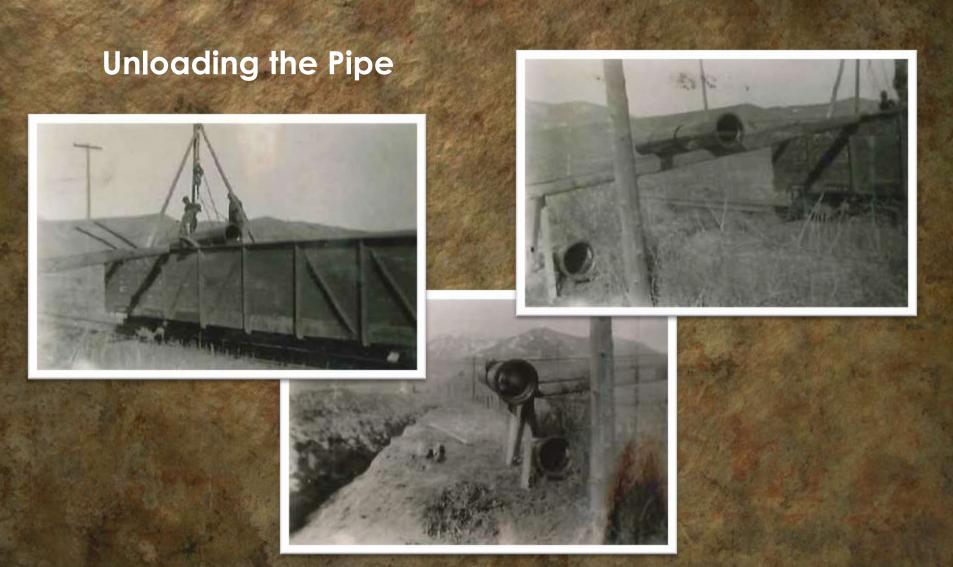
#### MSAWWA/MWEA & RMC-APWA Annual Conference

2011

A Look Back





**Digging the Trench** 





Caulking the Joints

#### Air Compressor



The Biggest Little Pump





The Evinrude Pump

City Manager FM Brown





City Engineer LS Thorpe

Water Boy Herbert Lay





Cast Bend 100 ft. N. of Valve House



Curve near E. Gal.

Photos Courtesy of The City of Bozeman



Shaft on Tunnel Under N.P.
Tracks



The Valves



Re-Laying Cast Iron Pipe that gave 36 years service on the original supply main.



Bert Lay
Pouring a Lead Joint



A Piece of the Old Wood Main

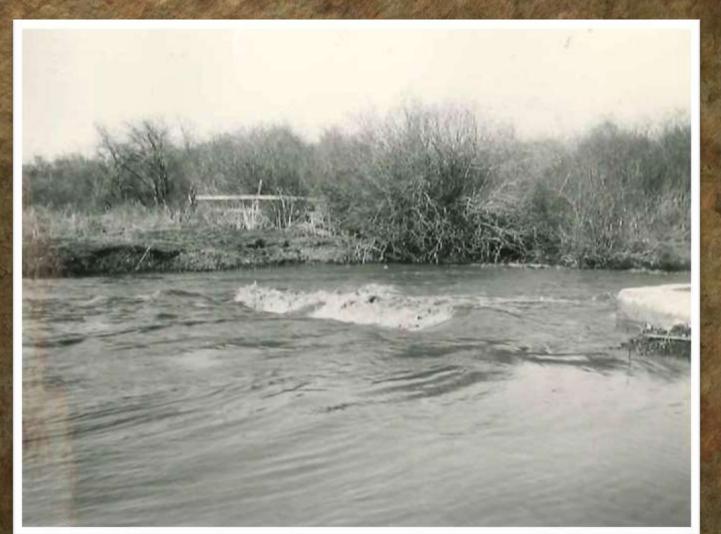


April 25, 1928



Pipe Piled Near Mill

Roads Too Muddy for Hauling



High Water on East Gallatin River



April 26, 1928 The First Bucketful



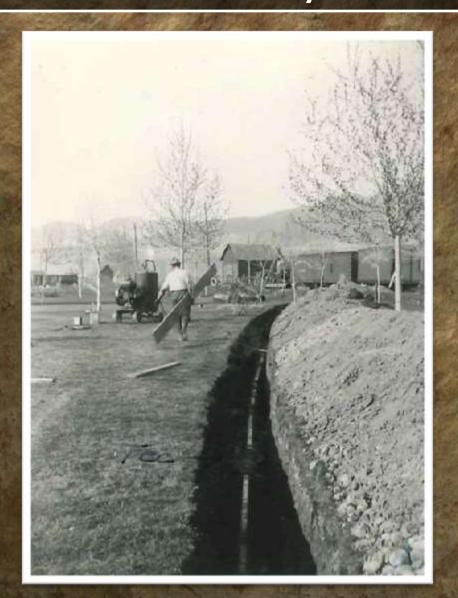
New 18"
Cast Iron
Pipe Being
Installed
Under Old
16" Wood



Kink in Line at Crossing of Old Wood Main



Old Wood Main



Through Al Grantham's Lawn



Crossing RR
Tracks
North of Mill



Some More Railroad Crossings

Photos Courtesy of The City of Bozeman



Crossing
Under Old
Kalemein
Main
10" - 1889



A Straight Line

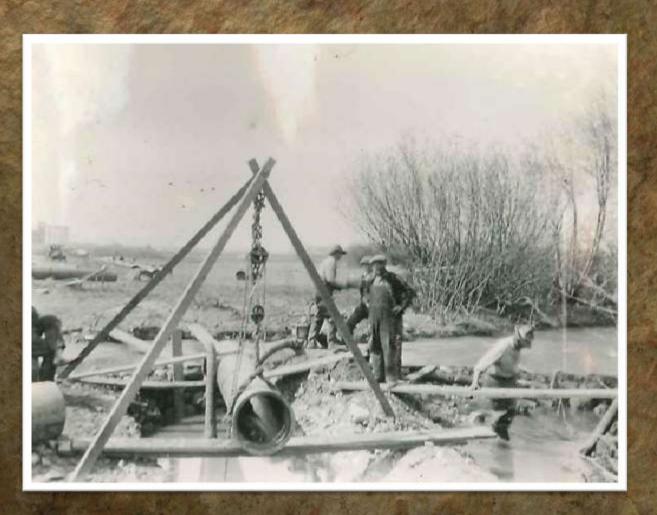


Rasmussen & Brown



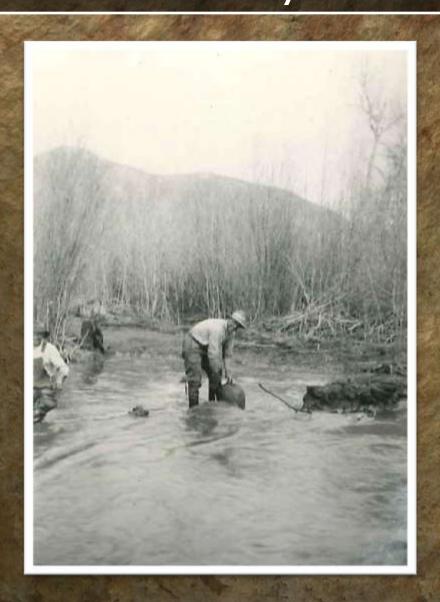
Bridger Creek Crossing

Photos Courtesy of The City of Bozeman



Bridger Creek

Too Much Water



Tearing out Sack Dams at Bridger Creek



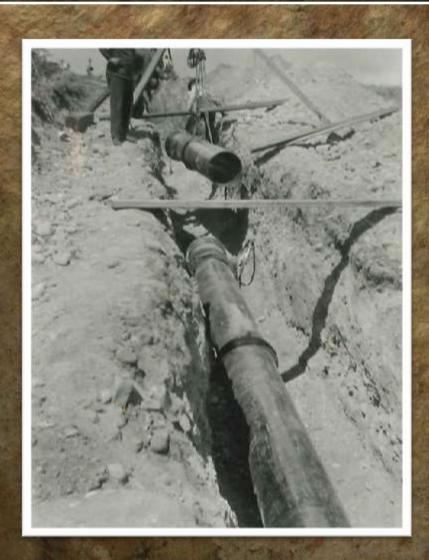
Starting the Steep Climb



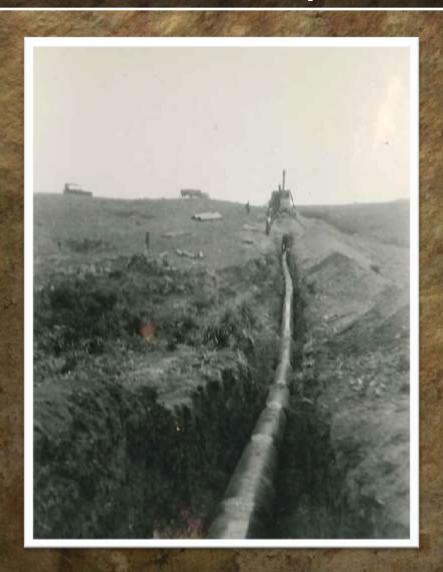
Half Way Up Grade = 25%



At the Top



Laying Pipe Up
the Hill



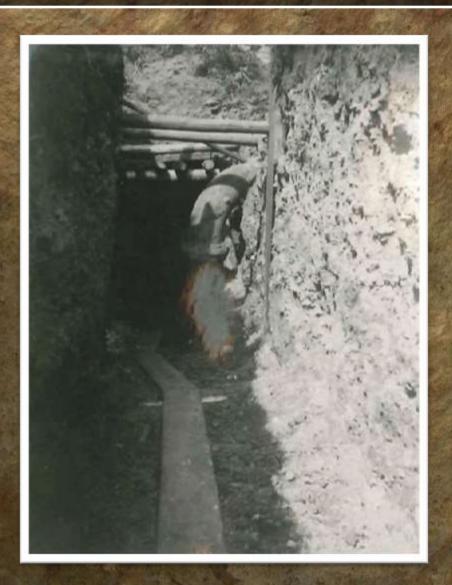




The Junction just below Reservoir



The East Branch 16"



