use of adjacent areas?		✓	
b. Change in surrounding vegetation?		✓	
2. Security, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments? (disturbed by man or natural processes?)		✓	
b. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)		✓	
c. Were all subsurface markers detected? (i.e. using a magnetometer or equivalent)	✓		

POST-CLOSURE INSPECTION CHECKLIST

CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

	YES	NO	EXPLANATION
3. Soil/asphalt cover.			
a. Is there evidence of settling?		✓	
b. Is there cracking?		✓	
c. Is there evidence of erosion near the use restriction boundaries?	✓		Erosion fill SW of Bldg 370T. Approx 4-6' deep
d. Is there evidence of animal burrowing?		✓	
f. Is there vegetation?		✓	
g. Do natural processes threaten to integrity of any cover or site marker?		✓	
h. Is there evidence suggesting unauthorized excavations have taken place?		✓	
h. Other?		✓	
4. Photo Documentation			
a. Has a photo log been prepared?	✓		
c. Number of photos taken (6)			
D. FIELD CONCLUSIONS			
1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report made:			
2. Are more frequent inspections required?		✓	
3. Are existing maintenance/repair actions satisfactory?			N/A
4. Is other maintenance/repair necessary?		✓	
5. Rationale for field conclusions: No change in site since last inspection except for fill SW of Bldg. 370T. This fill does not affect the integrity of the unit.			

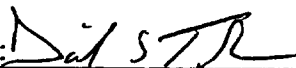
POST-CLOSURE INSPECTION CHECKLIST
CAU 427: Area 3 Septic Waste Systems 2 & 6, Tonopah Test Range, Nevada

E. CERTIFICATION

I have conducted an inspection of the CAU 427, Area 3 Septic Systems 2 & 6, at the TTR following the Post-Closure Inspection Plan* as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

*see the CAU 427 Closure Report for post-closure inspection requirements

Chief Inspector's Signature:



Printed Name: Daniel S. Robinson

Title: Scientist

Date: 11/20/00

APPENDIX B
FIELD NOTES

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6/20/00

Inspection of CAU 427, Area 3 TTR. - First Annual Inspection.
o Arrive on site with C. Blackburn of Westinghouse. Claim takes
all photographs. 10 digital and 10-35 mm.

- No vegetation present due to heavy foot and vehicle traffic.

= All CAU signs & shown on As-built's present and in excellent
condition. 4 signs total. Signs on buildings 370T and 367.

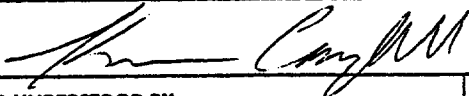
- All subsurface corner markers for land fields & septic tanks
locations located with metal detector. 20 subsurface monuments
present.

~~Did not~~

= Completed CAU 427 post closure inspection.

KBC

TURE



DATE

6/20/00

USED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

TITLE

Work continued from Page 27

PROJECT NO.

BOOK NO.

TTR POST-CLOSURE INSPECTIONS, CONTINUED

ONDAY, NOVEMBER 20, 2000

CLEAR, CALM, COOL (50°)

15 INSPECTION OF CAU 427, AREA 3 TTR. SECOND ANNUAL INSPECTION

ALL SIGNS AS SHOWN ON AS-BUILT DRAWINGS ARE PRESENT
AND IN EXCELLENT CONDITION.

ONE SIGN POSTED IN FRONT OF BLDG. 0367 ^{DE} ^{EAST SIDE} NEAR
SEPTIC TANK 335, AND ONE SIGN ON WEST WALL
OF BLDG 0367.

ONE SIGN EACH ON THE SOUTH AND WEST WALLS
OF BUILDING 0370T.

NO VEGETATION PRESENT DUE TO HEAVY VEHICLE AND FOOT TRAFFIC

EROSIONAL RILL APPROX. 4-6" DEEP ALONGSIDE ACTIVE ROADWAY
SOUTH OF BLDG. 0370T. RILL EXTENDS TO THE WEST INTO THE
PARKING AREA. DOES NOT AFFECT THE INTEGRITY OF THE UNIT.

LOCATED 2D SUBSURFACE SURVEY MARKERS WHICH IDENTIFY
THE CORNERS OF THE LEACHFIELDS AND SEPTIC TANKS. MARKERS
WERE LOCATED USING A METAL DETECTOR.

