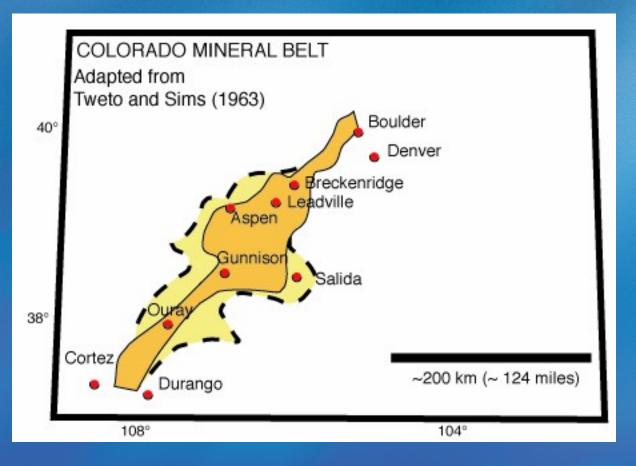
Gold Placer Mining in Colorado

Brian E. Walko February 11, 2016

Outline

- Geologic History
- History of Colorado Gold Mining
- Placer vs. Lode Mining
- Placer Mining Methods & Tools
- Placer Prospecting & Claims
- How to Pan
- How to Sluice
- Prospecting Video

Geologic History



Precambrian Shear Zones

Laramide Orogeny

Discovery – July 1858



Photo Courtesy of Colorado Historical Society

Lewis Ralston

Confluence Clear Creek
 & Ralston Creek

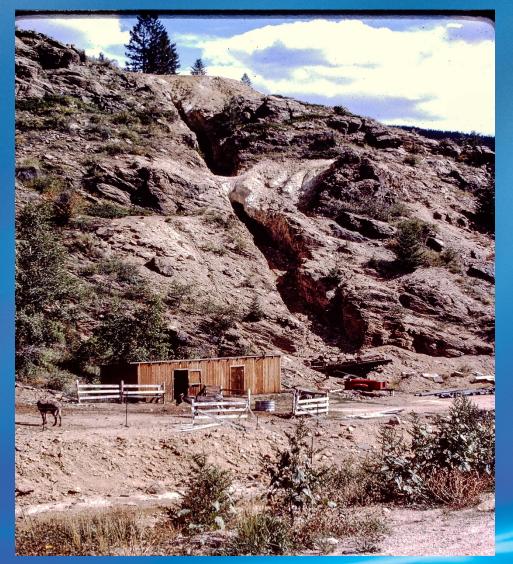
Near present day Arvada

Pikes Peak Gold Rush – 1859 - 1860



Photo Courtesy of Colorado Historical Society

Clear Creek → Central City



Gregory Lode – The First Gold Vein in Colo 1859 Turned Central City into "Richest Square Mile on Earth"