The Tunnel's Mouth
Under the Dam



Looking Toward
Bozeman from
Reservoir



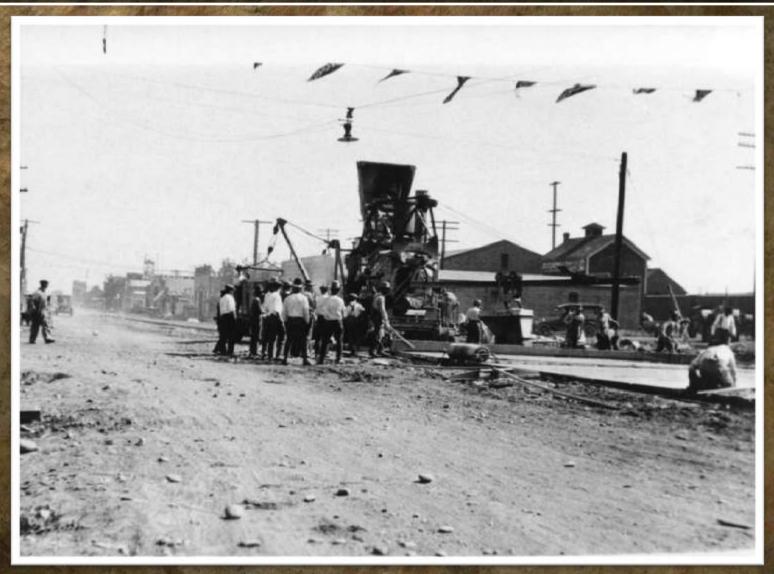
Photos Courtesy of The City of Bozeman

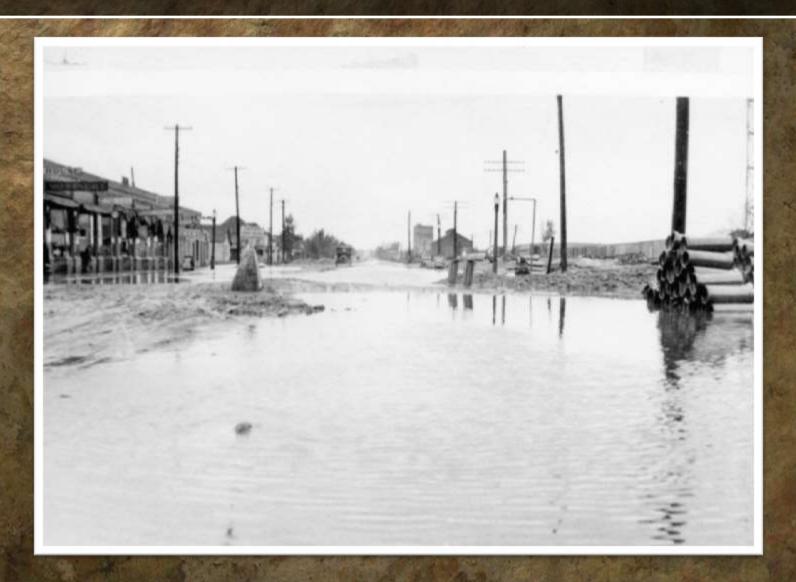


Lyman Creek Reservoir



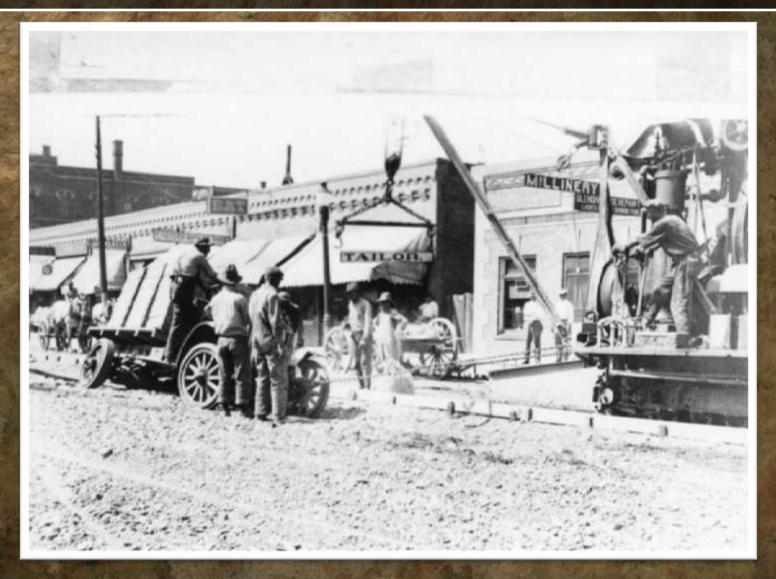




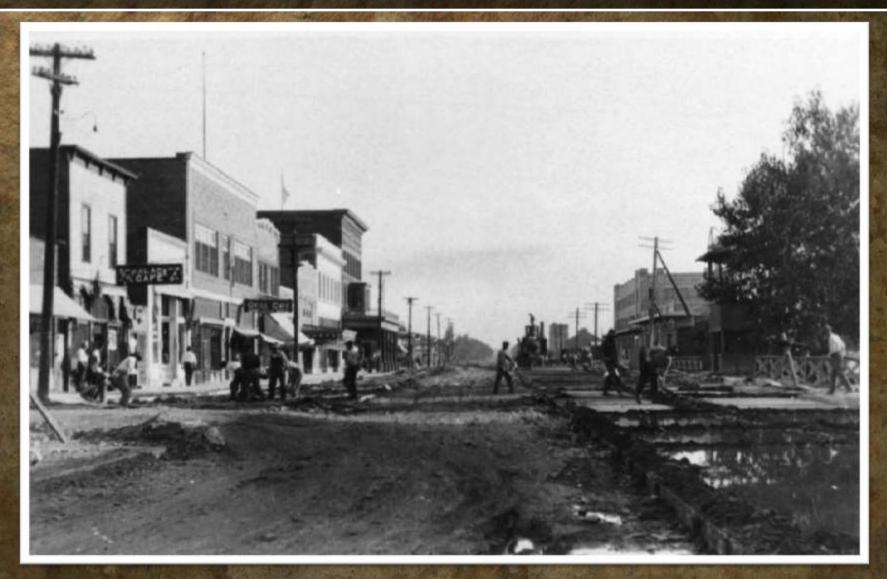




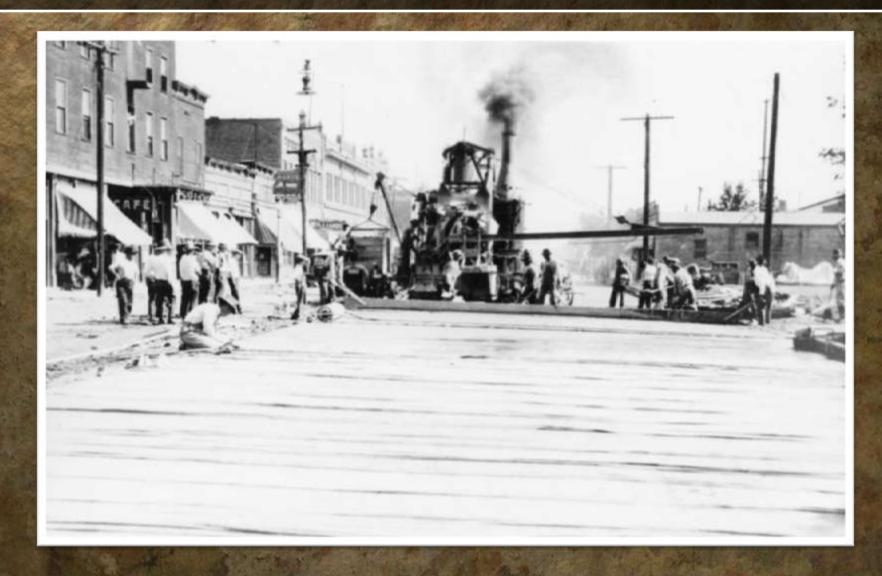


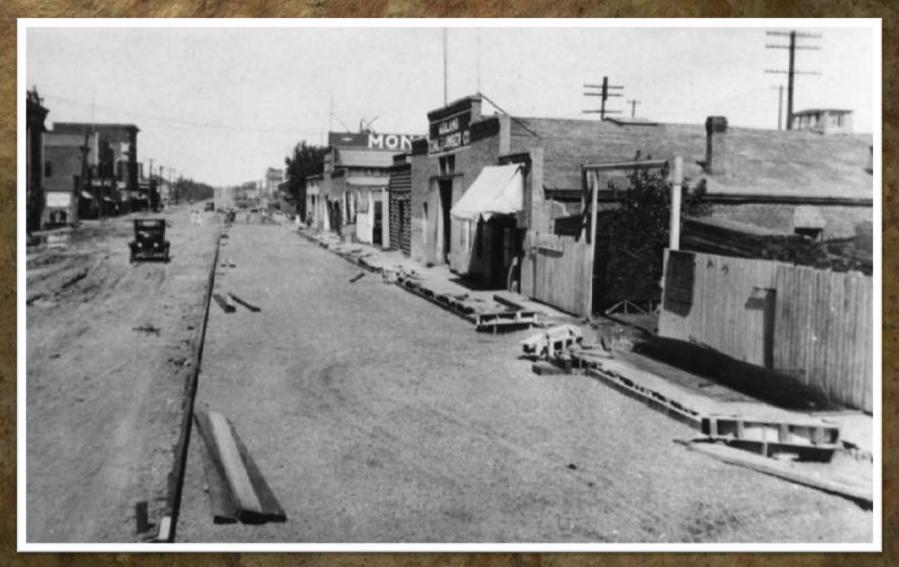






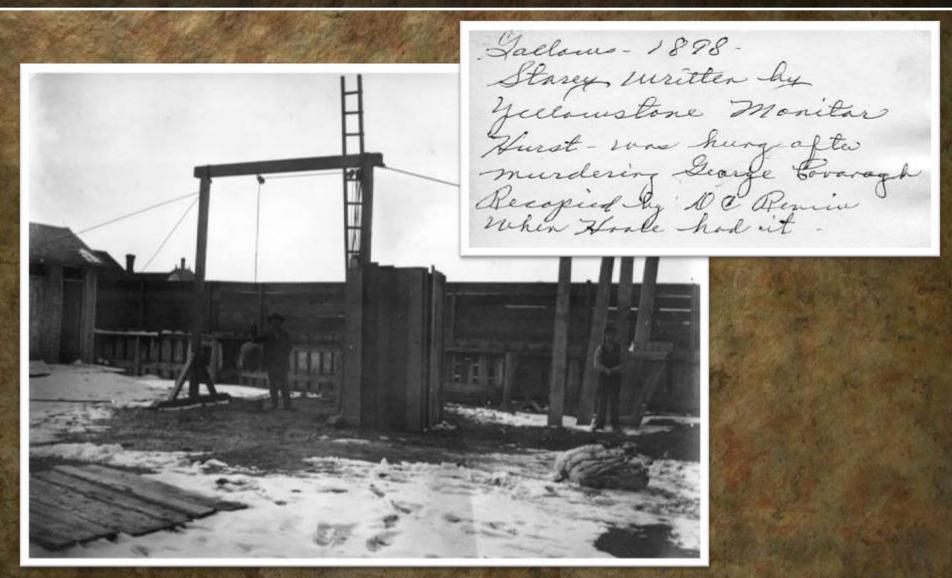


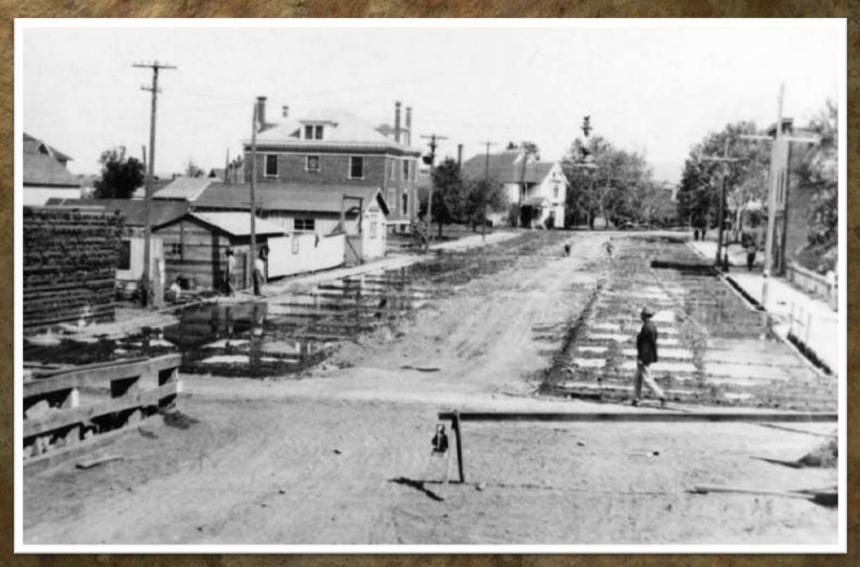














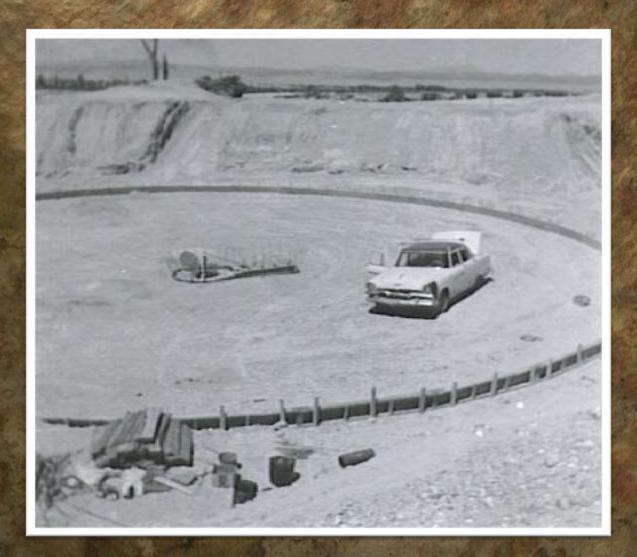


Helena Primary Treatment Plant circa 1960

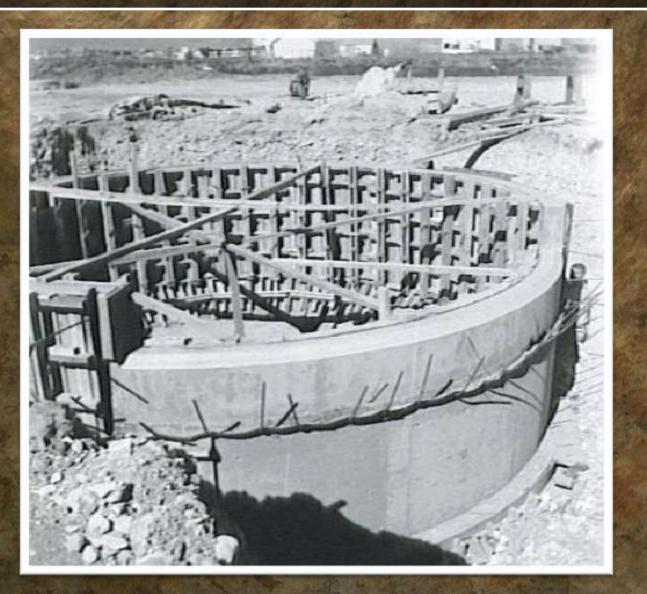


Forming Primary Clarifier





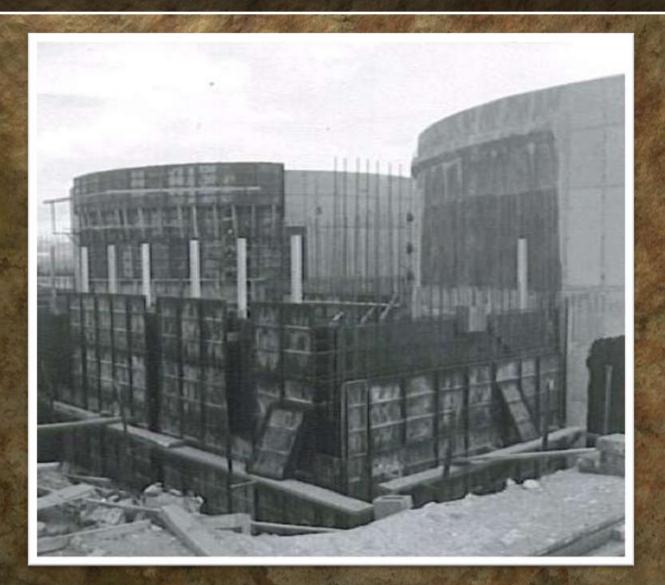
Jim Melstad's Car Early One Saturday Morning After A Bender.



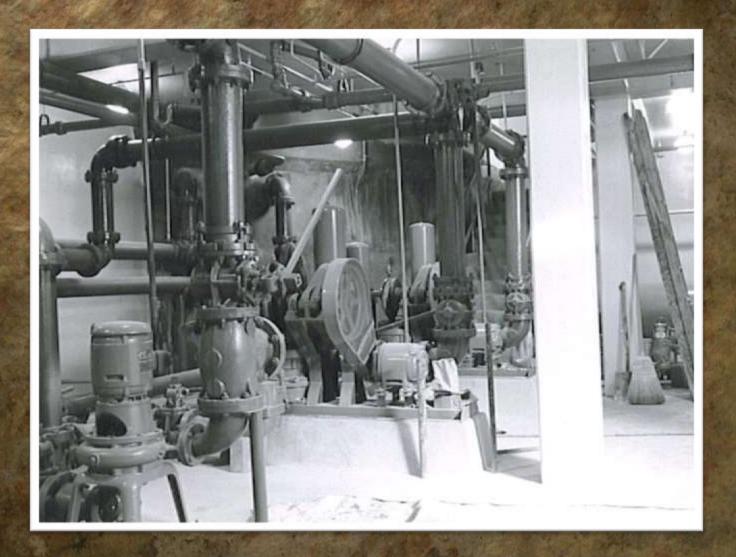
Grit Chamber ca 1960



Early Construction, ca 1960