0 FINISH CAU 427 INSPECTION.

ERY PRODUCTIONS CHICAGO 80605 Made in USA

Work continued to Page 28

Dan S. TTR
TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

DATE

11/20/00

APPENDIX C

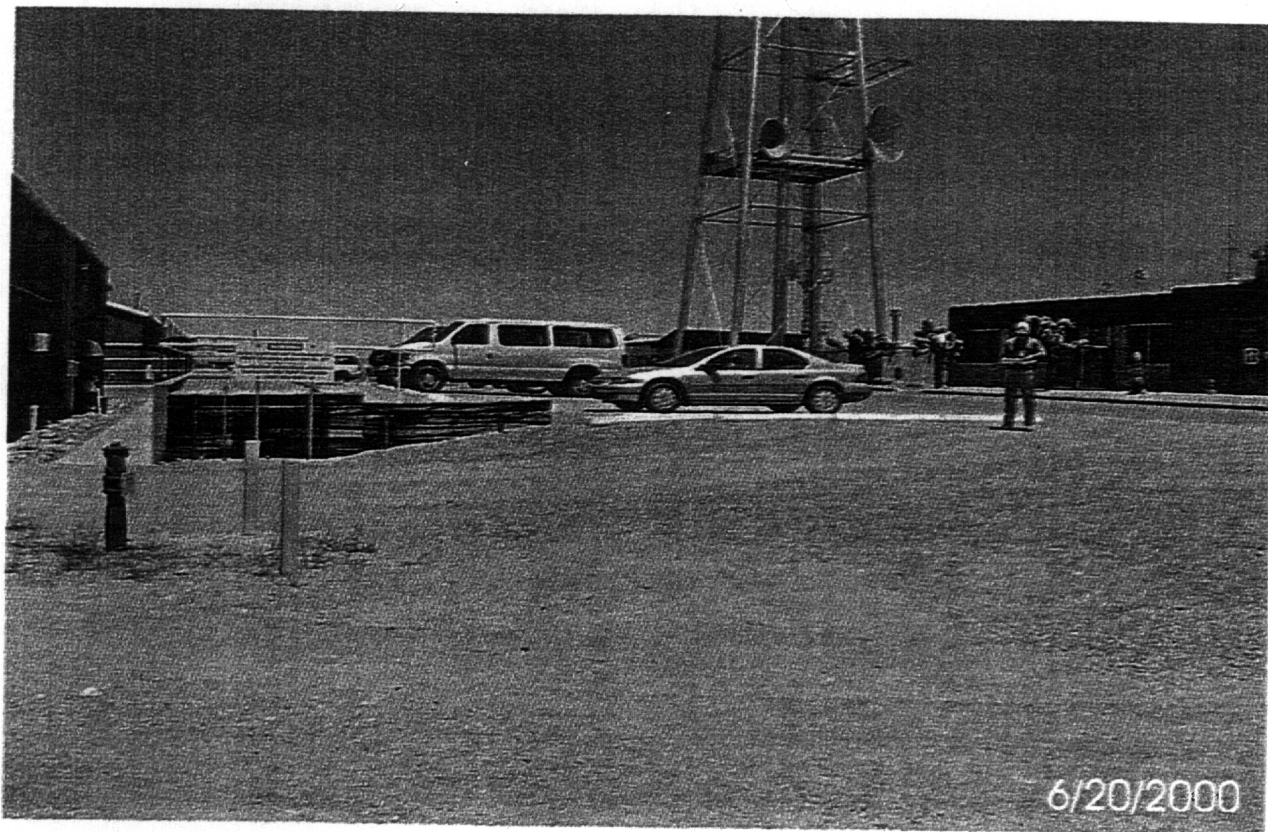
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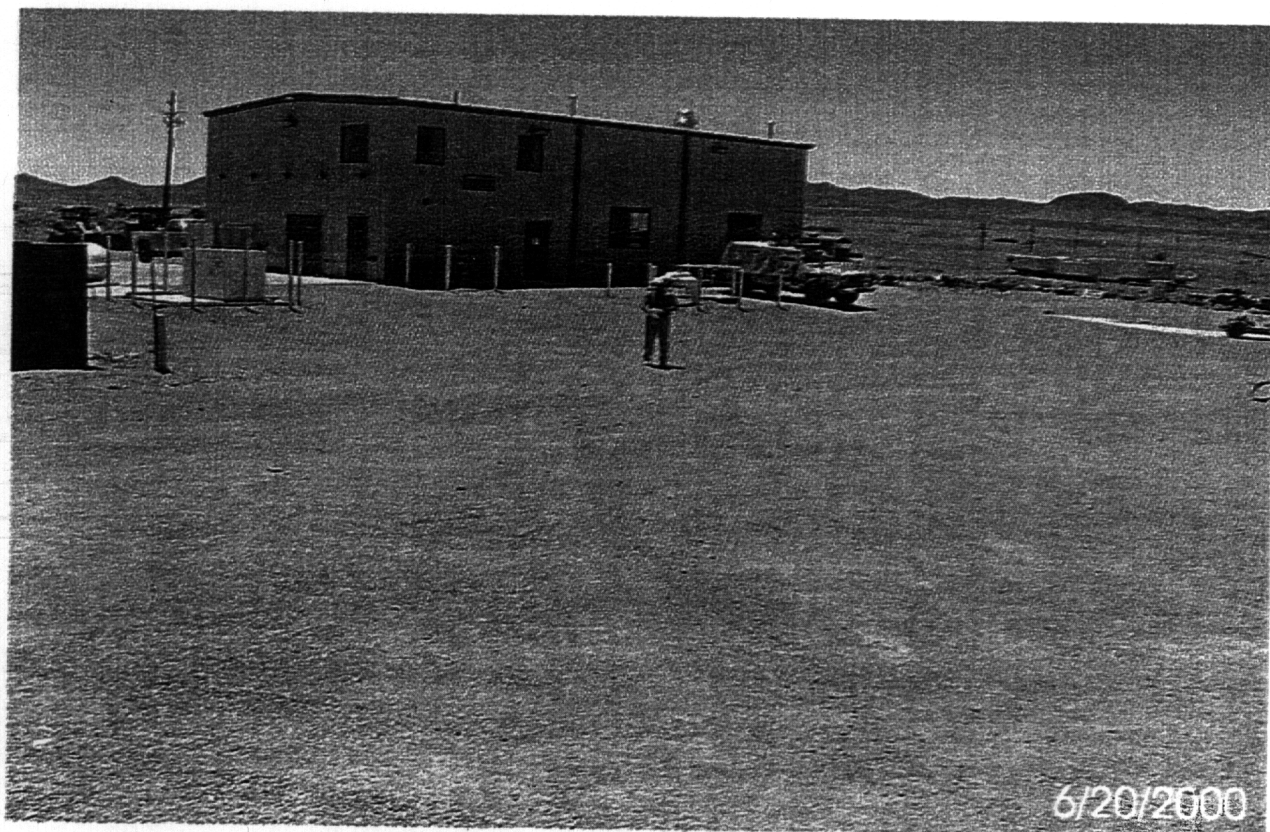
PHOTOGRAPH LOG