Prospecting for Gold - Past





Photos Courtesy of Colorado Historical Society

Prospecting for Gold - Past

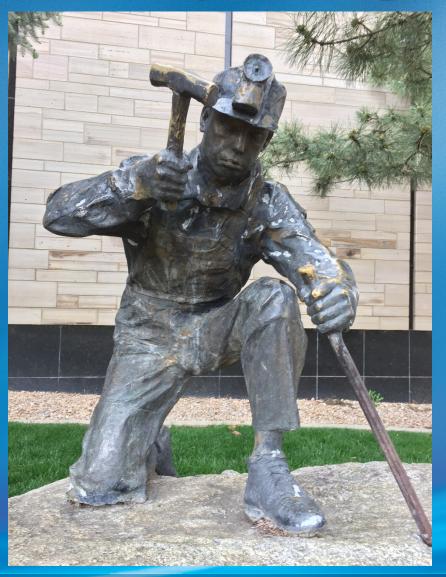


Photo Courtesy of Colorado Historical Society

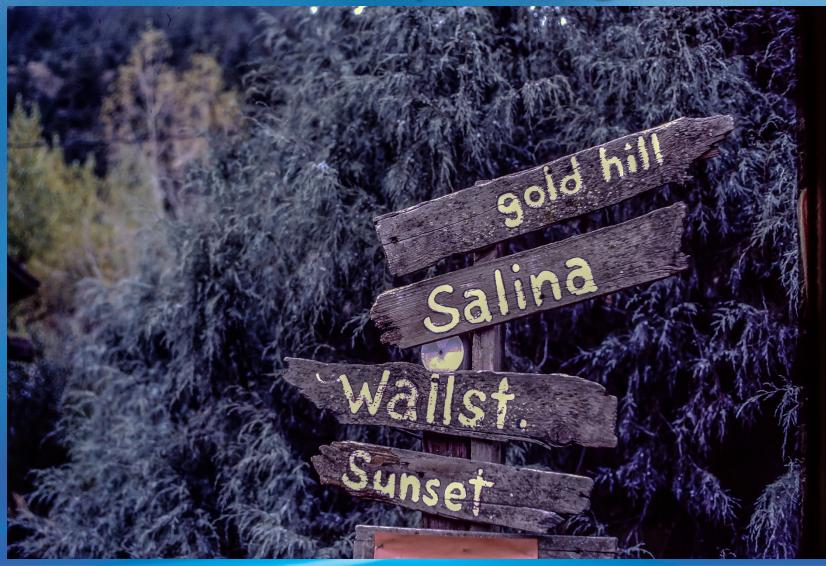
Prospecting for Gold - Present



Boulder County Mining Heritage



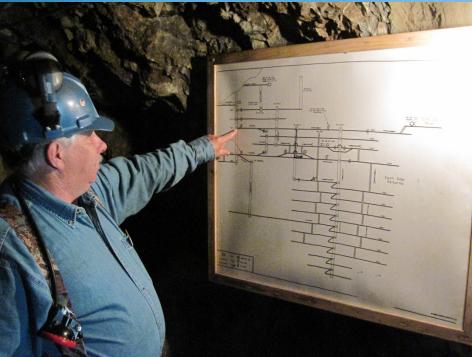
Boulder County Mining Towns



Placer vs. Lode Mining



Placer

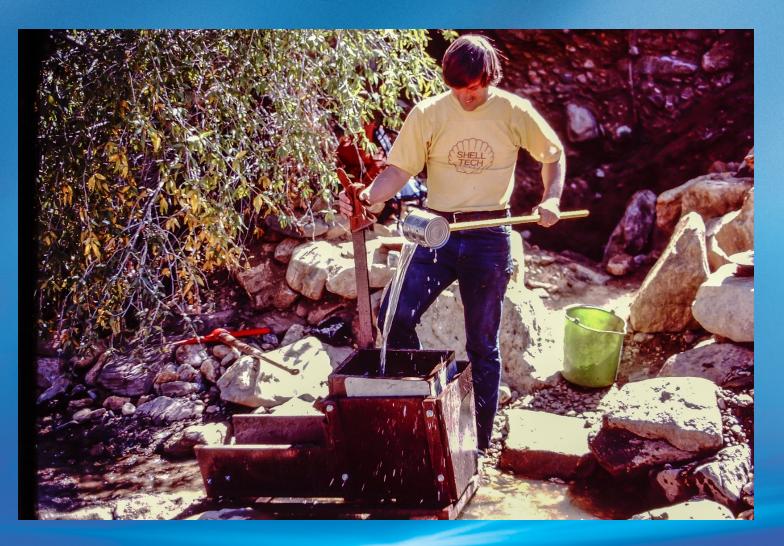




Placer Mining Methods - Panning



Placer Mining Methods - Rocker



Placer Mining Methods - Sluice



Placer Mining Methods - Dredge





Placer Mining Methods - Hydraulic



Photo Courtesy of Colorado Historical Society

Placer Mining Methods – Metal Detector



Photo Courtesy of Garrett Metal Detectors

Placer Tools



GARRETT DELUXE GOLD PANNING KIT

This kit contains the patented 15 inch SuperSluice Gold Pan, the Gravity Trap 14" and 10 1/2" pans, a 1/2" mesh plastic classifier, the Gold Guzzler Bottle, and a book on panning techniques. The Garrett Gold Panning Is Easy book and video are included along with a pair of fine tipped tweezers with an attached magnifier and 2 plastic vials. All are nicely gift

boxed.

#G-1651400 **\$49.95**





Prospecting for Placer Gold

Research: "Where gold has been found before"



Prospecting – Mindat.org

115 entries listed. 93 valid minerals. 1 (TL) - type locality of valid minerals.