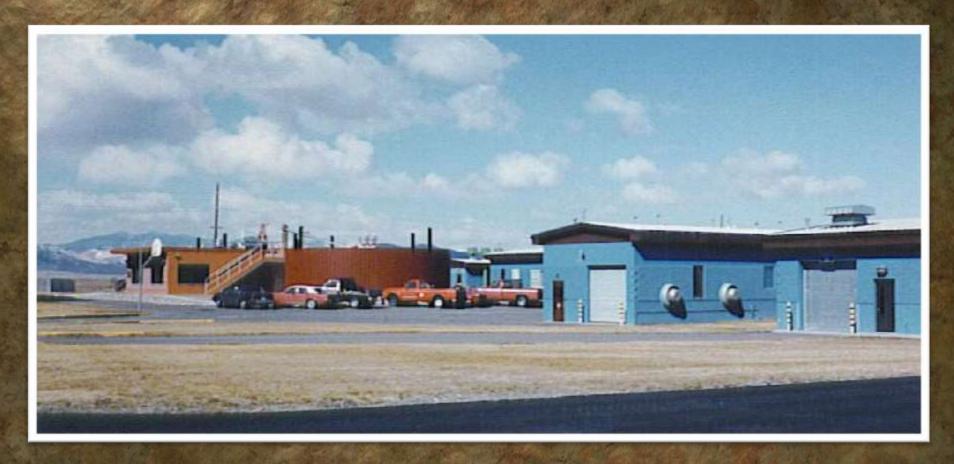


Pouring
Digester Walls
ca 1960s





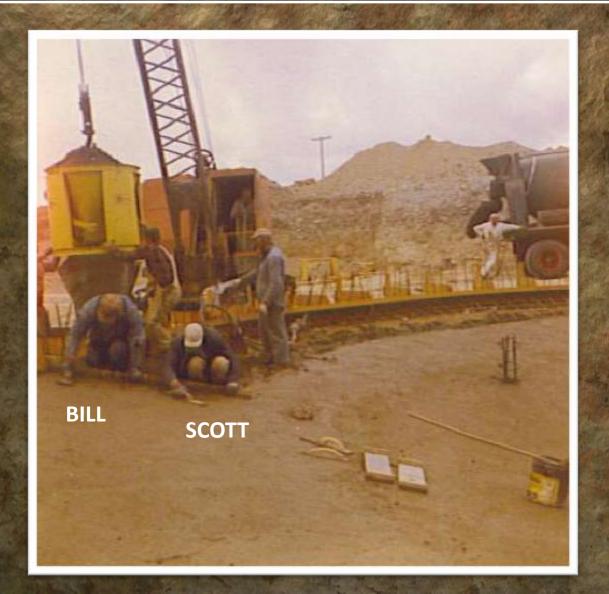
Grit Chamber and Primary Clarifier - ca 1960s



Helena Secondary Treatment Plant - ca 1980

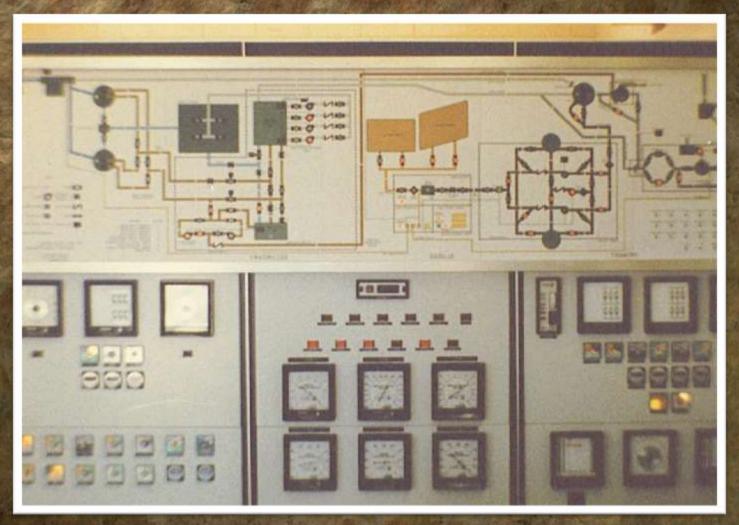


Pouring Secondary Clarifier Floor- ca 1980



Scott Anderson and Bill Bahr – The Early Years

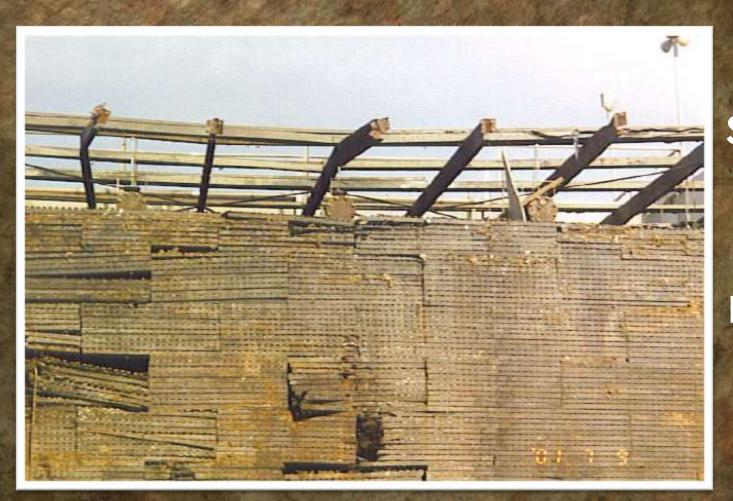
Photos Courtesy of The City of Helena



**Old Control Panel** 



Helena
Secondary
Treatment
Plant
Ca 1980



Secondary Treatment ABF Tower During Demolition in 2000

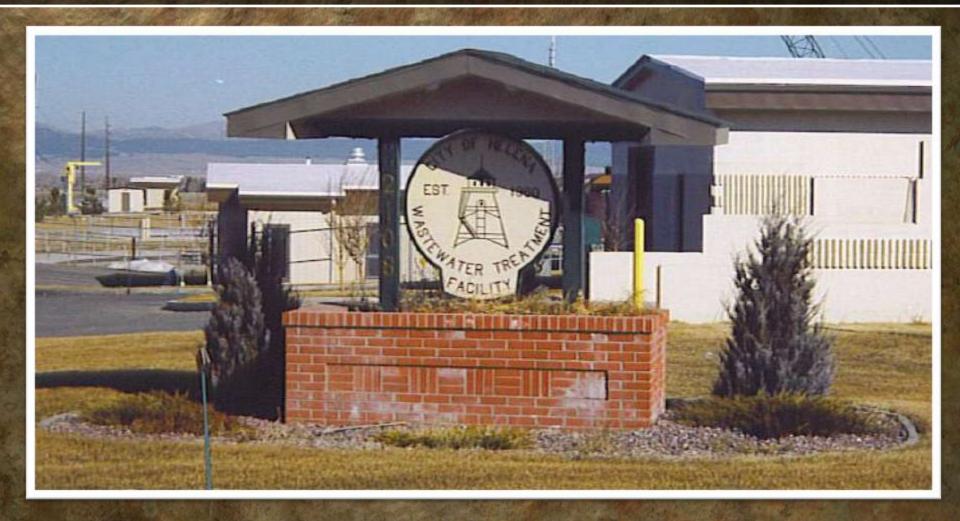


Demolition of ABF Tower, 2000

Photos Courtesy of The City of Helena



Old Entrance Sign

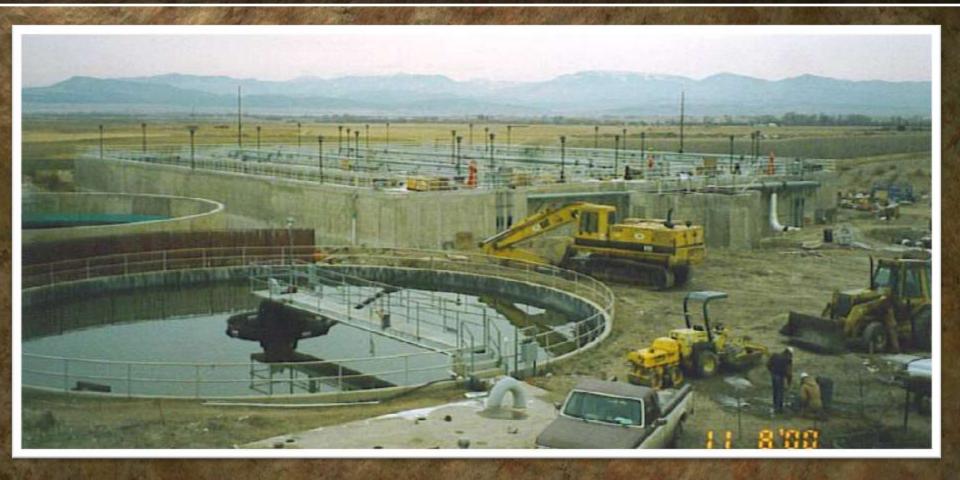


New Entrance Sign





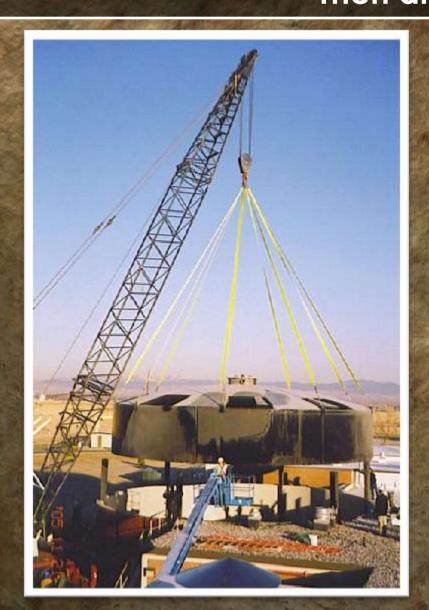
Installing Second Belt Filter Press, 2000



