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PRELIMINARY ASSESSMENT FOR THE

STANDARD OIL COMPANY REFINERY - LARAMIE

PREPARED BY: KATIE SEWELL

DATE: AUGUST 23, 1984

On May 17, 1984, Katie Sewell with the Wyoming Department of Environmental Quality (WDEQ), Solid Waste Management (SWM) and Phil Pucel with WDEQ, Water Quality Division (WQD) visited the abandoned Standard Oil Company Refinery in Laramie. A second site visit was made on August 13, 1984, accompanied by Amoco representatives John Huddle, Ed Sullivan and Tony Gogle.

The Standard Oil Company Refinery was located in northwest Laramie straddling the Laramie River and bounded on the east by the Union Pacific Railroad and on the north by Curtis Street. Midwest Refining Company built the refinery at Laramie in about 1919. Standard Oil Company built pressure stills adjacent to the refinery to process gas oil from Midwest sometime after 1919. In 1922 Standard Oil Company aquired and operated the refinery until it shut down in 1932.

There is very little evidence today of the former refinery. On the south eastern edge of the property are concrete remains of the pressure stills. Tank firewalls can still be seen in the central portion of the site. Brick and concrete debris are scattered along the bank of the Laramie River and the sump used as a reservoir at the river intake still holds water.

Some areas of concern numbered on the attached site sketch are as follows:

1. The former refining area located in the southwest corner of the property. The main concern here is subsurface contamination from leaking pipes, and spillage.

2. A sunken area containing a black oily waste mixed with bricks was seen near the river in the southwest corner of the site. There was also a trench with barrels, cans, building debris, insulating material and a little standing liquid.

3. An oil separator was located on an old real estate map provided by Amoco and then seen at the site. The edge is visible but it has been filled with soil and rubble.

4. An acid sludge sump was also identified on an old real estate map. No evidence of the sump was seen during the site visit.

5. Tank dikes remain in the tank storage area. A black oily waste was found inside the tank firewalls at several locations.

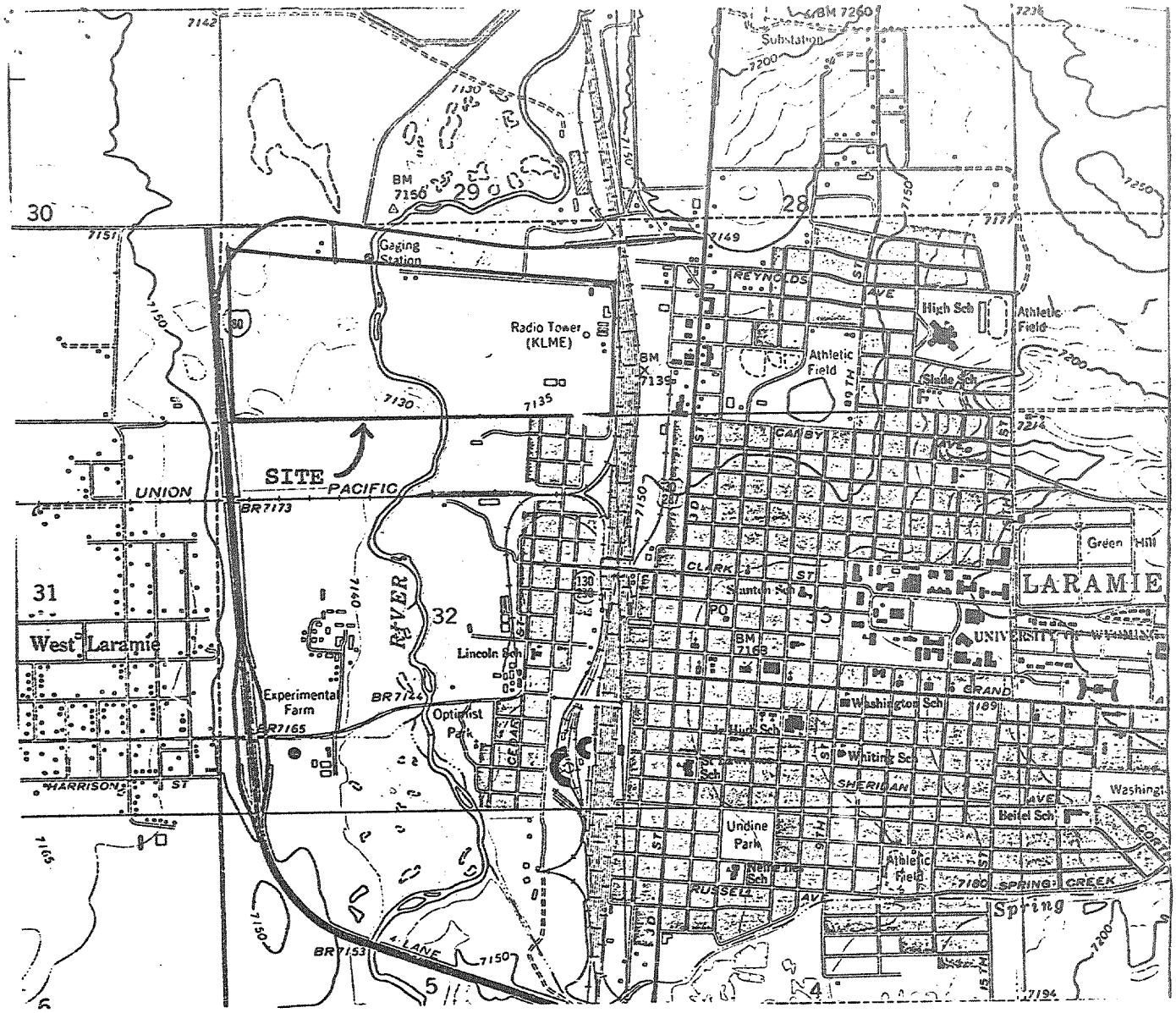
6. A sump used to hold process water is still present on the site.