Localities in this Region





© mindat.org and the Hudson Institute of Mineralogy 1993-2016

Prospecting – Land

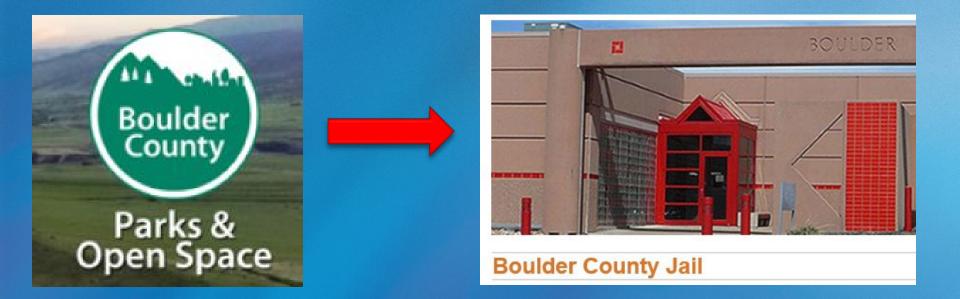
Public
BoCo Parks & Open Space
Private
Federal

Prospecting – Public Land

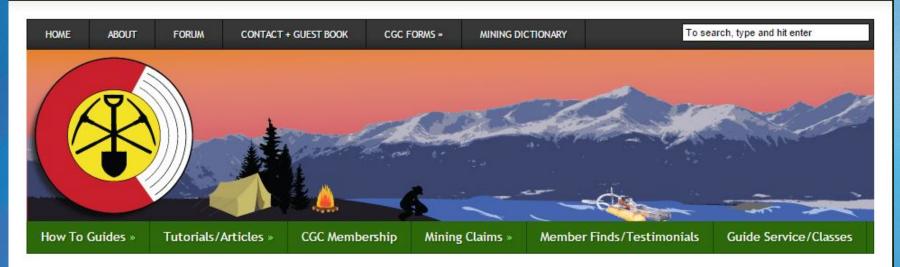
<u>Arapahoe Bar</u> - Panning and sluicing at Wheat Ridge, CO.
<u>Big Bend / Steele Street Open Space</u> – Panning Steele & 78th Adams County <u>Cache Creek</u> - Non-motorized mining in the BLM Cache Creek placer area.
<u>Clear Creek Canyon</u> - Recreational prospecting at Clear Creek Canyon Park.
<u>Fairplay Beach</u> - Panning at Fairplay, CO.
<u>Phoenix Gold Mine</u> (Fee) - Pan for gold at Trail Creek near Idaho Springs.