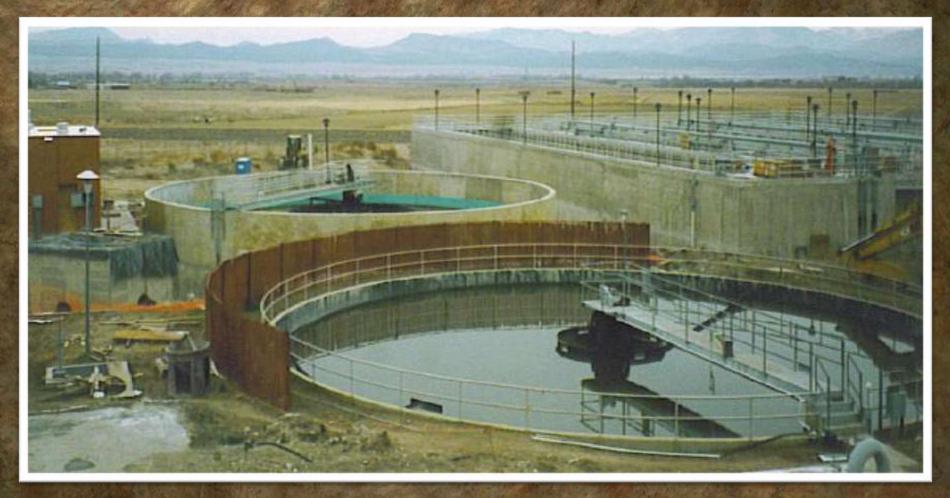
Construction of New Secondary Reactor & Other Upgrades, 2000



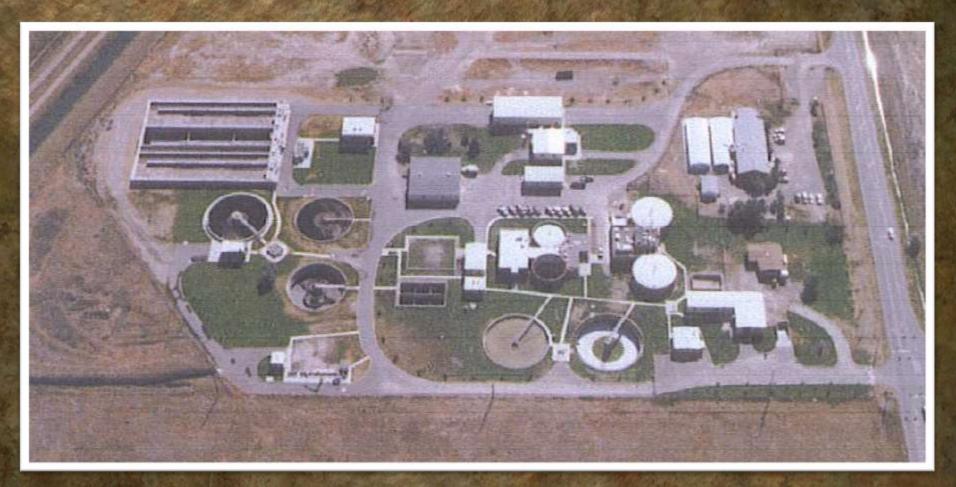
**Digester Floating Cover Removed** 



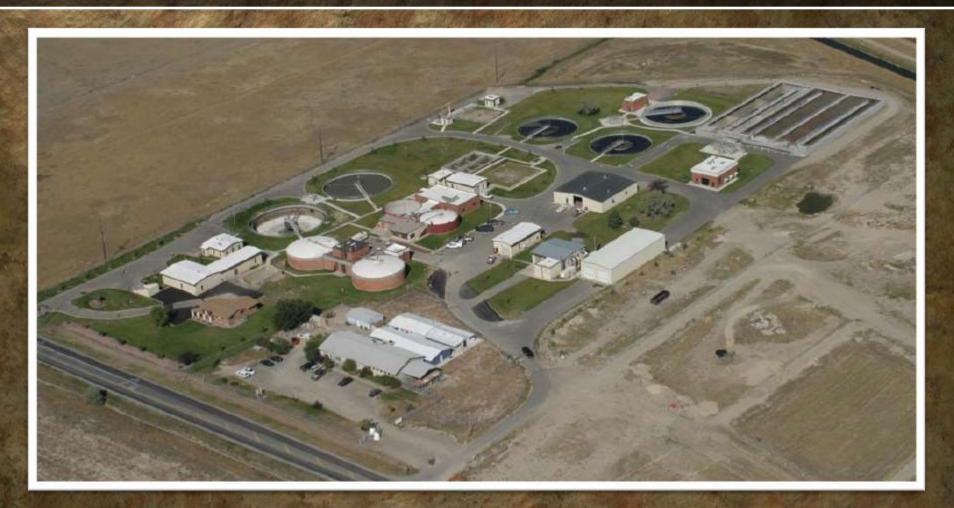
Installing New Secondary Digester Cover



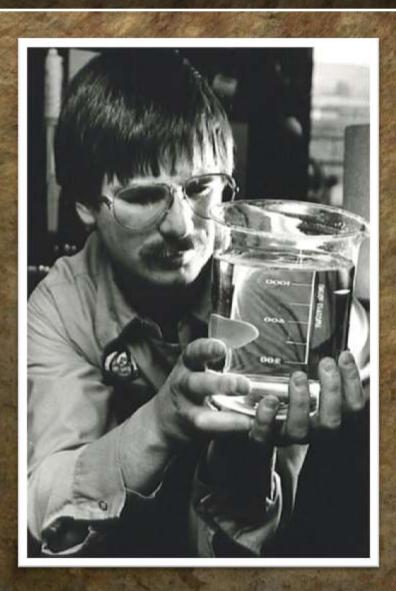
Upgrade 2000



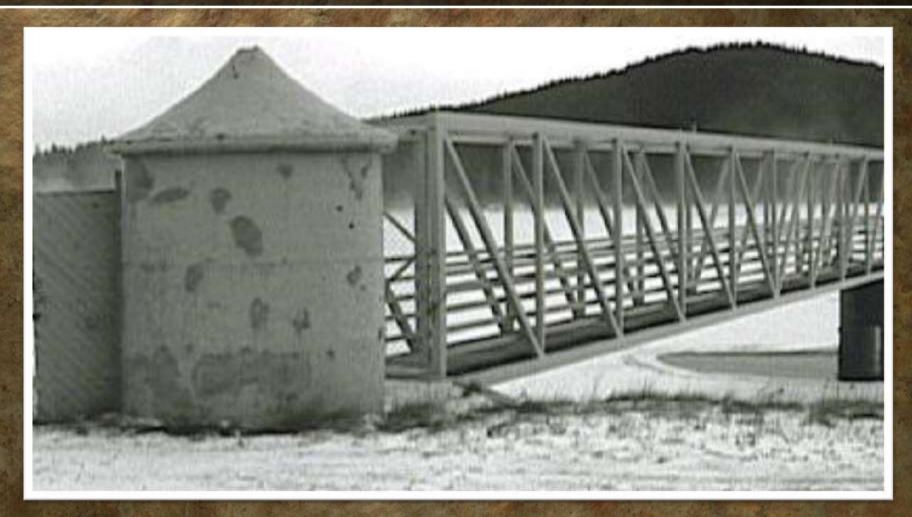
Helena Wastewater Treatment Facility Today



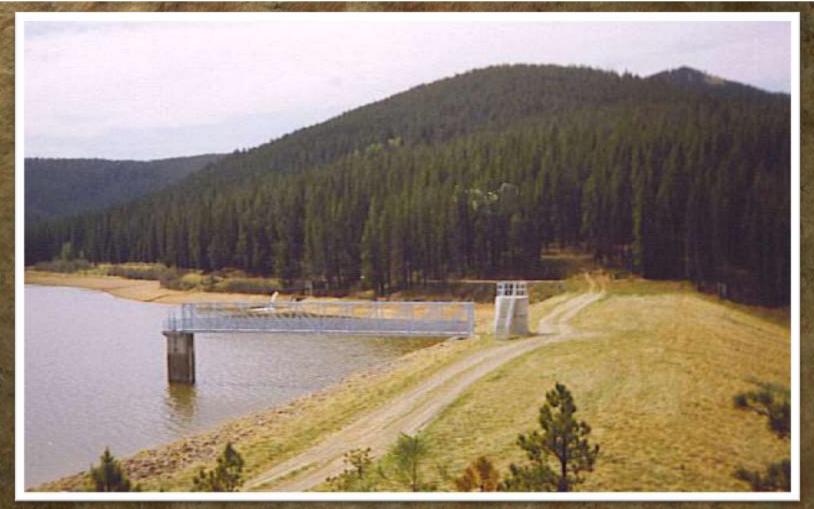
Helena Wastewater Treatment Facility 2006



Leonard Willet as a Young Boy



Chessman Wheelhouse ca 1980s



Chessman Wheelhouse 2002

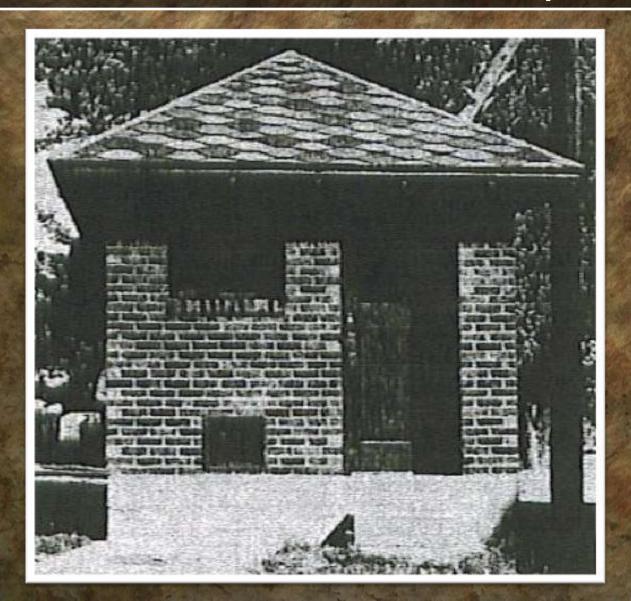
#### BED ROCK SYSTEM.

This consists of underground sources located at the Southwesterly limits of the City. The water is obtained by diversion from the re-fills channel of a stream that had once been mined for placer gold.

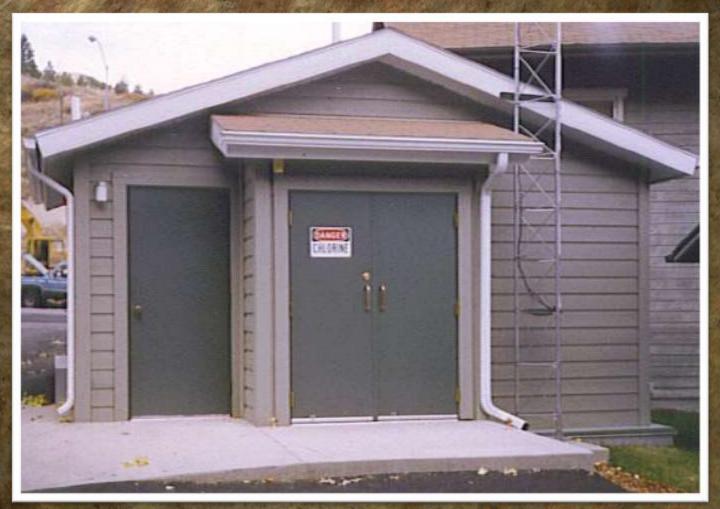
The conduit from this source ends in a concrete sump, is then chlorinated, and then discharged from the sump either as waste or enters the Eureka shaft to be pumped and supplement if need be, the Ten Mile or Hale system by reason of heavy draft. The supply from this source is insignificant compared with the total water used, and only at certain times can be used.