7. East of the sump is a disposal area located inside an old tank firewall. A variety of wastes were seen here including black sludges, white powdery material, cans, barrels, and building debris.

During the site visit on August 13, 1984, Amoco representatives agreed to install observation wells along the edge of the Laramie River and near disposal areas on the site. They will submit all proposals to the appropriate Wyoming regulatory agency and to Liz Evans with the U. S. Environmental Protection Agency and continue a site investigation as needed.

CONCLUSION

Amoco Oil Company is proceeding to investigate contamination at the Standard Oil Company Refinery. They are working closely with the State of Wyoming and Federal agencies responsible for governing contamination and cleanup of the site. It is recommended that CERCLA activity at this site consist of reviewing planned actions and observing on-site operations when necessary.



STANDARD OIL COMPANY REFINERY

LARAMIE, WYOMING

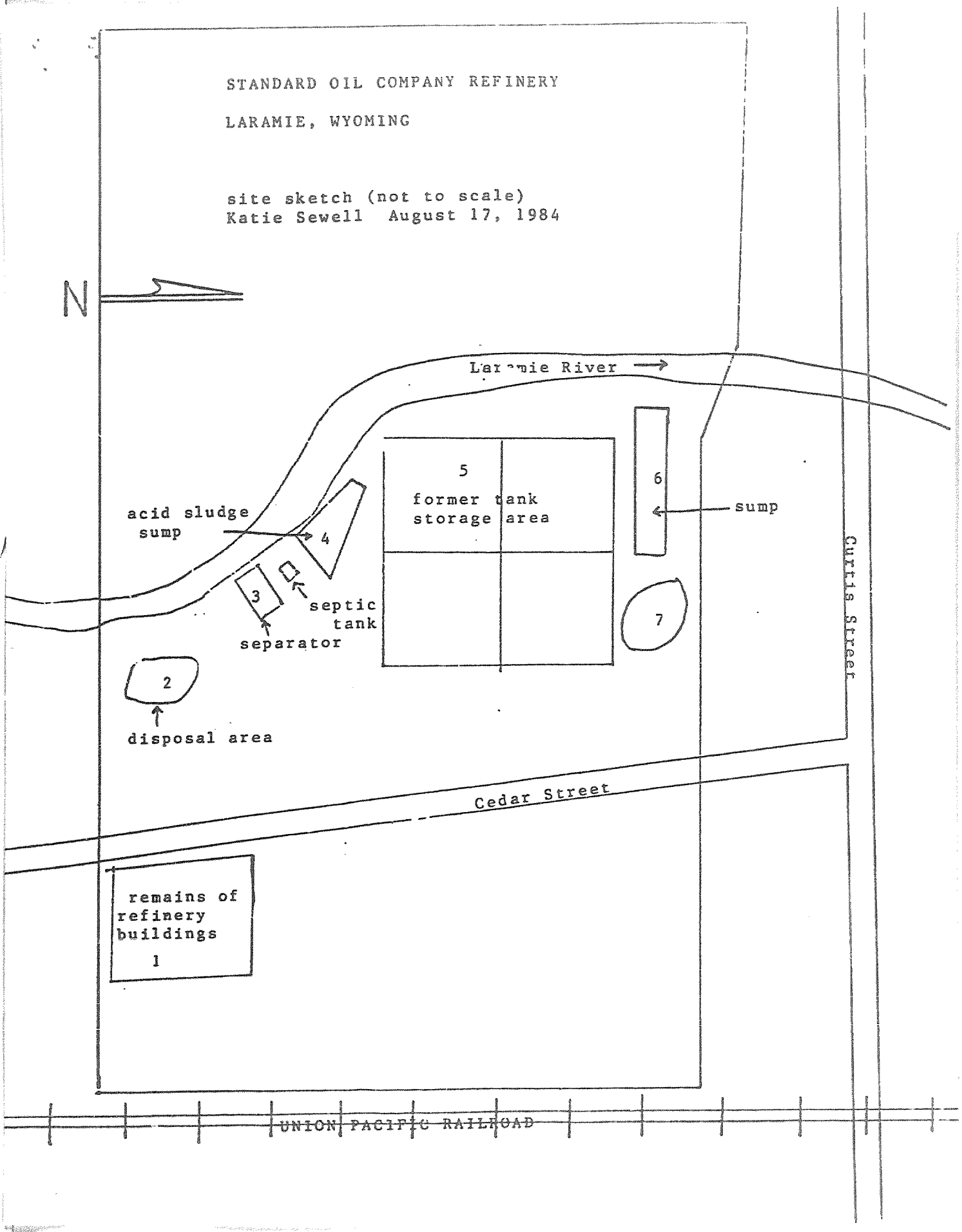
site location map reference: USGS topo map
1" = 2000' Laramie quad

Katie Sewell
August 20, 1984

STANDARD OIL COMPANY REFINERY

LARAMIE, WYOMING

site sketch (not to scale)
Katie Sewell August 17, 1984



EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Standard Oil Company Refinery	N. Cedar St.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Laramie	WY	82070	Albany		

09 COORDINATES LATITUDE 41°19'27" LONGITUDE 105°36'10"

10 DIRECTIONS TO SITE (Starting from nearest public road)

located in northwest Laramie south of Curtis St. and west of the Union Pacific Railroad

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
George Millett / Hubert Nickel	

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER M	N
Laramie / Wheatland	WY		807721-5291	322-4511

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Amoco Oil Company	200 East Randolph St.

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Chicago	IL	60680	812856-7826

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 5/17/84 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1919 (BEGINNING YEAR) | 1932 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

petroleum refining wastes

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

potential for soil, groundwater, and surface water contamination

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
John Huddle	Amoco Oil Company	812856-7826

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Katie Sewell	WDEQ	Solid Waste	307)777-7752	8/17/84 (MONTH DAY YEAR)

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER _____ *(Specify)*
- [ ] E. SLURRY
- [ ] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE *(Measures of waste quantities must be independent)*

TONS _____

CUBIC YARDS unknown

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [ ] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

the refinery was located in an alluvial area with groundwater 5 - 10 feet deep

01 ☒ B. SURFACE WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

the Laramie River runs through the site

01 ☐ C. CONTAMINATION OF AIR
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