PHOTO NUMBER	DATE	DESCRIPTION
1	6/20/2000	View north over Septic Tank 33-5 (central area of photograph). Warning sign on west side of septic tank can be seen at the left of the photograph.
2	6/20/2000	View to southwest across Pre-1965 Leachfield. Person standing in central area of photograph is in the approximate location of Septic Tank 33-4. The south end of Leachfield A, Leachfield B, and Abandoned Leachfield are located in the bottom right quarter of the photograph.
3	6/20/2000	View to southeast across Pre-1965 Leachfield. Warning sign on the west side of Building 0367 is visible in the center of the photograph.
4	6/20/2000	View to northwest of Leachfield B and Abandoned Leachfield. Person in photograph is standing at the approximate northwest boundary of Leachfield B and Abandoned Leachfield. Warning sign on south side of Building 0370T can be seen in the upper right corner of the photograph. The south end of Leachfield A is in the lower right quarter of the photograph.
5	6/20/2000	View to southeast of Abandoned Leachfield and Leachfield B. Person in photograph is standing at the approximate southeast boundary of Abandoned Leachfield, Leachfield A, and Leachfield B. Warning sign on west side of Building 0370T is visible on building on the left side of the photograph.
6	6/20/2000	View to south from North side of Building 0370T. Person in photograph is standing at approximate northern boundary of Leachfield A.
7	11/20/2000	View north of Septic Tank 33-5 area. Warning sign visible.
8	11/20/2000	View southwest of Pre-1965 Leachfield and location of septic tanks 33-4 and 33-6.
9	11/20/2000	View east of south end of Pre-1965 Leachfield and septic tank 33-4. Warning sign on Building 0367 visible.
10	11/20/2000	View northwest of Abandoned Leachfield and Leachfield B. Small erosion rill evident on the south side of leachfields. Warning sign on south side of Building 0370T visible.

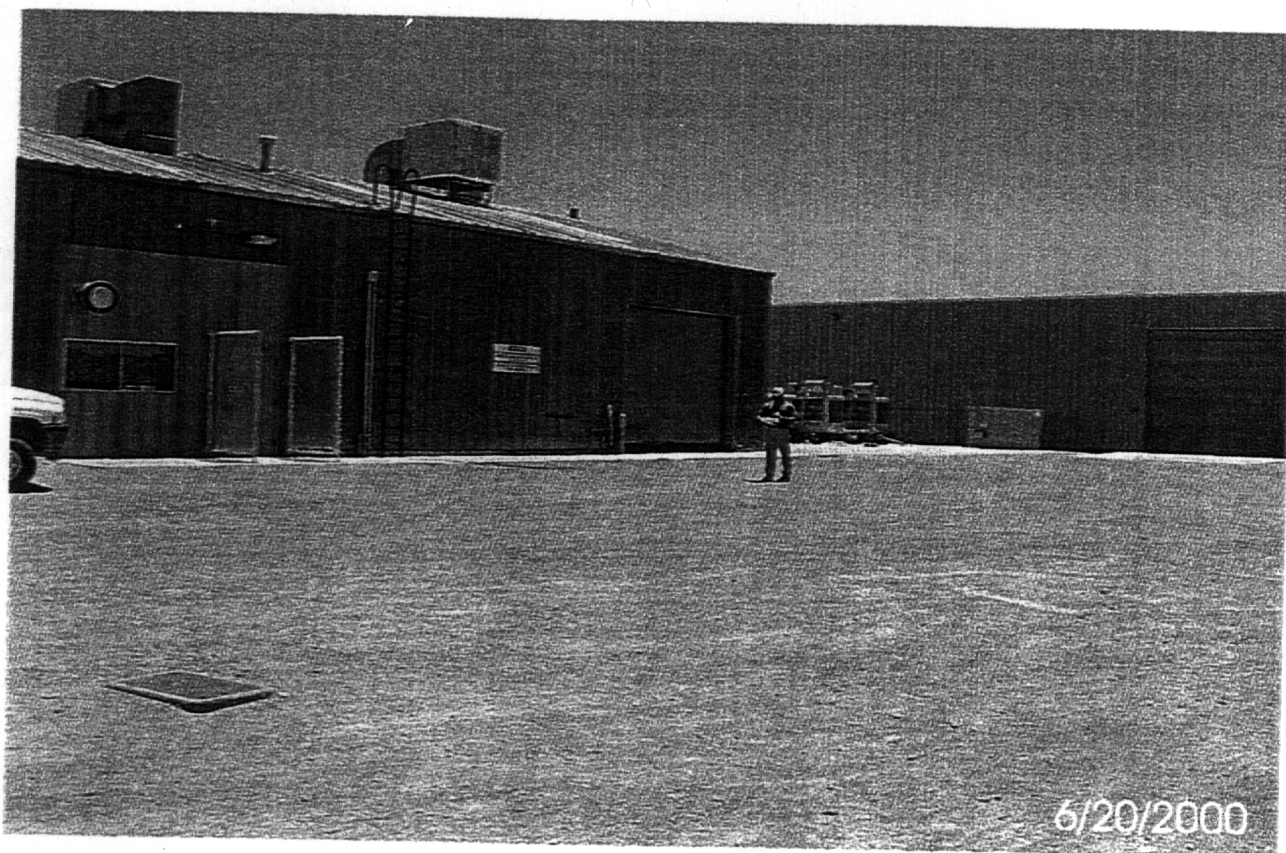
PHOTO NUMBER	DATE	DESCRIPTION
11	11/20/2000	View southeast of Abandoned Leachfield and Leachfield B. Erosion rill south of Abandoned Leachfield visible. Warning sign on west side of Building 0370T visible.
12	11/20/2000	View south looking at building atop Leachfield A.