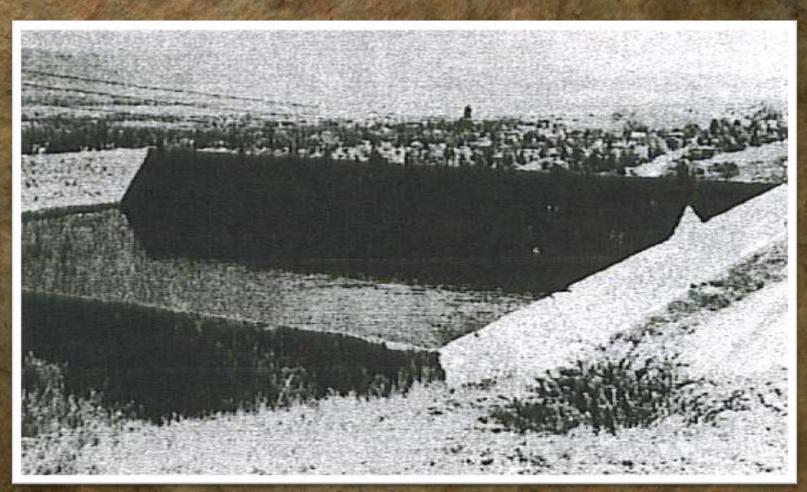
BED ROCK CHLORINE HOUSE



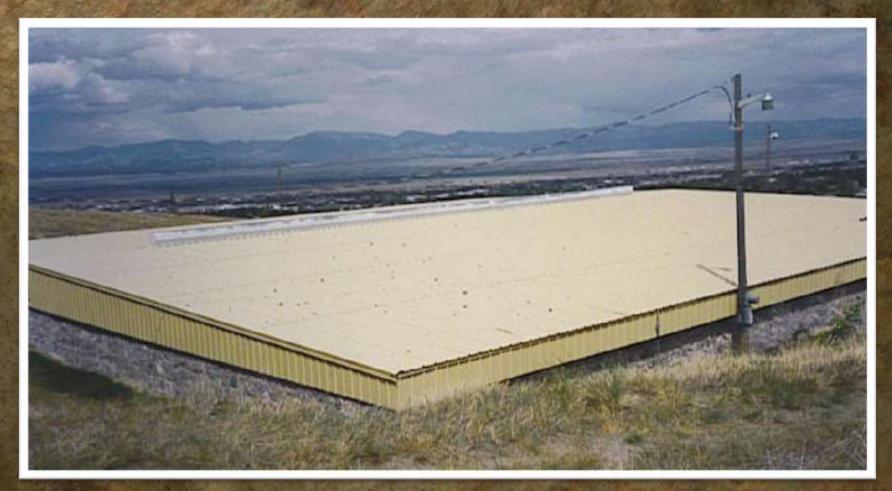
Eureka Wellhouse 1960



**Eureka Wellhouse 2006** 



Hale Reservoir 1960



Hale Reservoir 2000



**Knob Hill Reservoir Prep Work 2002** 



**Knob Hill Reservoir Floor Pour 2002** 

**A Historical Perspective** 



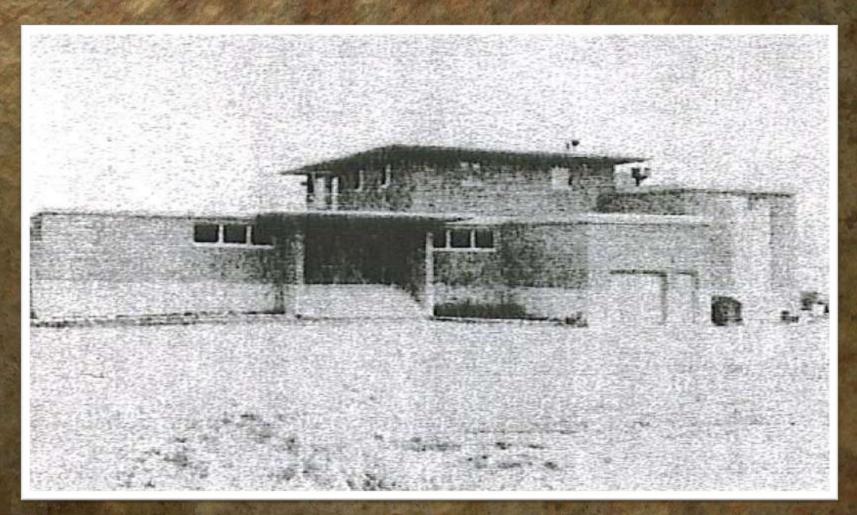
**Knob Hill Reservoir Wall Pours 2002** 

**A Historical Perspective** 



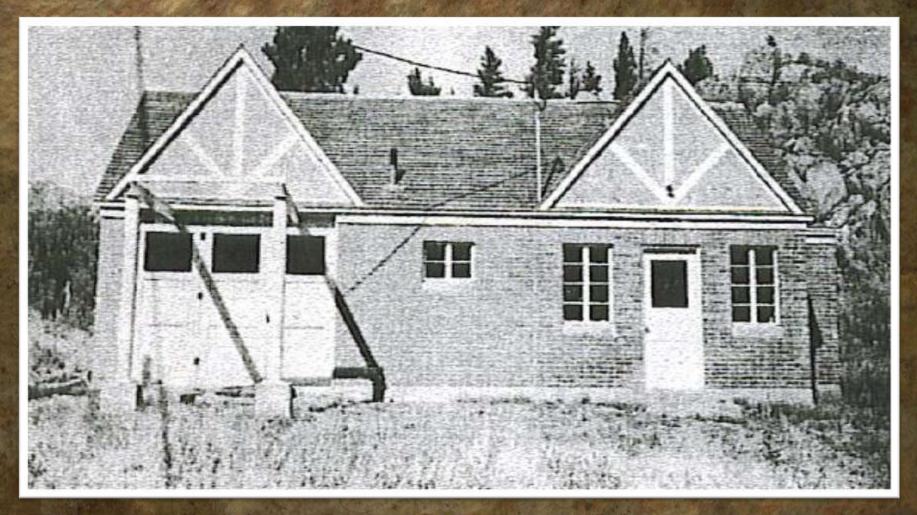
**Knob Hill Reservoir Complete 2002** 

**A Historical Perspective** 



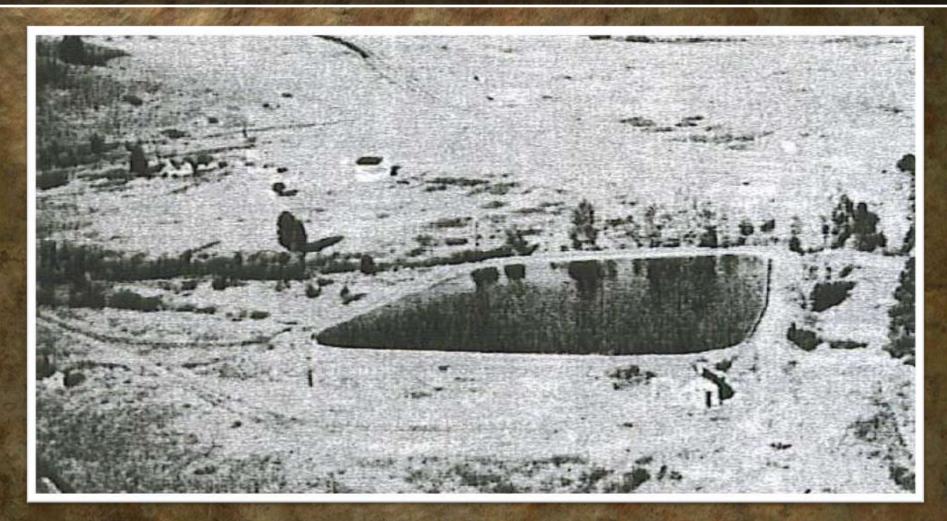
Missouri River WTP 1960

**A Historical Perspective** 



Ten Mile WTP 1960

**A Historical Perspective** 



Ten Mile Reservoir and Settling Basin 1960



Ten Mile WTP 1993

#### WOOLSTON WELL AND PUMP

This plant is situated 2 miles North of the City, in the alluvial cone of Ten Mile Creek. It consists of a dug well 38 feet in diameter, about 26 feet deep. Its source of supply is percolation from the waters of Ten Mile Creek. The water from this well is pumped into the Ten Mile system through a deep well turbine. The well is not used constantly, but only to supplement the Ten Mile supply at times of high consumption.



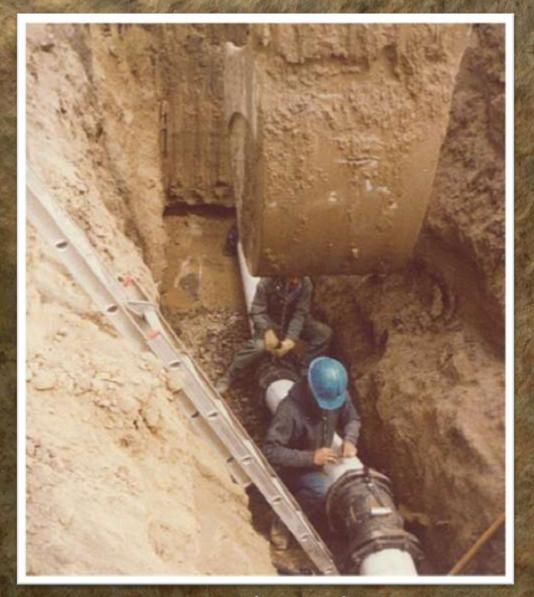
WOOLSTON WELL AND PUMP

#### Woolston Reservoir and Pumphouse 1960

**A Historical Perspective** 



Woolston Tanks 1 and 2 2000



Installing Pipe (60s or 70s)



Testing Well at Columbia Falls

Photos Courtesy of Morrison Maierle, Inc.



Pipe in Columbia Falls



Water Testing at Livingston Permanent Well



Water Testing at Livingston Permanent Well

Photos Courtesy of Morrison Maierle, Inc.



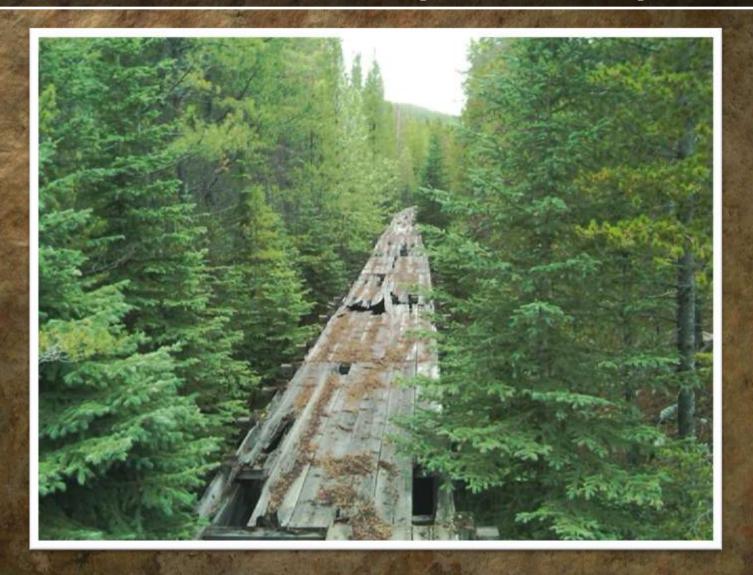
Twin Bridges Orphans Home Well

#### Sections of Wood Stave Water Main Near Anaconda, MT



These were originally installed circa 1915 as mining water use with some municipal water use, as well. They were later converted to all municipal use and are still in use today.