Prospecting – BoCo Boulder County Parks & Open Space

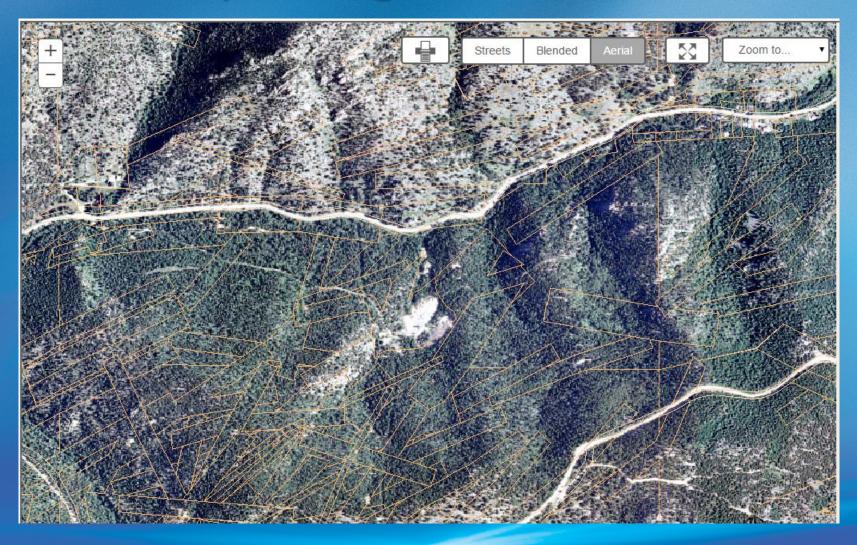


Prospecting – Private Land Gold Clubs



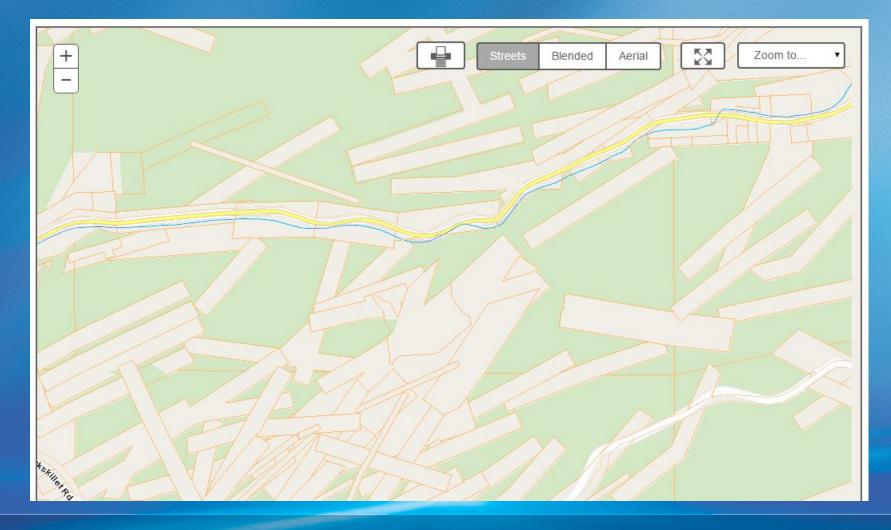
CGC Membership

Prospecting – Private Land



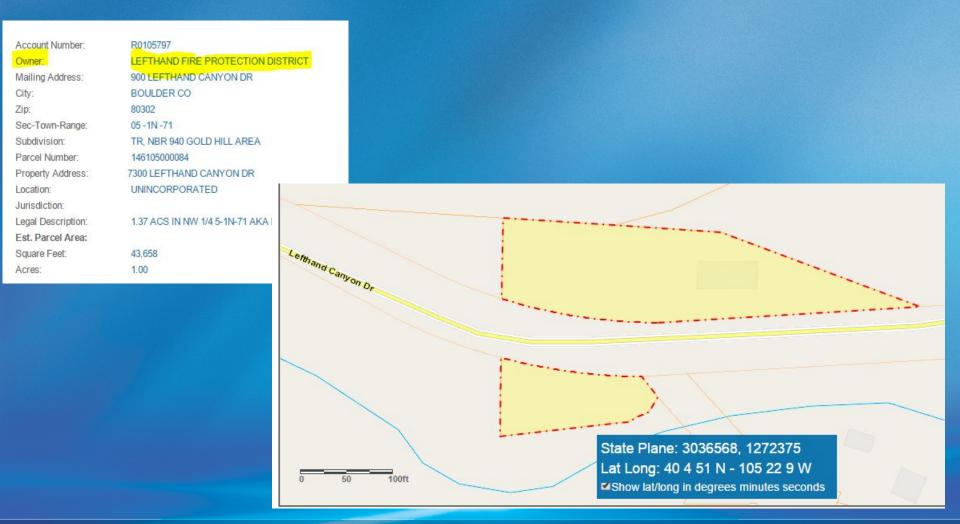
Prospecting – Private Land

Boulder County Assessor's Office Property Search



Prospecting – Private Land

Boulder County Assessor's Office Property Search



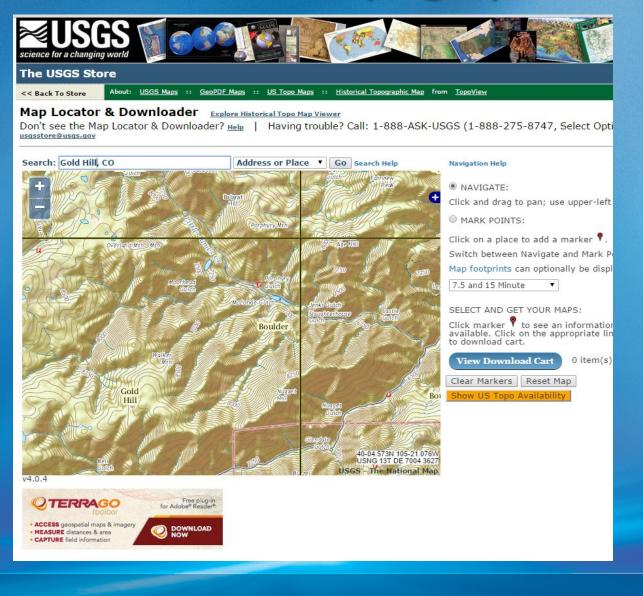
Prospecting – Federal Land



NATIONAL SYSTEM OF PUBLIC LANDS

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Claims Research – Topographic Maps