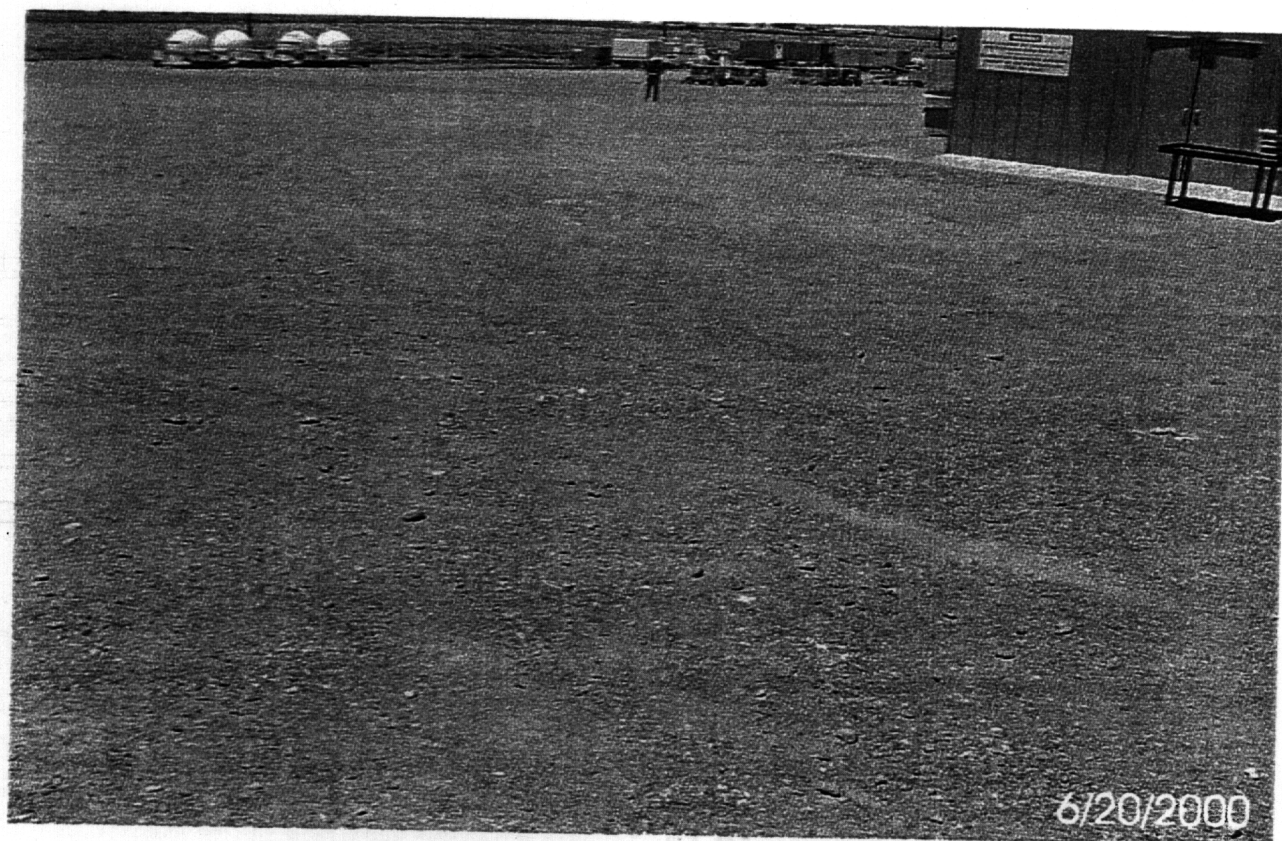
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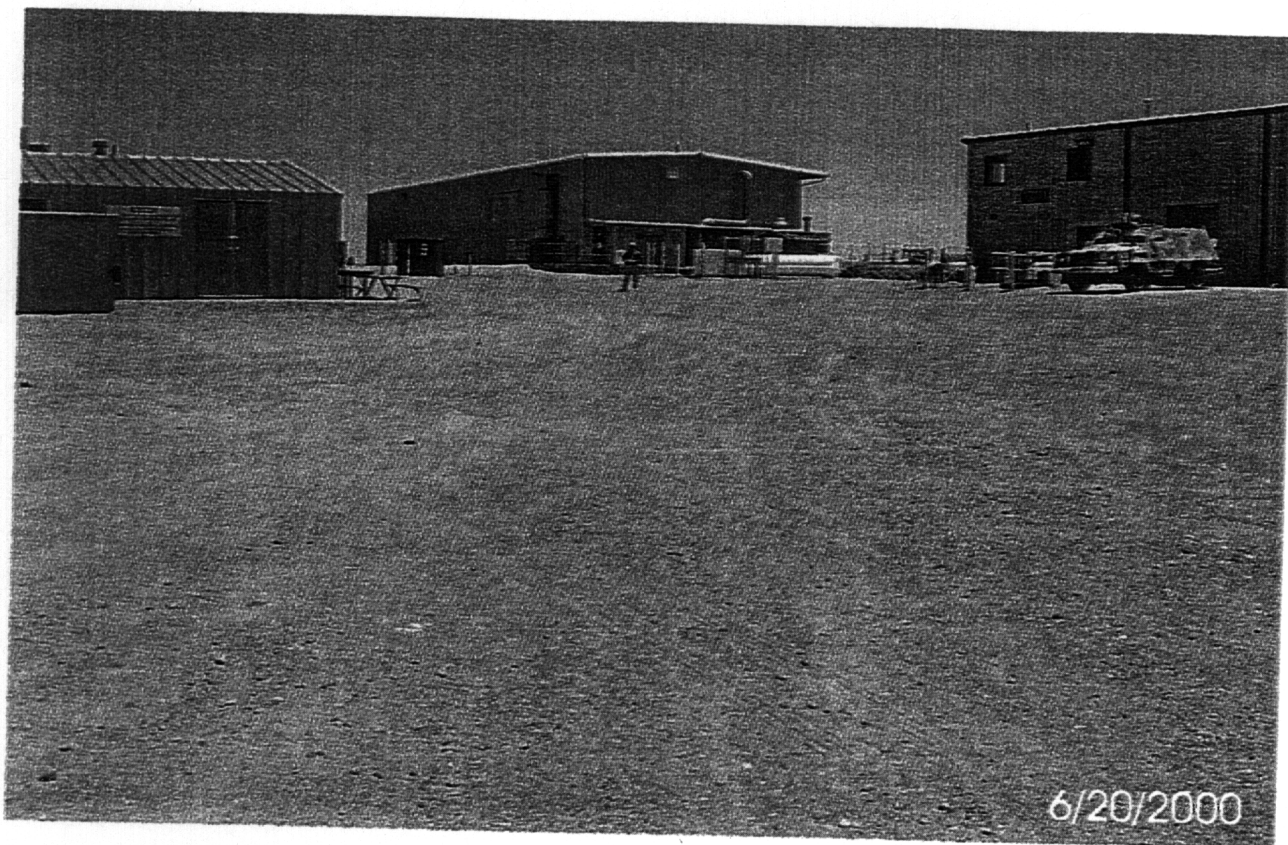