# Wood Flume System Near Silver Lake, MT (circa 1957-58)



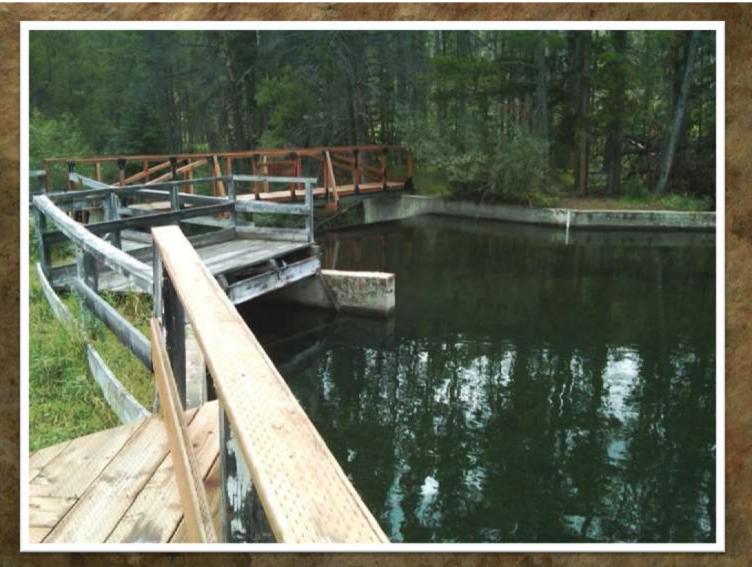
## Wood Flume System Near Silver Lake, MT (circa 1957-58)



These were originally installed circa 1915 as mining water use with some municipal water use, as well. They are currently out of service for repairs.

### **Wood Flume System**

Near Silver Lake, MT (circa 1957-58)



The flume system is still used fairly regularly, as can be seen by to upgraded walkways at the diversion.

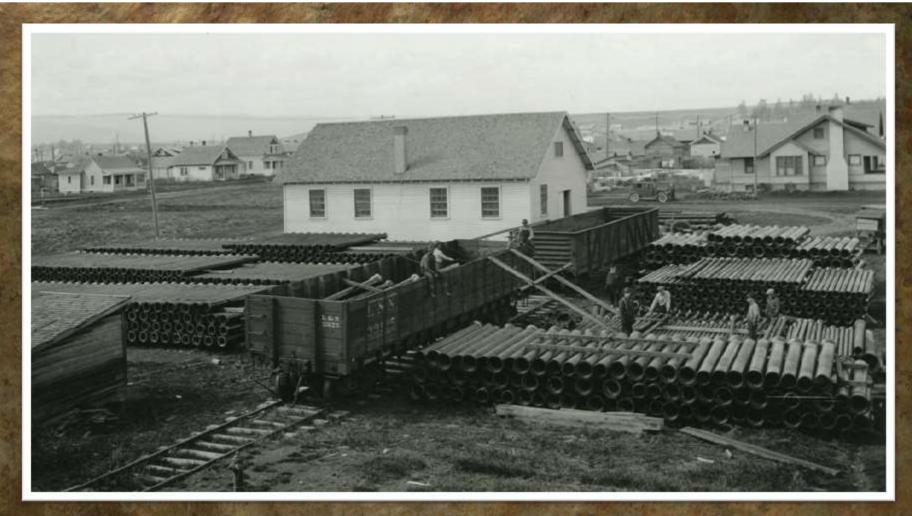
# Wood Flume System Near Silver Lake, MT (circa 1957-58)



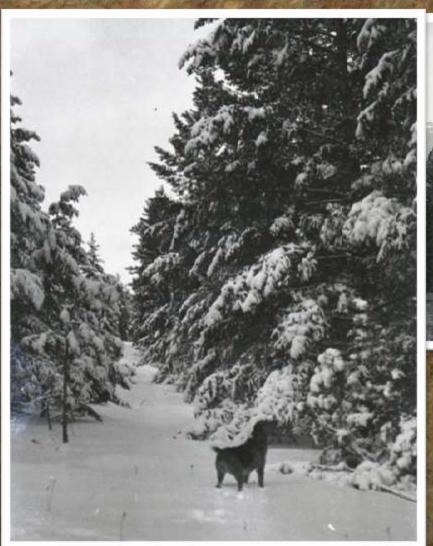
### City of Kalispell



4<sup>th</sup> Avenue Water Main 1925



1925 McGubbins old House in Background





Alvin Lang Negatives from Reservoir Area

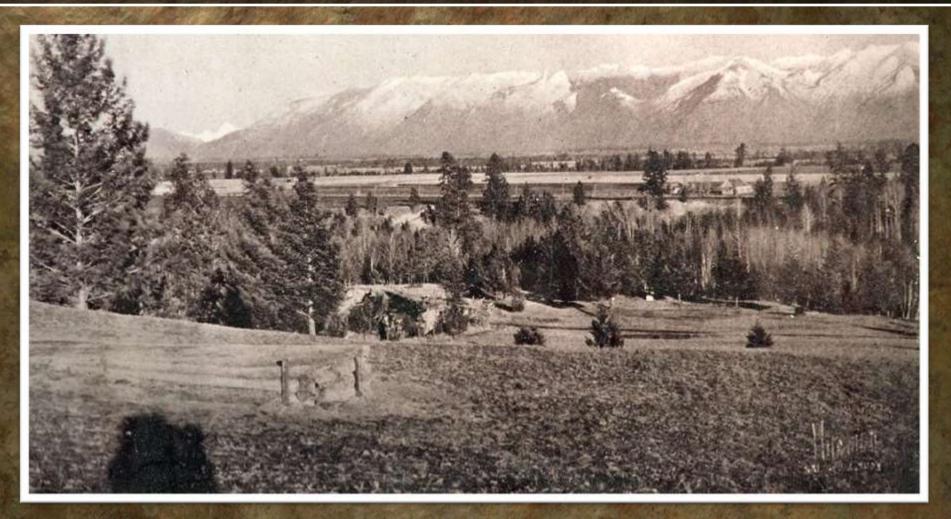
### City of Kalispell Boiler Licenses

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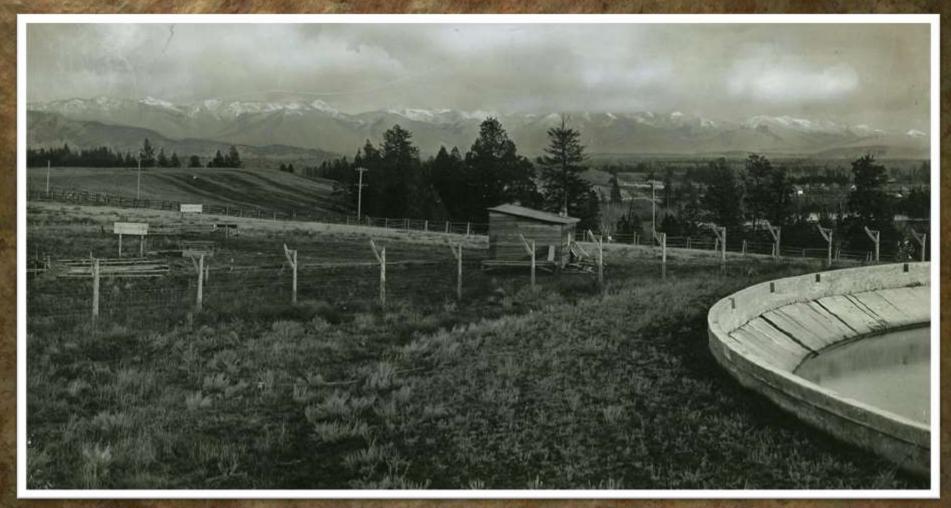
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been found to be in a condition reasonably safe for the employees working therein.  The payment of the fee of inspection to the Industrial Accident Board for the sum of \$	18	
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BOILER OPERATING CERTIFICATE  THIS IS TO CERTIFY. THAT I,  John Gentry  NATIONAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  SOLER SITUATED AT PURIFIES TO CERTIFY. THAT I,  MATIONAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HAVE THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HOW THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HOW THIS DAY COMPLETED THE INSPECTION OF THE FT  INSURED BY HATTONIAL BOARD NO. 7235. HOW THIS DAY COMPLETED THE INSPECTION OF KALISPELL  HADDED THIS SAME BASE TO CARRY 15. POUNDS FOR SQUARE INCH.  DATED THIS SELD. DAY OF AUGUSTS.		te, unless sooner revoked, is to remain in full force and effect until date of next inspection.
BOILER OPERATING CERTIFICATE  THIS IS TO CERTIFY. THAT I. John Gentry  NATIONAL BOARD NO. 1235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  BUILER SITUATED AY PURPLE STATION AND FIND THIS STATIONAL BOARD NO. 1235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THIS IS TO CERTIFY. THAT I. JOHN GENTRY  NATIONAL BOARD NO. 1235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE SITUATED AY PURPLE STATION INSPECTION OF THE I	Dated at Hele	ens, Montana, this. 18th day of September , 1949.
BOILER OPERATING CERTIFICATE  THIS IS TO CERTIFY. THAT I. John Gentry  NATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  BOILER STUDIES STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AT PURPOSE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AT PURPOSE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AT PURPOSE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THESE STUDIES AND STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE  THE STATIONAL BOARD NO. 7235 HAVE THE INSPECTION OF THE  THE STATIONAL BOARD NO. 72		Section 2019. Each place of employment traspected to provided its Section 2017 and found in a satisfactory
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BOILER OPERATING CERTIFICATE  THIS IS TO CERTIFY. THAT I. John Gentry  NATIONAL BOARD NO. 7235 MAVE THIS DAY COMPLETED THE INSPECTION OF THE FT.  THERE,  SOILER BITUATED AT PUMPING STATION—LEWTENCE PARK—BRIT FLOOT Kalispell MONTAN (MANURED BY HATTFORD INS. CO. OWNED BY City of Kalispell  AND FIND THE SAME NAFE TO CARRY 15 MOUNTS PEN SQUARE INCH.  DATED THIS 6th DAY OF AUGUST 19.76	THE REAL PROPERTY.	
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DATED THIS 6th DAY OF August 19.76		THIS IS TO CERTIFY, THAT I. John Gentry  NATIONAL BOARD NO. 7235 HAVE THIS DAY COMPLETED THE INSPECTION OF THE PT  (TOPE)  BOILER BITUATED AT PURPING Station-Lawrence Park-main floor Kalispell MONTAL (LOCATION)
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# City of Kalispell Boiler Licenses

BOILE THIS IS TO CENTIFY.	BOILER OPERATING CERT THIS IS TO CERTIFY, THAT I. DAVID M. AUSTI HATIONAL GOADS NO. 8637 HAVE THIS BAY COMPLETED THE ORDER HOLER SITUATED AT. PUMPING SEASION AL LAWRENCE PARK. HABURED BY HALLFOrd Steam Boiler CLOCATUM! HABURED BY HALLFORD SAFE TO CARRY 13_POUNDS PER SOURCE BY	Must be Posted in Plant  IFICATE  IN  ETION OF THE FT  INVEST.  Kalispell MONTANA.  Gity of Kalispell	THE ID TO CENTIFY, THAT SLAVED CO.  THE ID TO CENTIFY, THAT SLAVED CO.  THE WILLIAM OF THIS LICENSE IS NOT ANY AND STRAM MACHINERY  DOLLARS AND STRAM MACHINERY  THE MILLIAM OF THIS LICENSE IS NOW ANY ANYTHING THE ANGE THE MACHINERY UNTIL IS NOW CLASSIFY CATTON AND US THE SHARE OF MINISTER THE ANGE THE SHARE OF THE S
messen or	Soller owner or City of Saltspell	TRICHT HERBERT, S. JR.  AND THE DAY COMMENT OF WARREST THE PRINCE SPEEL  IS MANUAL MAN	THIS IS TO CERTIFY, THAT RODALD JORDSON HAS BEEN EXAMINED AND FOUND TO BE QUALIFIED TO HOLD A LICENSE FOR A LOW Pressure Boiler BEGINNING 1-22-88 AND EXPIRING ON 1-22-89  THE HOLDER OF THIS LICENSE IS ONLY ENTITLED TO OPERATE THE MACHINERY OR THE MATERIALS LISTED IN THE CLASSIFICATION INDICATED ABOVE IN THE STATE OF MONTANA AND IS HEREBY LICENSED TO ACT AS SUCH FOR THE PERIOD INDICATED ABOVE UNLESS THIS LICENSE SHALL BE REVOKED OR RESOUNDED.  SEE REVERSE SIDE FOR IMPORTANT INFORMATION.  WHEN REWITTING FOR A RENEWAL, MAKE PAYMENT TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF THE DRODER OF THE DIVISION OF WORKERS COMPRISED TO THE DRODER OF TH