the site is not fenced

01 ☒ F. CONTAMINATION OF SOIL
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
04 NARRATIVE DESCRIPTION

from leaks, spills and disposal activity

01 ☐ G. DRINKING WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

from contaminated soil and other disposal activities

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

aquatic species

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

see narrative

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

John Huddle - Amoco Oil Company, Chicago
WDEQ - Water Quality Division, Cheyenne

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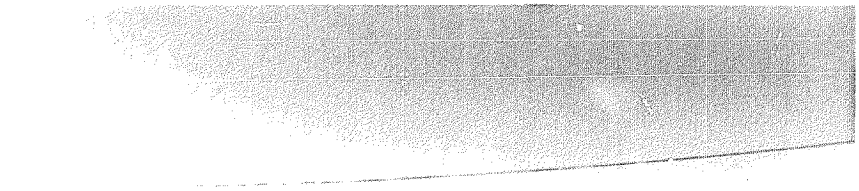
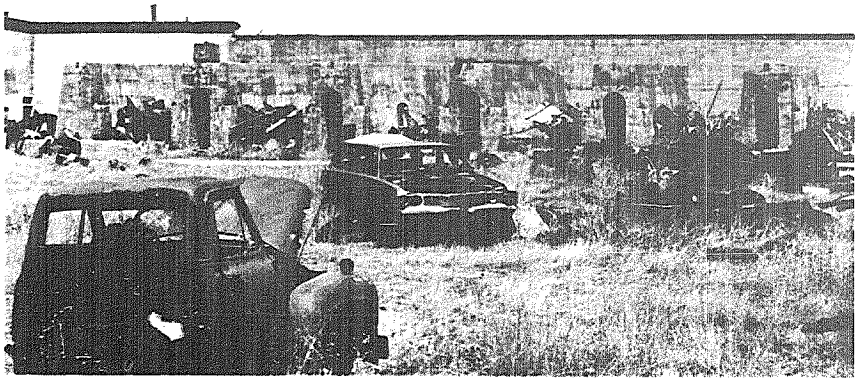
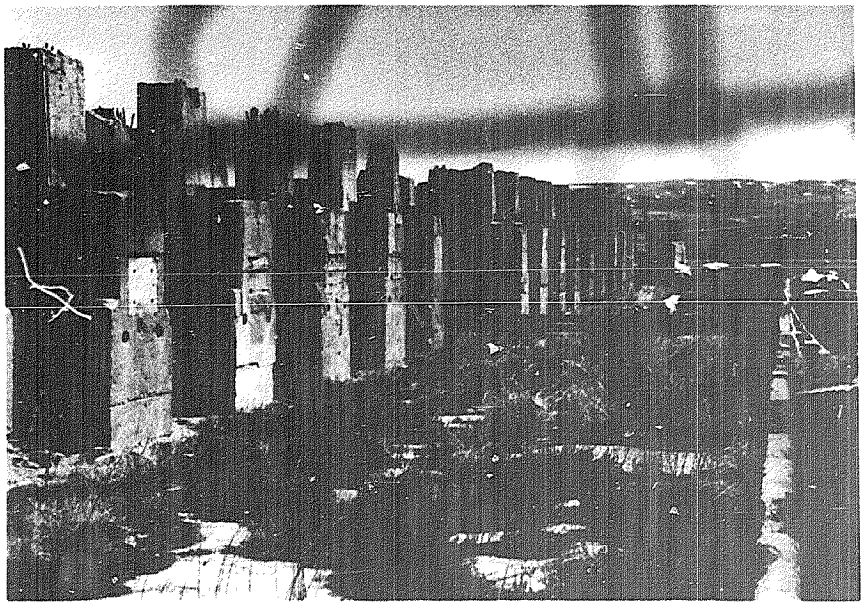
Laramie Refinery
Laramie
May 17, 1984 K. Sewell





old refinery buildings

old refinery buildings



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Laramie Refinery - Laramie

May 17, 1984
K. Sewell

waste disposal area - 2

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Laramie Refinery - Laramie

May 17, 1984
K. Sewell

waste disposal area - 2

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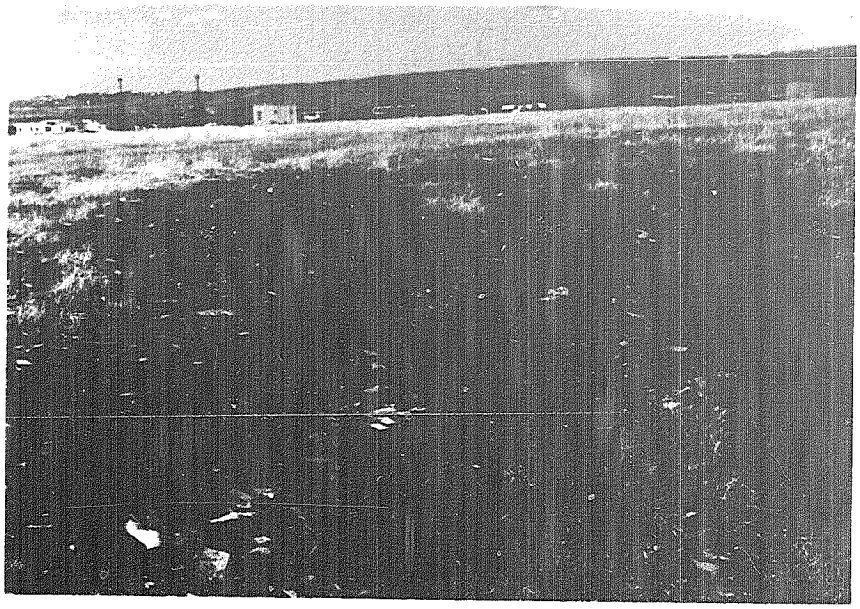
LARAMIE REFINERY
Laramie