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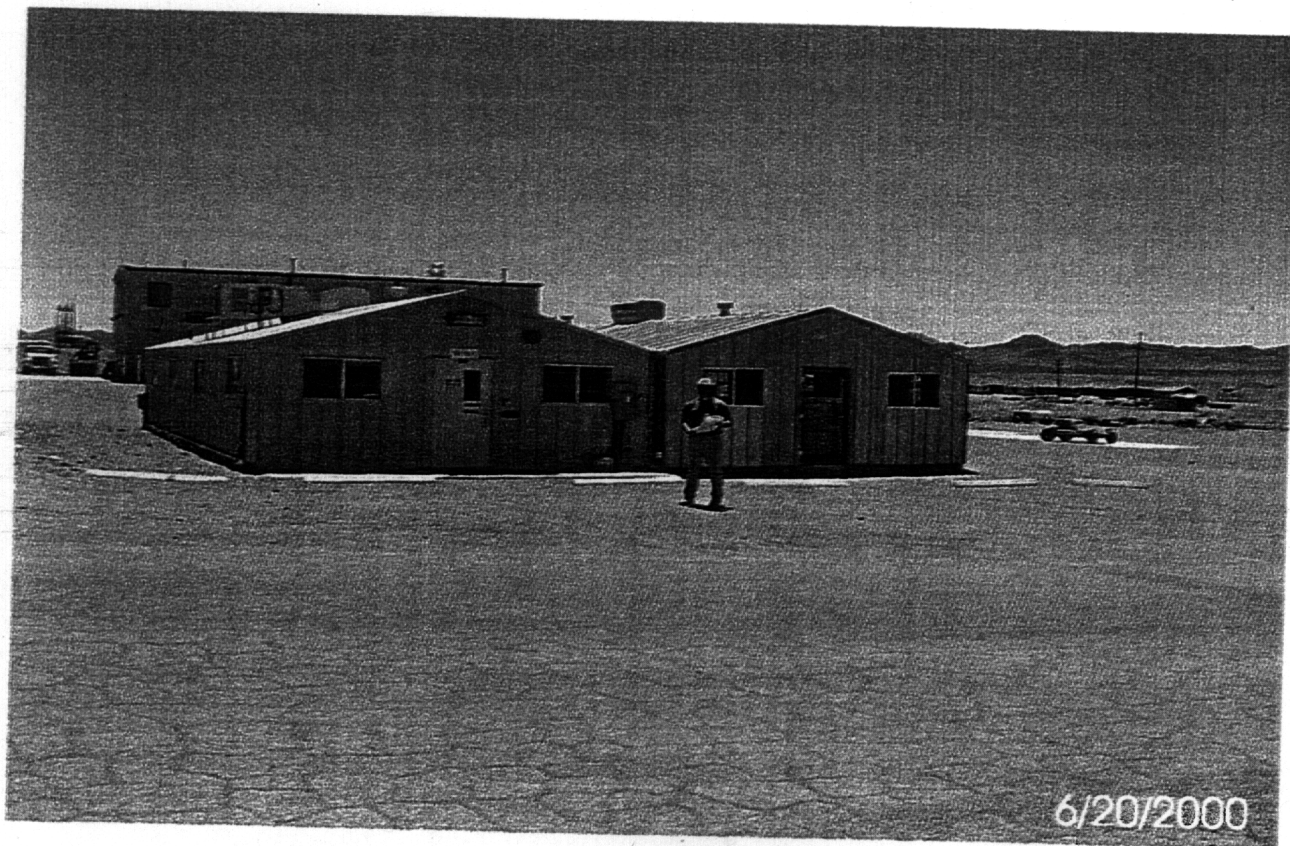
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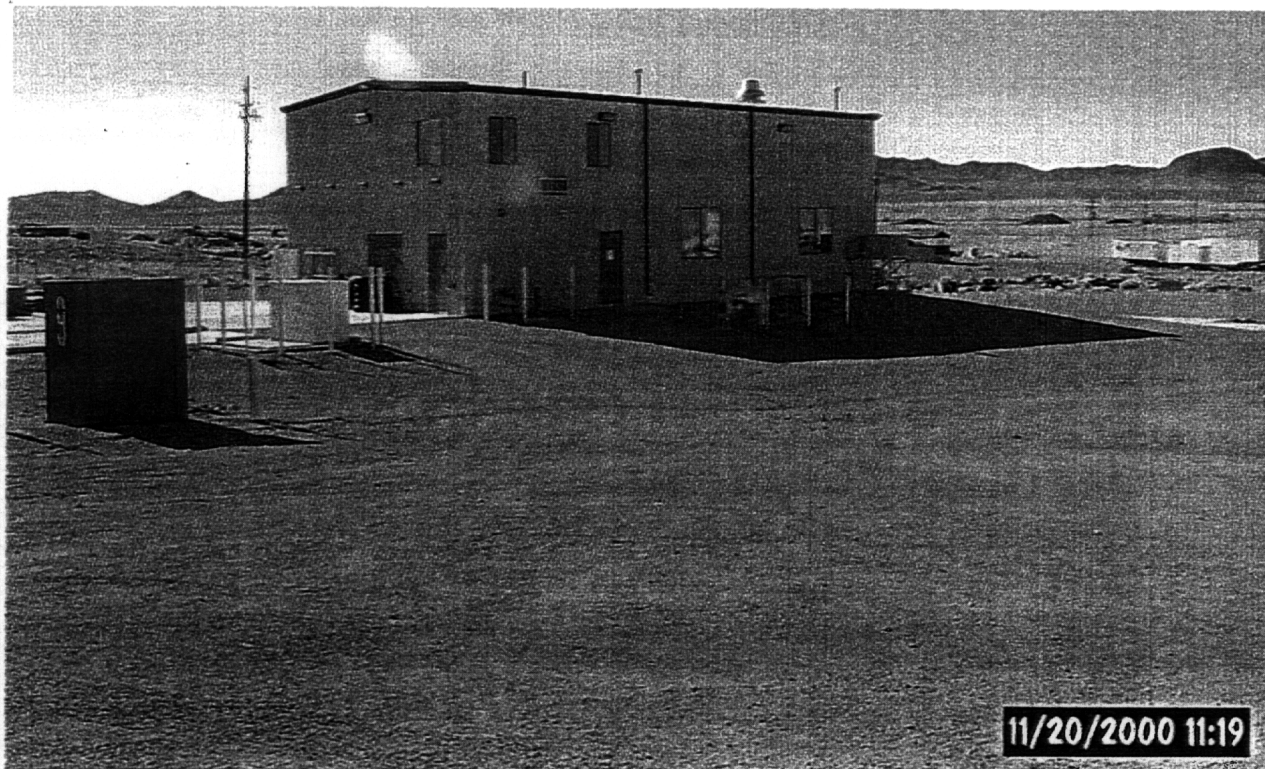