Claims Research – Google Earth



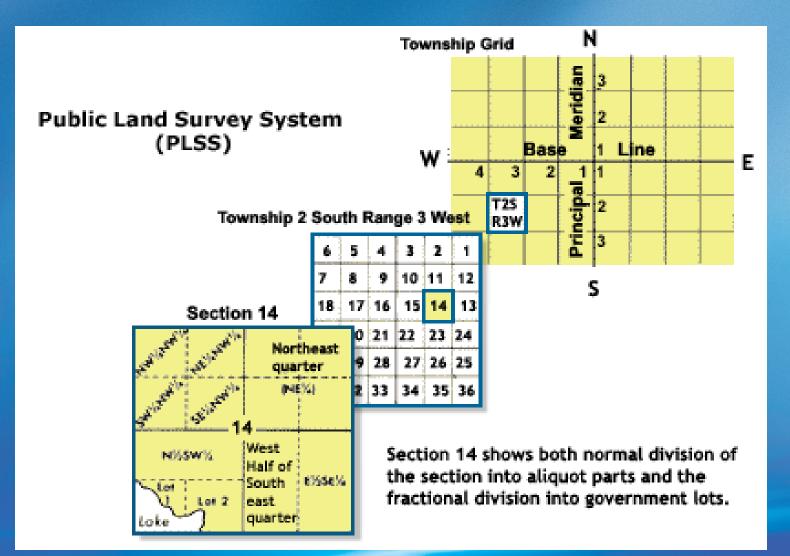
Claims Research – Unclaimed?



Claims Research – Claimed



Claims Research – PLSS



Claims Research – GeoCommunicator



Claims Research – T1N R72W Sec 01



Claims Research – LR2000



PUB MC GEO INDEX ()					
Please Set the Limits You Would Like to Filter On					
MANDATORY CRITERIA					
Set Admin State Limit(s) Selected: (CO) COLORADO					
Close Meridian Township Range Section Limit(s) Selected: (06 0010N 0720W 001) MTRS Format: 06 0010S 0980W 001 Meridian: 06 - 6TH PM V Fraction Direction Township: 1 None North Range: 72 Section: 1 Add to MTR List Clear Above Values Image: 06 0010N 0720W 001 Image: 06 0010N 0720W 001					
Set Case Disposition Limit(s) Selected: (A) ACTIVE					