May 17, 1984
K. Sedell

waste disposal area - 2



waste disposal trench - 2

waste disposal trench - 2

LARAMIE REFINERY - Laramie

May 17, 1984
K. Sewell

old API separator

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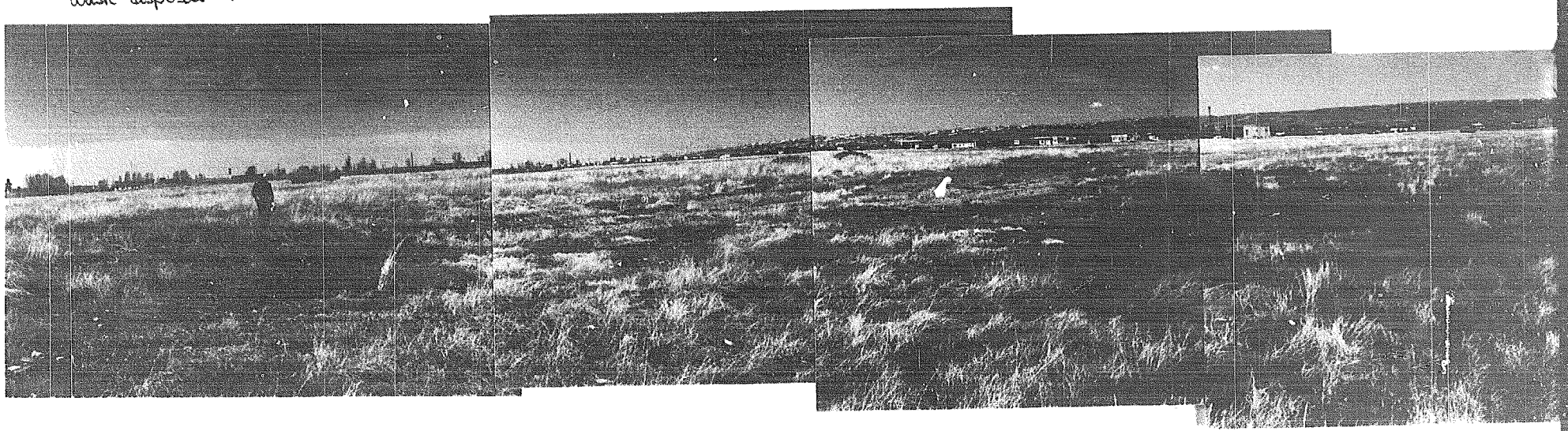
LARAMIE REFINERY - Laramie

may 17, 1984
K. Sewell

waste disposal area -2



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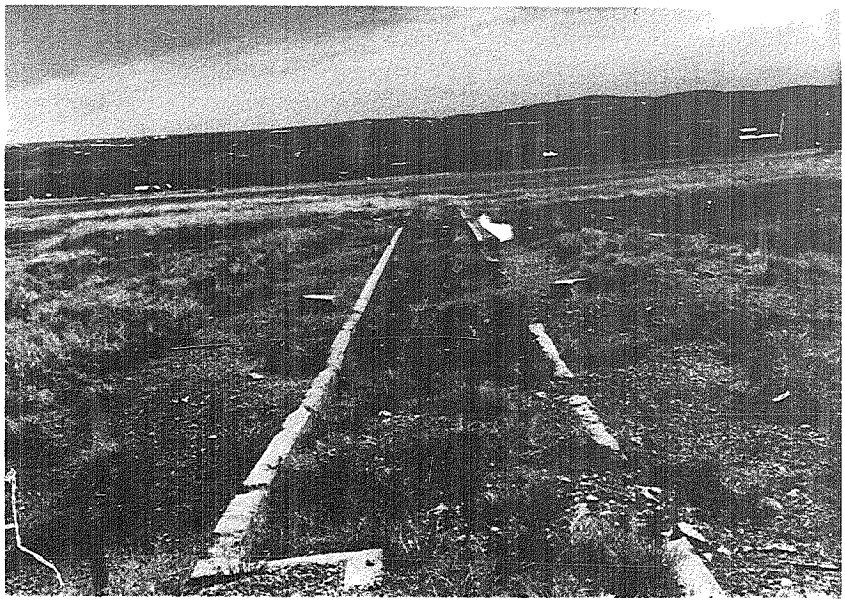
May 17, 1984
K. Sweet