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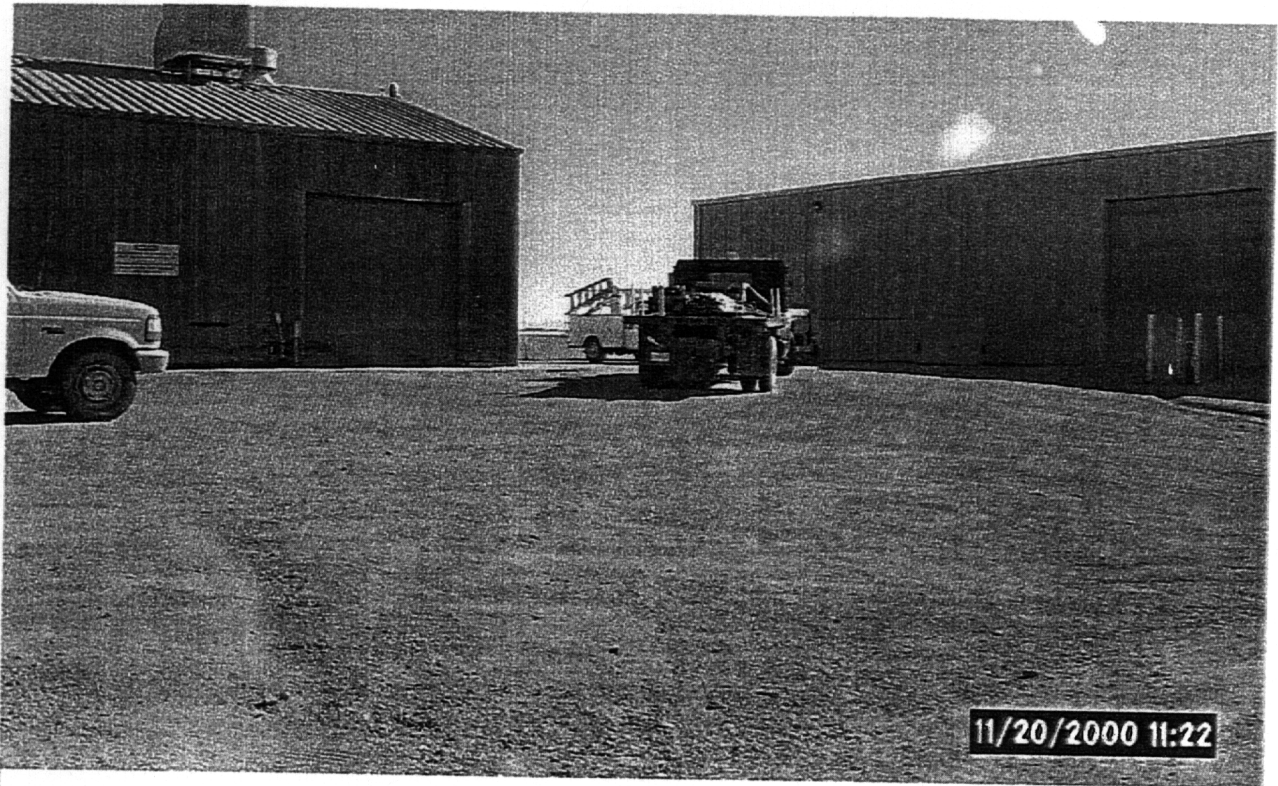
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