ACTIVE, CLOSED CLAIMS

Meridian Township Range: 06 0010N 0720W

Case

		Case							
SEC SUB DIV	Ser No	Type	Claim Name/Number	Claimant	Lead File	County	Loc Dt	Latest_	Closed
001 SE	CMC238317	LODE	CALAMBIA #11	COLUMBIA CITY GOLD	CMC238308		07/21/1990	1992	08/31/1993
SE	CMC238317	LODE	CALAMBIA #11	WALDNER DAVID	CMC238308		07/21/1990	1992	08/31/1993
SE	CMC238325	LODE	CALAMBIA #22	COLUMBIA CITY GOLD	CMC238308		07/21/1990	1992	08/31/1993
SE	CMC238325	LODE	CALAMBIA #22	WALDNER DAVID	CMC238308		07/21/1990	1992	08/31/1993
SE	CMC243443	PLACER	DONNA E	CRAVEN CORNELIE K	CMC243443		09/29/1992	1995	08/31/1995
SE	CMC247950	PLACER	DONNA E.	CRAVEN CORNELIE K	CMC247950		09/11/1995	2007	09/02/2008
SE	CMC271710	PLACER	DONNA E	CRAVEN CORNELIE K	CMC271710		09/25/2007	2012	09/04/2012
SE	CMC284998	PLACER	DONNA E	MARTINEK ANDREW B	CMC284998		03/12/2013	2016	
SW	CMC176123	LODE	RIP 1/29	ENERGETICS INC	CMC176100	450649;1169;0	06/04/1981	1988	07/16/1990
SW	CMC176124	LODE	RIP 1/31	ENERGETICS INC	CMC176100	450650;1169;0	06/04/1981	1988	07/16/1990
SW	CMC176125	LODE	RIP 1/33	ENERGETICS INC	CMC176100	450651;1169;0	06/04/1981	1988	07/16/1990
SW	CMC176126	LODE	RIP 1/35	ENERGETICS INC	CMC176100	450652;1169;0	06/04/1981	1988	07/16/1990
SW	CMC202686	LODE	EVENING STAR	REARDON MICHAEL P	CMC202681	594596;1283;0	12/07/1983	1986	08/31/1993
SW	CMC202687	LODE	FREDDIE	REARDON MICHAEL P	CMC202681	594597;1283;0	12/09/1983	1986	08/31/1993
SW	CMC202691	LODE	MORNING STAR	REARDON MICHAEL P	CMC202681	594601;1283;0	12/08/1983	1986	08/31/1993
SW	CMC202696	LODE	POLAR STAR	REARDON MICHAEL P	CMC202681	594606; 1283;0	12/07/1983	1986	08/31/1993
SW	CMC202698	LODE	TERRY	REARDON MICHAEL P	CMC202681	594608;1283;0	12/09/1983	1986	08/31/1993
SW	CMC210864	LODE	GOLD GULCH #2	BOULDER COUNTY	CMC210863	689054;1354;0	05/16/1985	2016	
SW	CMC210864	LODE	GOLD GULCH #2	COLORADO MILLING COMPANY LLC	CMC210863	689054;1354;0	05/16/1985	2016	
SW,SE	CMC176122	LODE	RIP 1/27	ENERGETICS INC	CMC176100	450648;1169;0	06/04/1981	1988	07/16/1990
SW,SE	CMC202688	LODE	GERTRUDE	REARDON MICHAEL P	CMC202681	594598;1283;0	12/09/1983	1986	08/31/1993

Run Time: 08:13 PM

UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT MINING CLAIM GEOGRAPHIC INDEX REPORT

ACTIVE CLAIMS

Run Date: 01/27/2016 Page 1 of 1

Geo State: CO County: BOULDER BLM Resource Area: ROYAL GORGE FO Meridian Township Range: 06 0010N 0720W

			Case							
SEC	SUB DIV	Ser No	Туре	Claim Name/Number	Claimant	Lead File	County	Loc Dt	Latest	Closed
001	SE	CMC284998	PLACER	DONNA E	MARTINEK ANDREW B	CMC284998		03/12/2013	2016	
	SW	CMC210864	LODE	GOLD GULCH #2	BOULDER COUNTY	CMC210863	689054;1354;0	05/16/1985	2016	
	SW	CMC210864	LODE	GOLD GULCH #2	COLORADO MILLING COMPANY LLC	CMC210863	689054;1354;0	05/16/1985	2016	

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MINING CLAIMS

Run Date/Time: 01/27/16 08:15 PM	(MASS) Serial Register Page		Page 1 o
01 10-21-1976;090 STAT0090;43U SC1744 Case Type 384201: PLACER CLAIM	Total Acres	Serial Number	
Claim Name: DONNA E Case Disposition: ACTIVE	2.441	CMC284998 Lead File Number CMC284998	
Required Maintenance Fee: \$155.00 Name & Address		Int Rel	
MARTINEK ANDREW B PO BOX 131 WARD, CO B0481-0131		CLAIMANT	
County / State	District		
BOULDER County, CO	FRONT RANGE DO		7

Mer Twp R	Twp Rng Sec		Subdivision					
06 0010N 0720N 001			SE					
Act Date	Code	Action Text	Action Remarks	Receipt Number				

Act Date	Code	Action Text	Action Remarks	Receipt Number
03/12/2013	403	LOCATION DATE		
03/26/2013	395	RECORDATION NOTICE RECD	1	2763890
08/28/2015	782	MAINTENANCE FEE PAYMENT	2016;\$155	3379687
09/02/2014	782	MAINTENANCE FEE PAYMENT	2015;\$155	3119874
08/16/2013	682	MAINTENANCE FEE/\$140	2014;\$140	2857232
03/26/2013	484	LOCATION YEAR / MAINTENAN	2013;\$140	2763890

Claims Research – BoCo Recorder

Office of the Clerk & Recorder Recording Division 1750 33rd Street, Suite 201 Boulder, CO 80301