Laramie

LARAMIE REFINERY - Laramie

may 17, 1984
K. Selbell



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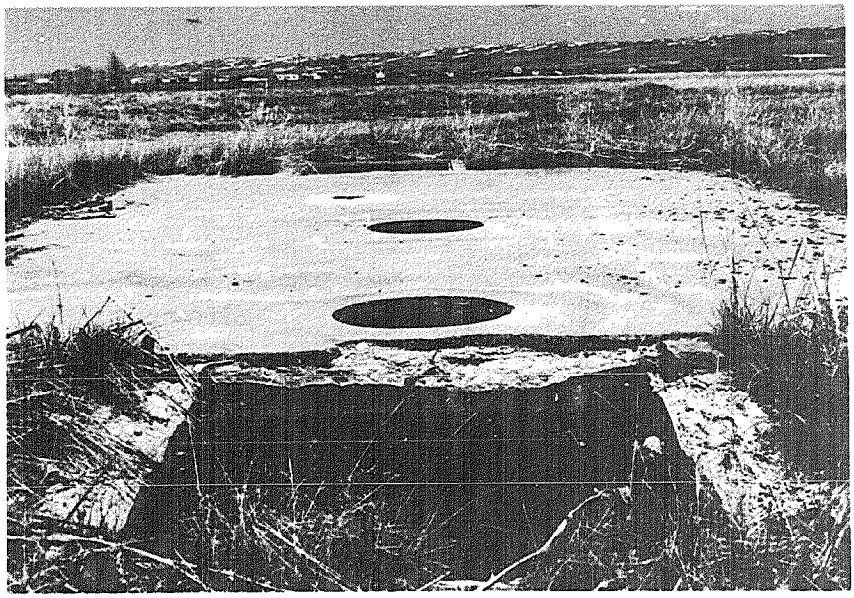

old septic tank

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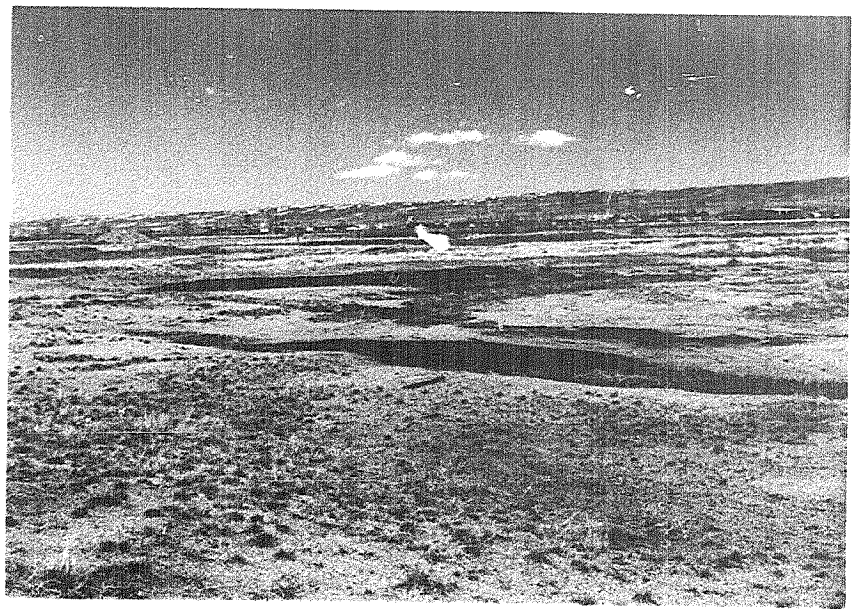
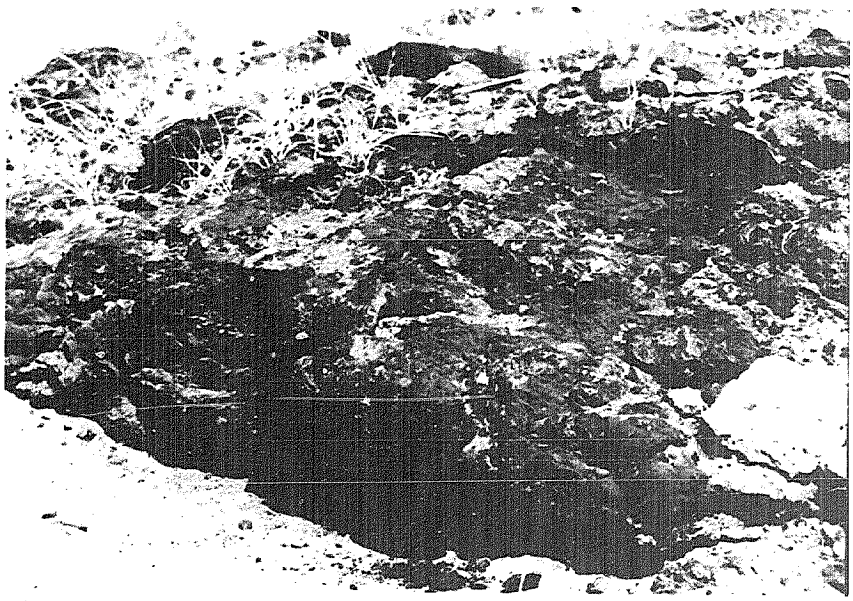
LARAMIE REFINERY - Laramie