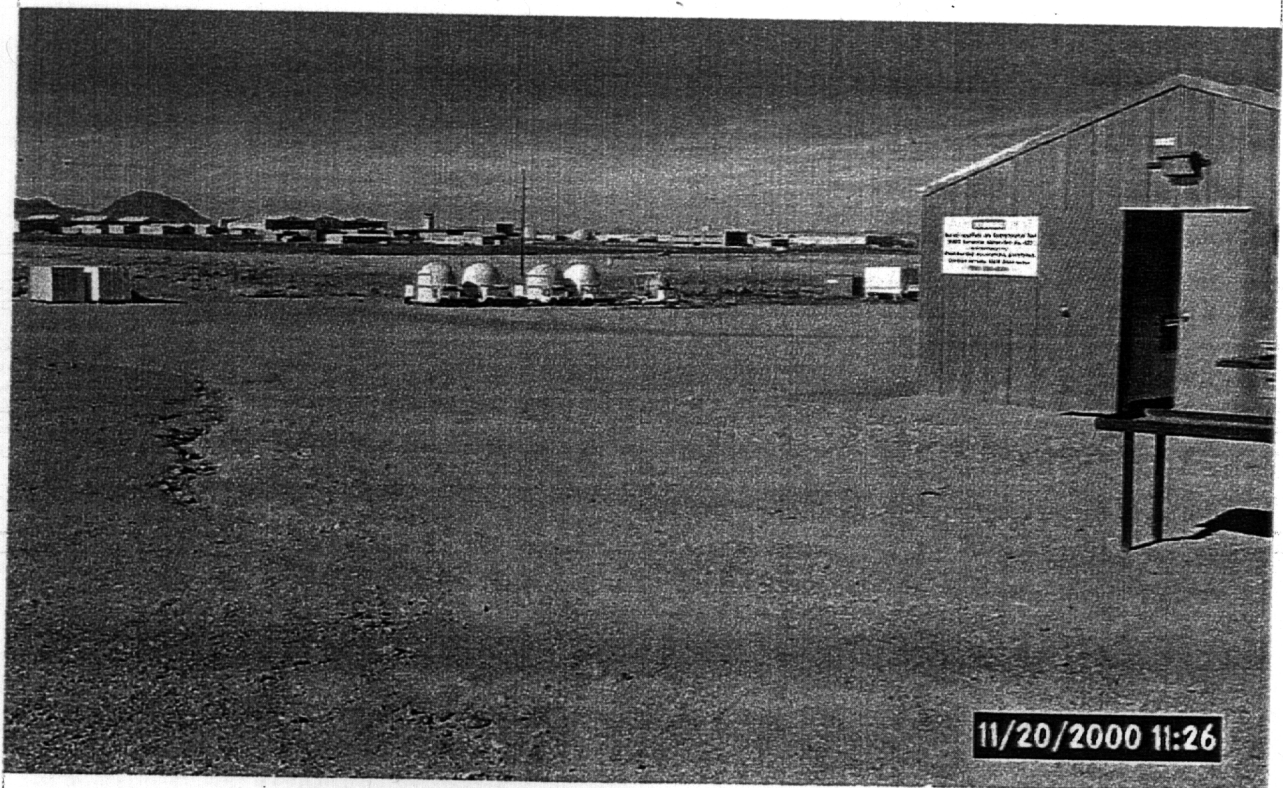
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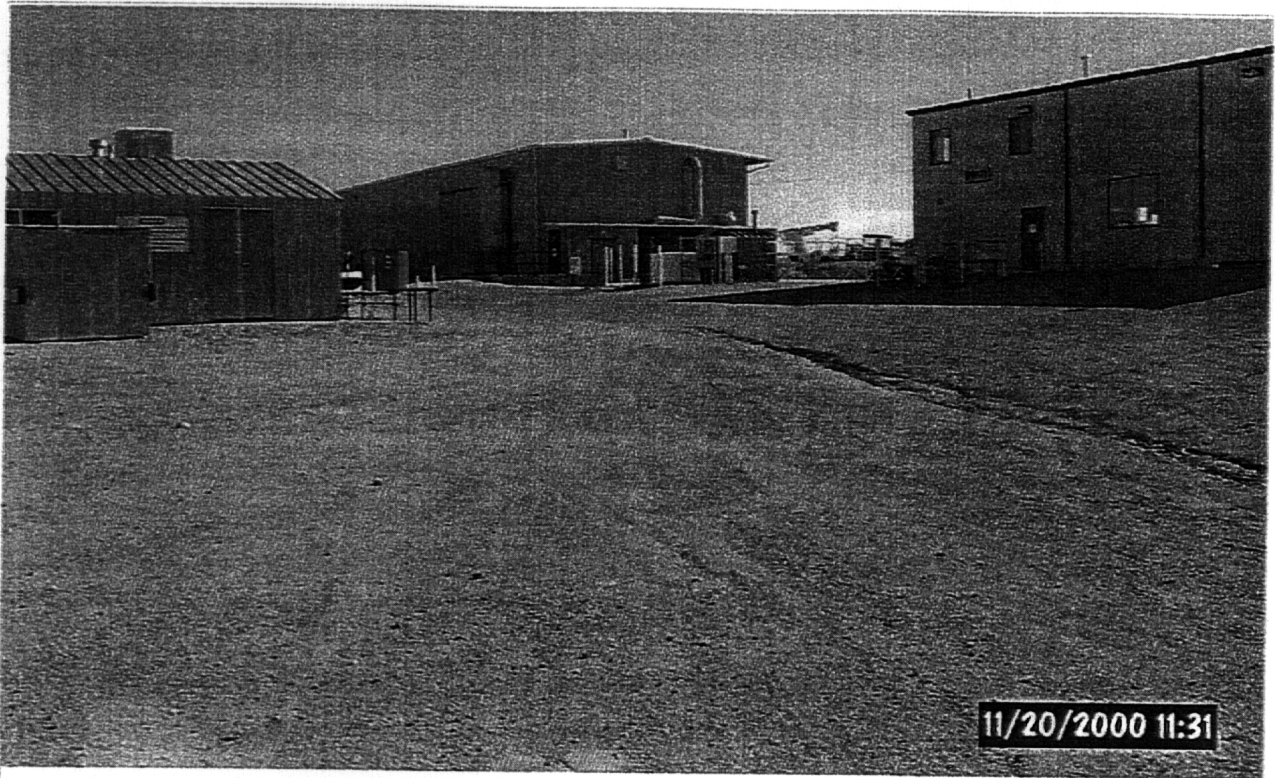