Boulder County Recording Division Online Services

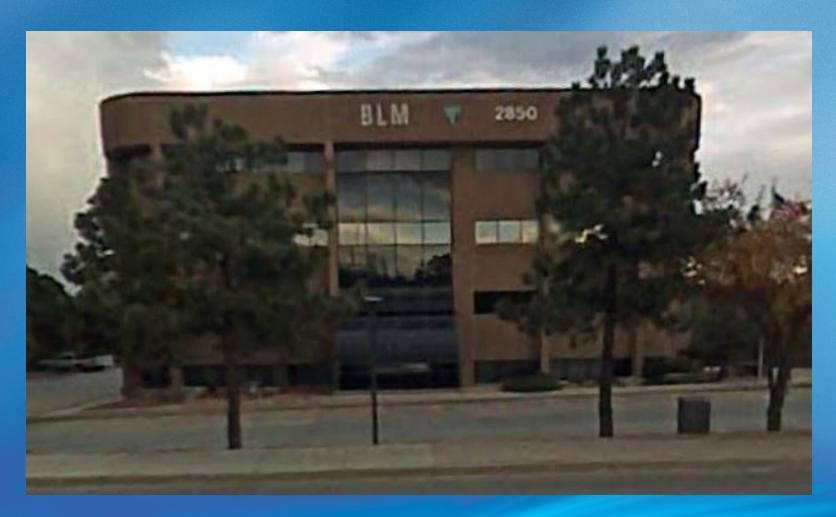
History: 03368245 PER REP DEED V Document Info Related Inst. Return Address aller! . Number of Pages: 2 1253 Consideration Amt.: \$40,000.00 Remarks: Notes: Name Information Grantor: CRAVEN CORY ESTATE CRAVEN CORNELIE KUYLAARS ESTATE RICHARDS ROBERTA A PER REP Grantee: MARTINEK ANDREW B Parcel #1: Address / Legal Description Legal Description: SEC 1 T 1N R 72W TR HONG KONG LODE #465 Page 1 of 2. LITTLE GIANT LODE 16620