**Buffalo Hill Golf Course First Hole** 



Looking South and East from Reservoir Section of Flathead Valley



Looking North and East through Bad Rock Canyon. Mt. Jackson, Elevation 10,500' set in Glacier National Park in Distance

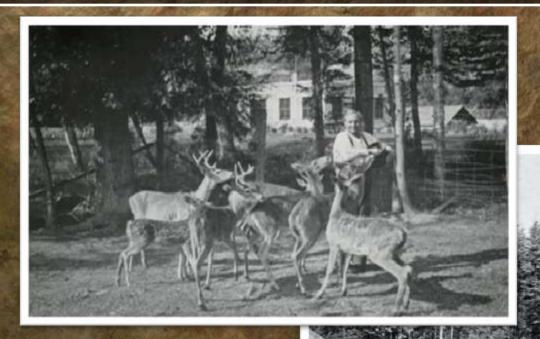
# City of Kalispell Wye Drainage



#### City of Kalispell Wye Drainage







Main Entrance
Adjacent to
Pump Station

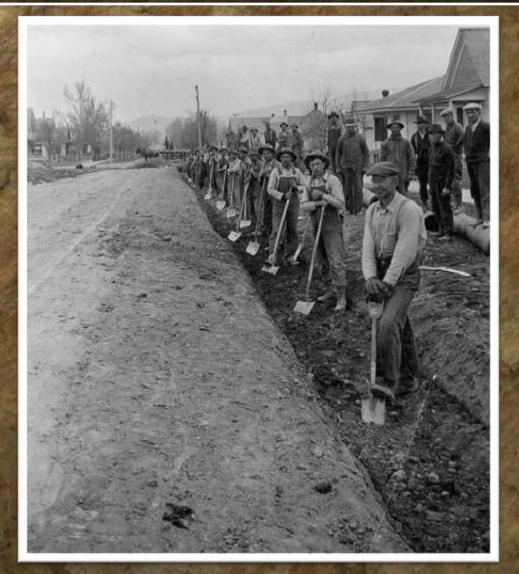




Photos Courtesy of the City of Kalispell



Photos Courtesy of the City of Kalispell



# City of Kalispell New Airport

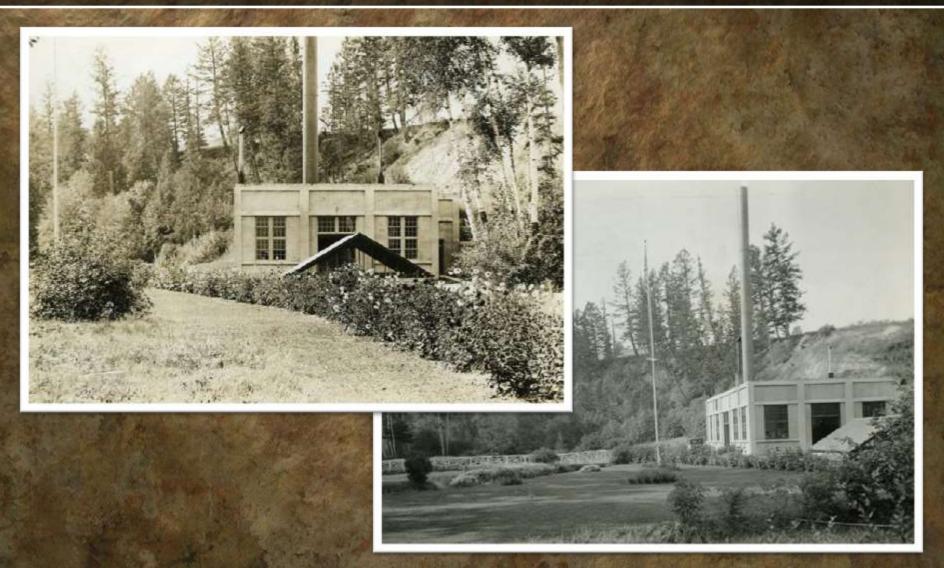




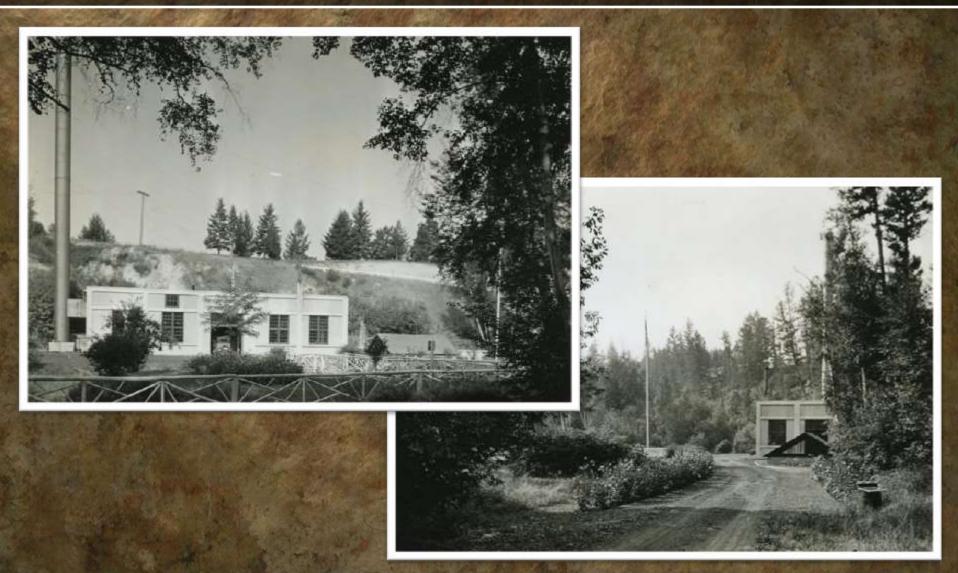
# City of Kalispell Noffsinger Spring



# City of Kalispell Noffsinger Spring



# City of Kalispell Noffsinger Spring



### City of Kalispell Noffsinger Spring from Pump Station

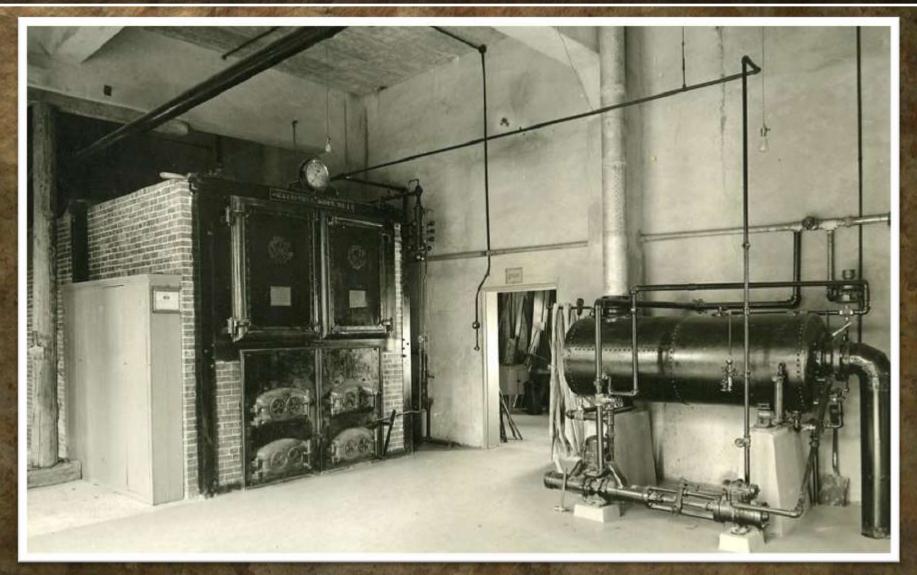


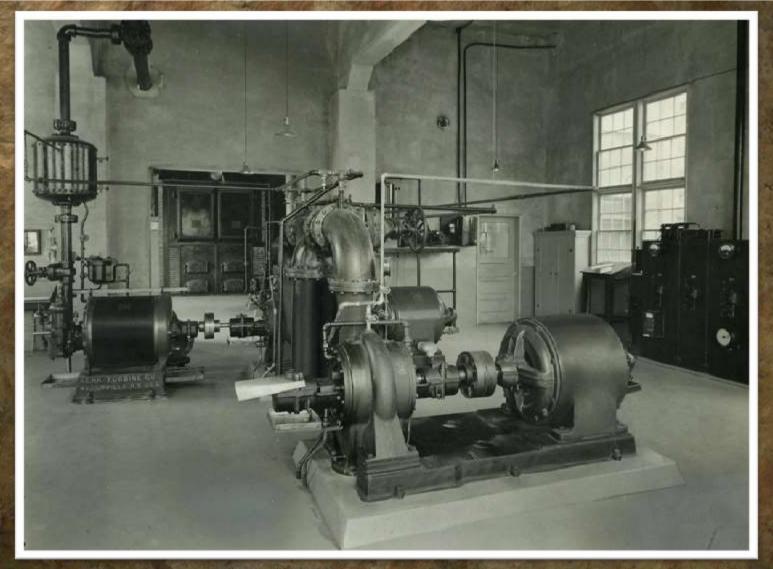


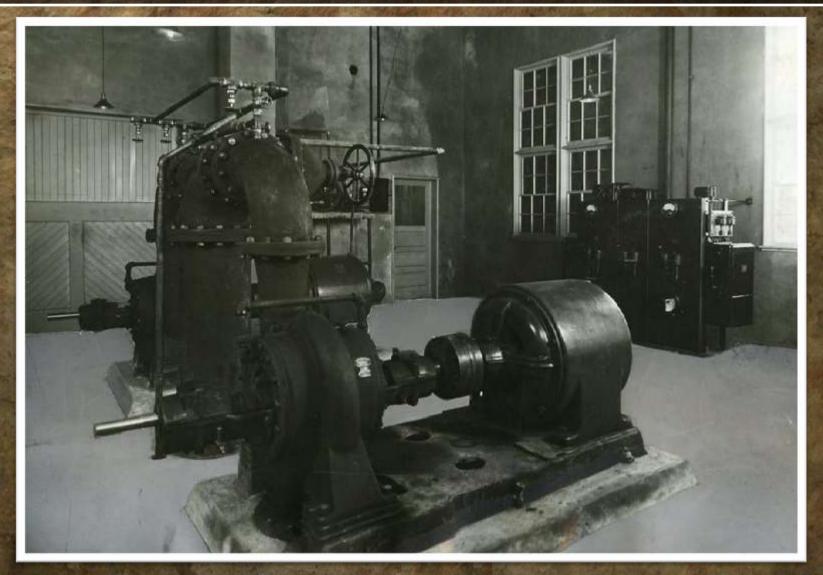
# City of Kalispell Noffsinger Spring from Pump Station