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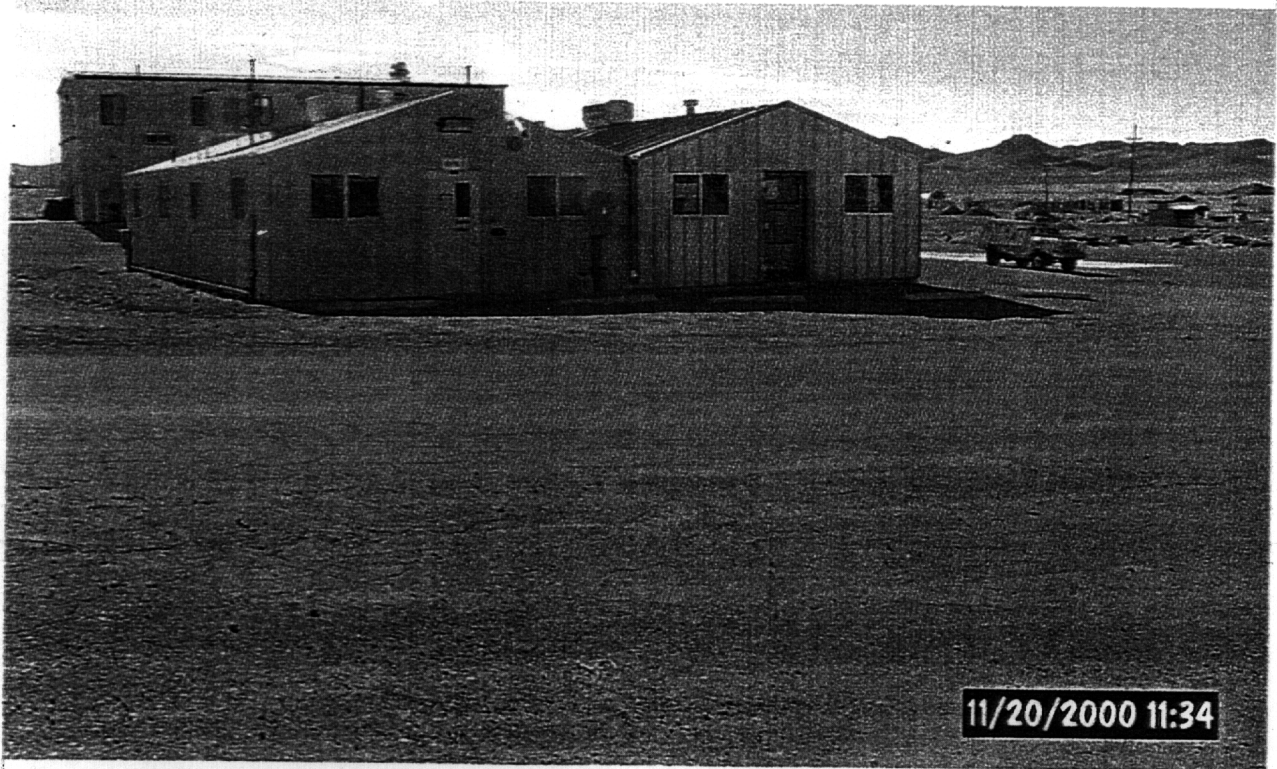
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