May 17, 1984
K. Sewell



view of waste piles inside old tank fire wall

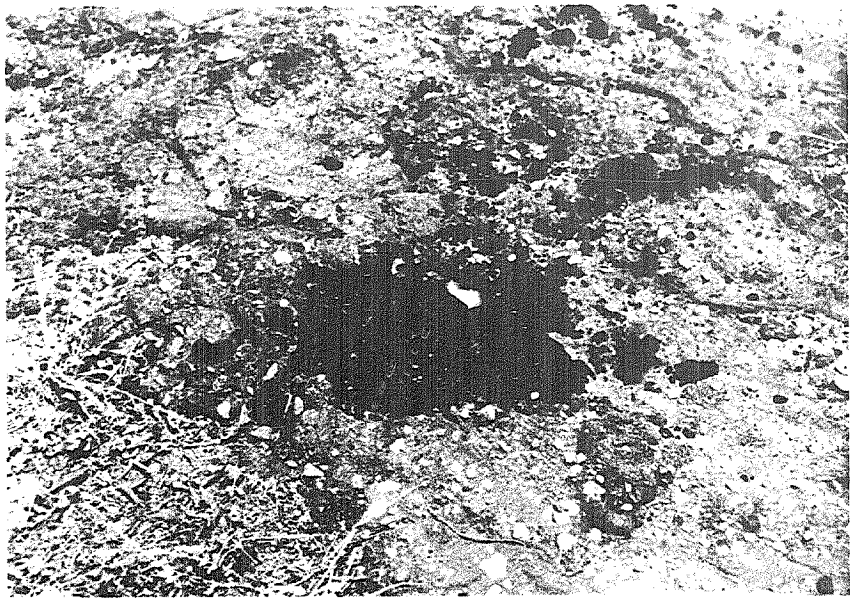


close-up of waste

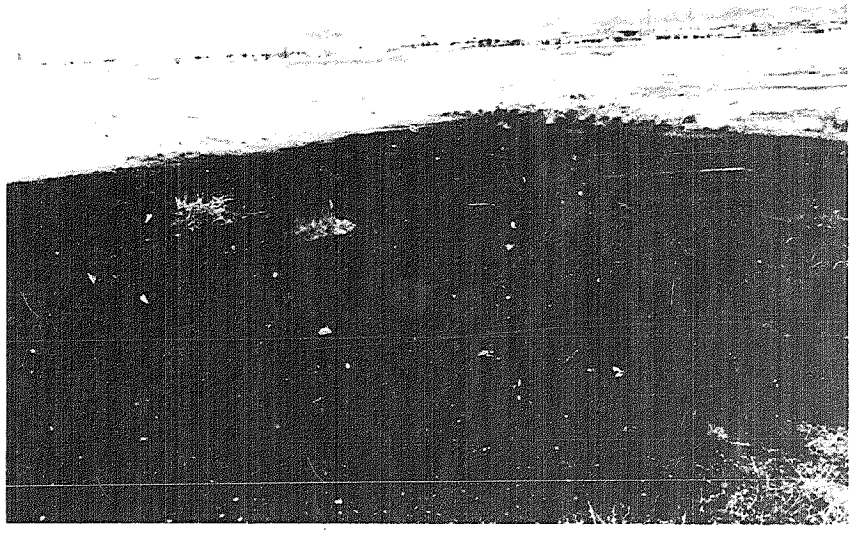
being filmed

LARAMIE REFINERY - Laramie

May 17, 1984
K. Sewell



close-up view of waste within old tank fire wall
note: - oily sheen was present



close-up of oily waste within old tank
fire wall

being filmed

LARAMIE REFINERY - Laramie

May 17, 1984
K. Sewell

view looking northeast of waste disposal area

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FINERY . Laramie

May 17, 1984
K. Sewell

st of waste disposal area