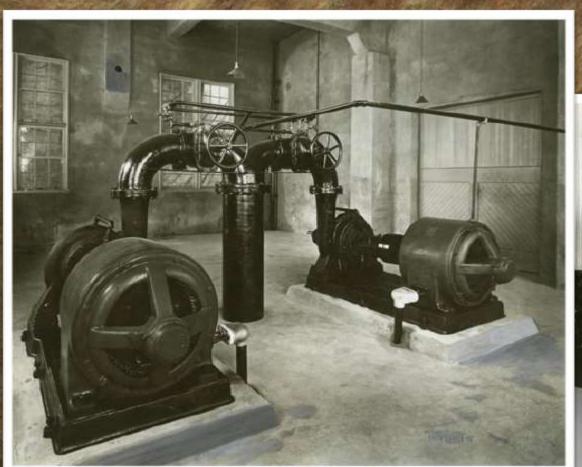


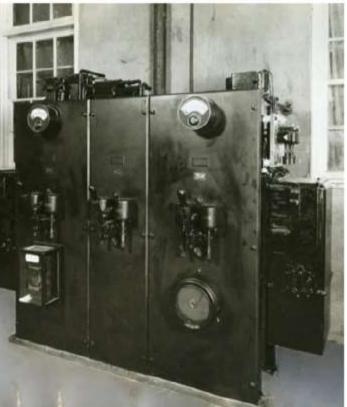




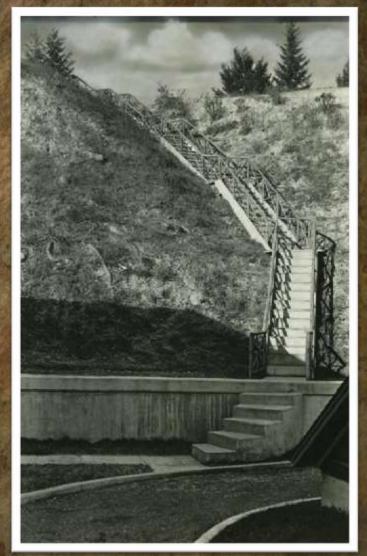








Noffsinger Spring
Stairway to Crest of Bank



Photos Courtesy of the City of Kalispell



**Old Time Water Meter** 

Old Water Foreman



Photos Courtesy of the City of Kalispell

# City of Kalispell Sewer Plant South of Kalispell



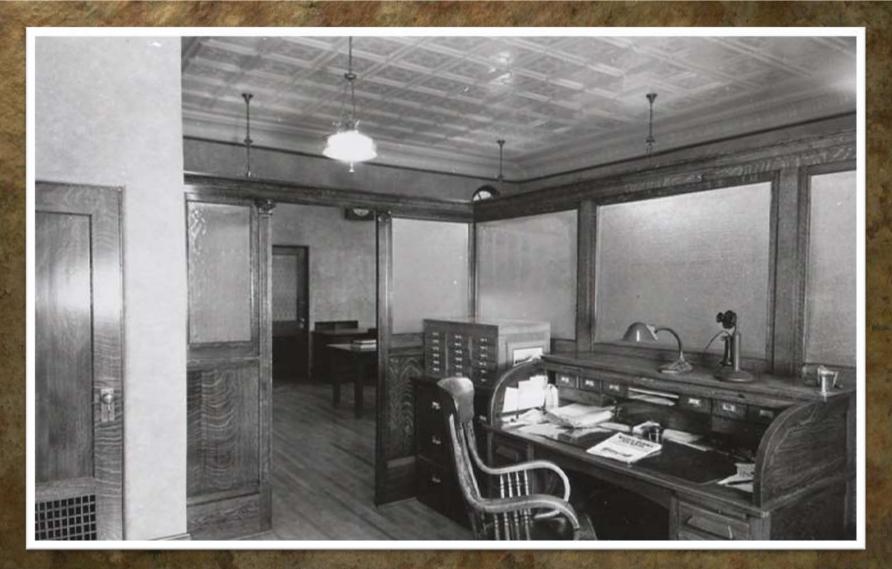
# City of Kalispell Sewer Plant South of Kalispell

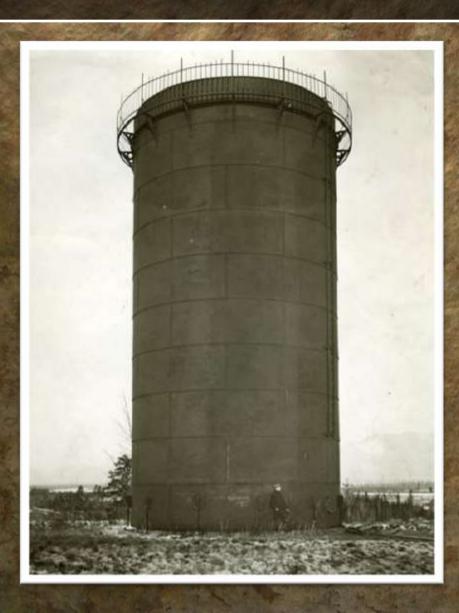


# City of Kalispell Smoke Stack (Possibly Knophlinger)



# City of Kalispell Water Office at City Hall





Water Tank Possibly at Conrad Cemetery

# City of Kalispell Water Works



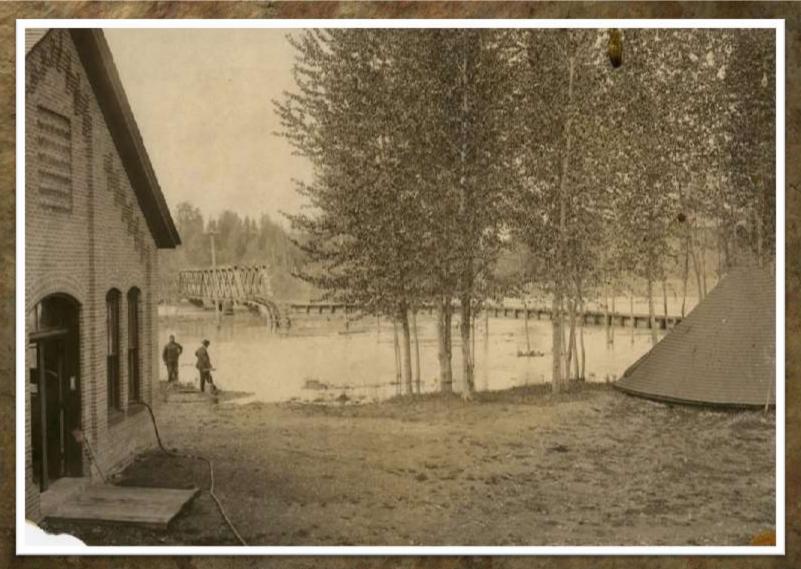
# City of Kalispell Water Works



# City of Kalispell Water Works



# City of Kalispell Water Works



# City of Kalispell Water Works

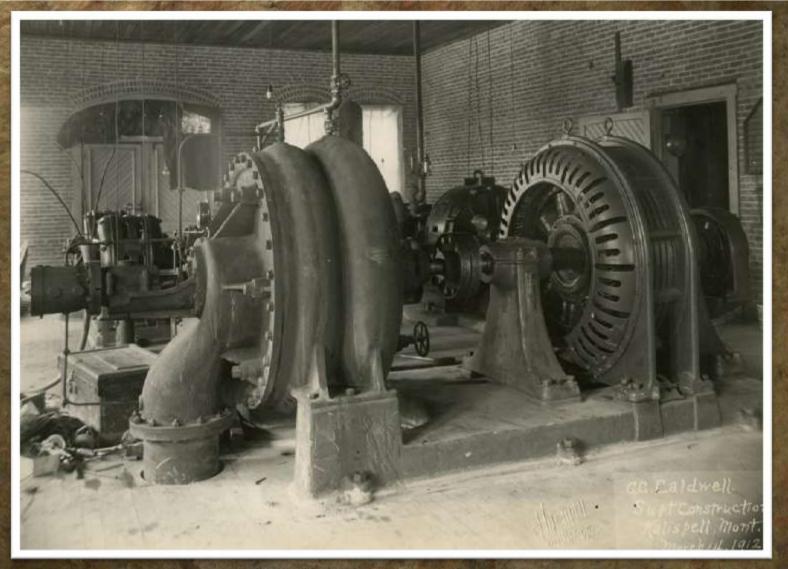


### City of Kalispell

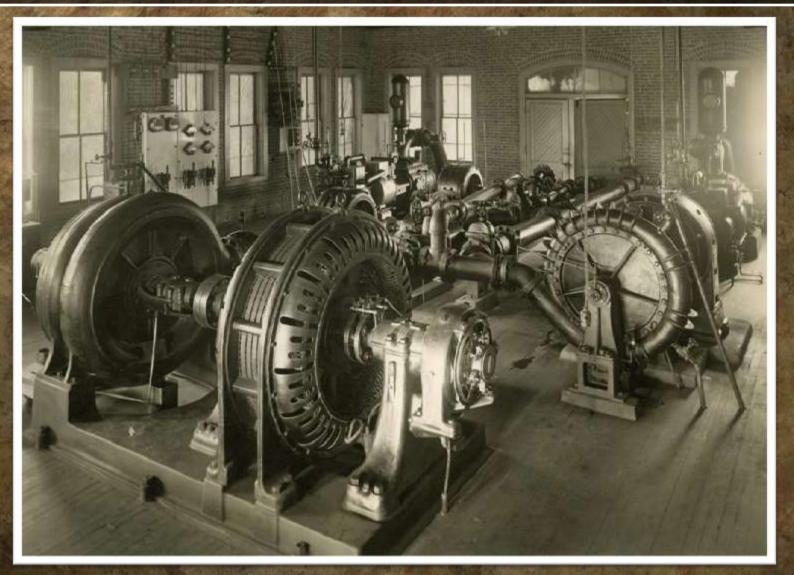


Showing lives in ditch ready to cost over- Changed Sunday Mar, 17-1912.

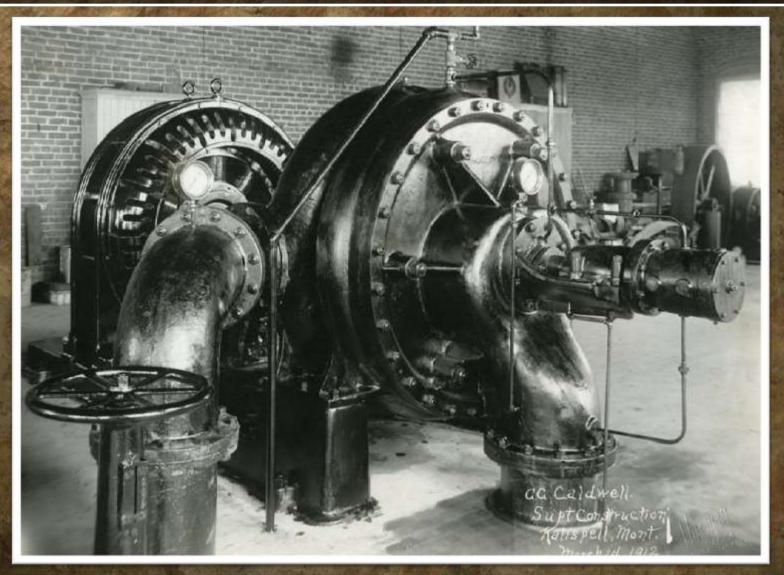
### City of Kalispell Water Works New 400 Pumps & Motor - 1912



### City of Kalispell Water Works – New Pumps



# City of Kalispell Water Works New Unit Complete - 1912



# City of Kalispell Water Works Pipe Mains Leaving Station



1 – 16" Wood Main & 1 – 12" Steel Pipe Main

# City of Kalispell Water Works Section Meter Testing Room



Photos Courtesy of the City of Kalispell

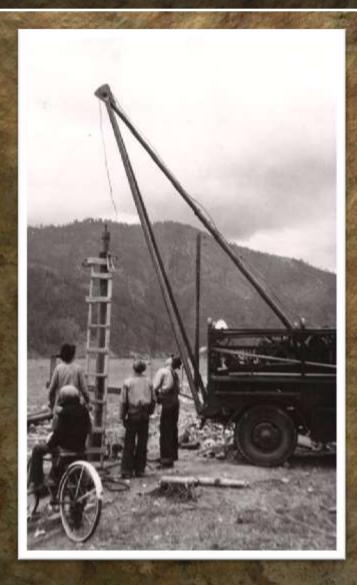
## City of Kalispell



Water Works Suction Lines from Well to New Pump

#### Montana Section AWWA—1938





East Missoula Well 1935



**Photos Courtesy of Mountain Water Company** 



Rattlesnake
30 in. wood main



**Photos Courtesy of Mountain Water Company** 



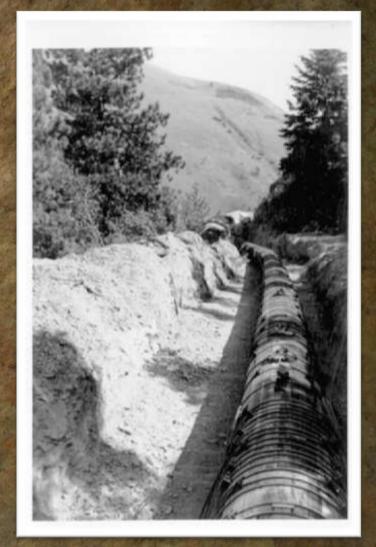
Rattlesnake
30 in. wood main



**Photos Courtesy of Mountain Water Company** 



Rattlesnake
30 in. wood
main



**Photos Courtesy of Mountain Water Company** 





Rattlesnake
30 in. wood
main



Rattlesnake
30 in. wood
main