Guest users please log in here

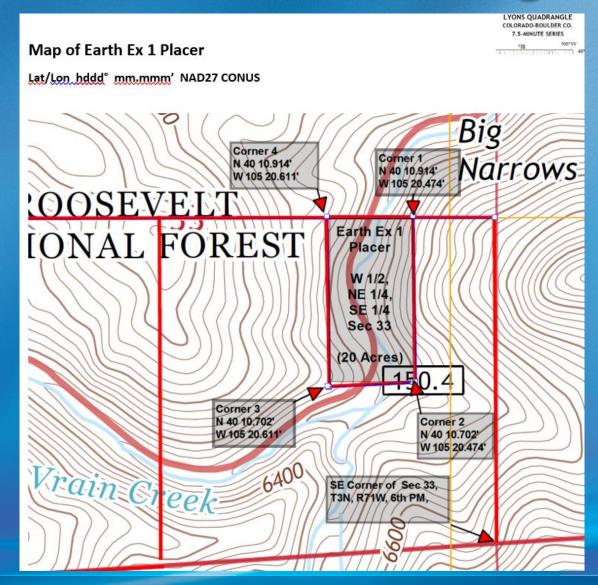
Boulder

County

Claims Research – BLM Office



Claims Research – Existing Claim



Where to Look for Placer Gold



Where to Look – Gravel Bars



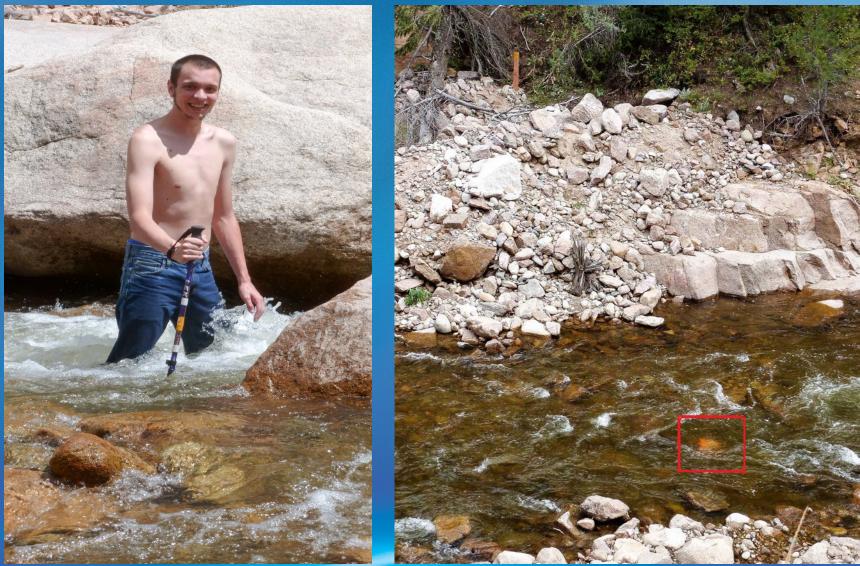
Where to Look – Ancient Gravel Bars



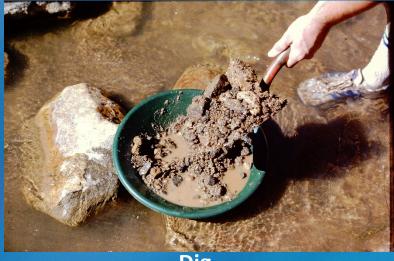
Where to Look – Bedrock Cracks



Caution!



How to Pan



Dig



Agitate



Pluck



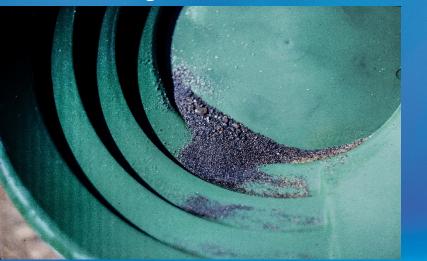
Wash

How to Pan





Agitate





Black Sand

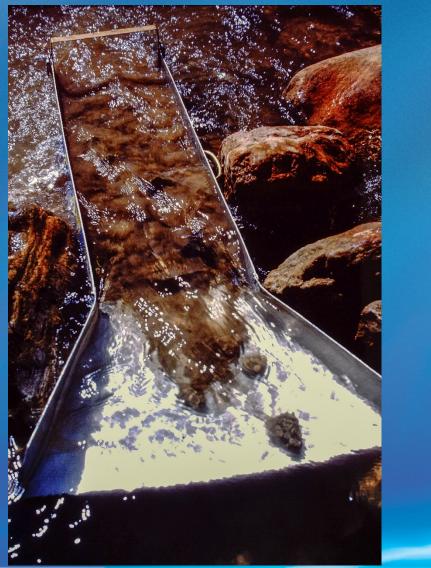


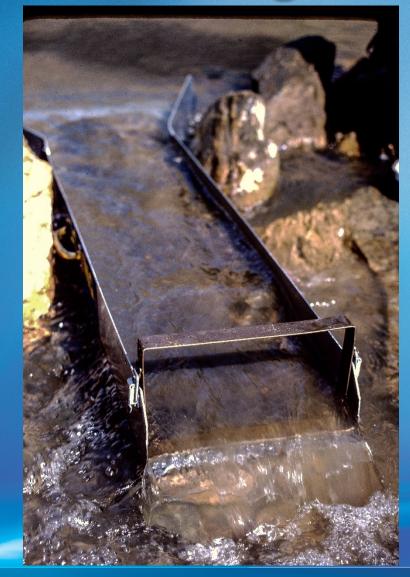
How to Sluice - Setup





How to Sluice - Processing





How to Sluice - Cleanout





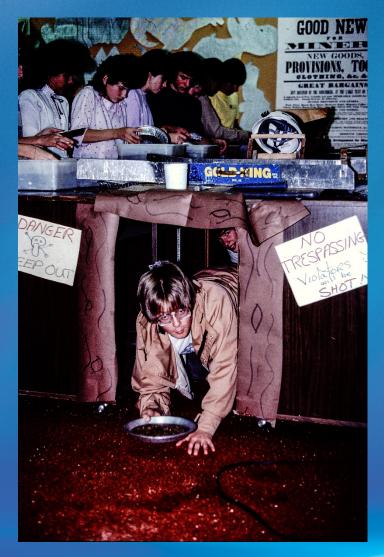




How to Sluice - Cleanout



Where Did the Gold Go?





Gold Prospecting Video

Thank you!



Photo Courtesy of Alaska Mining – GNU Free Documentation