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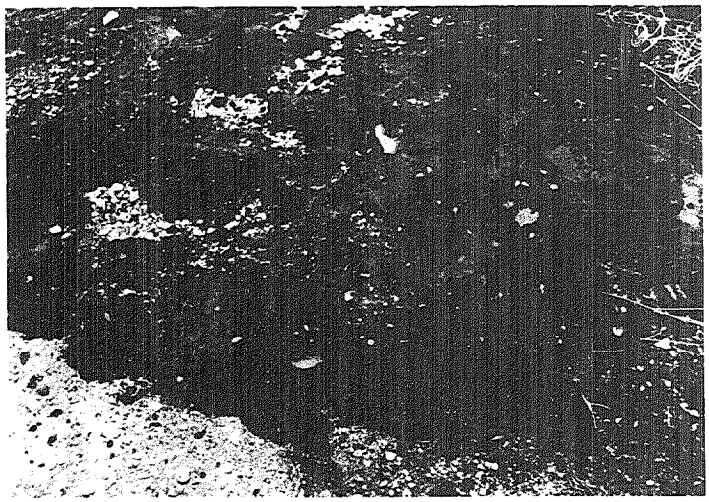
LARAMIE REFINERY - Laramie

may 17, 1984
K. Sewell



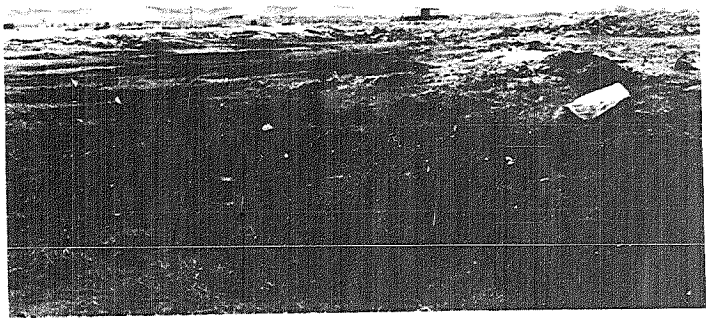
close-up of waste

close up of waste

LARAMIE REFINERY - Laramie

may 17, 1984
K. sdwell

view looking northwest of old building material disposal area



view looking east of waste disposal area

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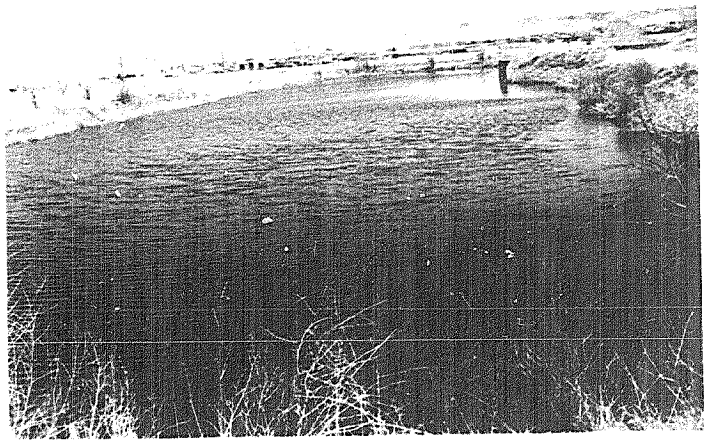
LARAMIE REFINERY - Laramie

May 17, 1984
K. Sewell

view of oily material along Laramie River bank



view looking east of sump -

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