

RECORD IDENTIFICATION

RECORD NO..... M061598
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... 052
 MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, M. G.
 DATE..... 76 05

NAME AND LOCATION

DEPOSIT NAME..... YOUNG'S MINE
 SYNONYM NAME..... BAILEY DOZEN CLAIMS

COUNTRY CODE..... JS
 COUNTRY NAME: UNITED STATES

STATE CODE..... OR
 STATE NAME: OREGON

COUNTY..... JOSEPHINE

QUAD SCALE QUAD NO OR NAME
 1: 62500 PEARSON PEAK

LATITUDE LONGITUDE
 42-17-57N 122-48-46W

UTM NORTHING UTM EASTING UTM ZONE NO
 4683100. 433000. +10

TWP..... 38S 37S
 RANGE..... 09W 09W
 SECTION.. 06 31
 MERIDIAN. W.M.

ALTITUDE.. 3200 FT

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR RH

PRODUCER(PAST OR PRESENT):
 MAJOR PRODUCTS.. CR

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
 POTENTIAL.....

ORE MATERIALS (MINERALS, ROCKS, ETC.):
DISSEMINATED CHROMITE

ANALYTICAL DATA (GENERAL)
CONCENTRATE ASSAYED 52% CR2O3, 2.1 CR:FE, RH 0.012 PPM

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4
PRESENT/LAST OPERATOR.... J.R. HOLMAN

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
FORM/SHAPE OF DEPOSIT: BANDED, LENS, FLAT

SIZE/DIRECTIONAL DATA
MAX LENGTH..... 30 FT.
MAX WIDTH..... 12 FT.
STRIKE OF DREBODY.... N30E
DIP OF DREBODY..... STEEP
COMMENTS (DESCRIPTION OF DEPOSIT):
NORTH SIDE BANDED -DIFFERENT FROM SOUTHSIDE -LENS.

DESCRIPTION OF WORKINGS
SURFACE

PRODUCTION
YES
SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		.800	TONS	1954	47% CR2O3 TO 49% CR2O3, 17% FE
21 TOTAL		.800	TONS		48.00 % CR2O3 (WEIGHTED AVERAGE GRADE)

GEOLOGY AND MINERALOGY
HOST ROCK TYPES..... DUNITE
PERTINENT MINERALOGY..... TALC, CHROME CHLORITE, SERPENTINE, UVAROVITE

LOCAL GEOLOGY

SIGNIFICANT LOCAL STRUCTURES:
LANDSLIDES & NUMEROUS OFFSETS ON TRANSVERSE FAULTS.

GENERAL REFERENCES

RECORD IDENTIFICATION

RECORD NO..... M015310
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
FILE LINK ID..... CONSV
MAP CODE NO. OF REC..

REPORTER

NAME..... LEE, W.
DATE..... 77 01

NAME AND LOCATION

DEPOSIT NAME..... YOUNG'S MINE

MINING DISTRICT/AREA/SUBDIST. CENTRAL ILLINOIS RIVER

COUNTRY CODE..... US
COUNTRY NAME: UNITED STATES

STATE CODE..... OR
STATE NAME: OREGON

COUNTY..... JOSEPHINE

QUAD SCALE QUAD NO OR NAME
1: 62500 PEARSOLL PEAK QUAD.

LATITUDE LONGITUDE
42-17-51N 123-48-35W

UTM NORTHING UTM EASTING UTM ZONE NO
4682900. 433250. +10

TWP..... 038S
RANGE..... 009W
SECTION.. 06
MERIDIAN. WM

LOCATION COMMENTS: NW1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLDR. OR DEV. 8

DEVELOPED BY SEVERAL OPEN CUTS.

PRODUCTION
YES

PRODUCTION COMMENTS..... ABOUT 800 TONS OF ORE.

GEOLOGY AND MINERALOGY

HOST ROCK TYPES..... COUNTRY ROCK IS A WEATHERED, BLOCKY DUNITE LARGELY ALTERED TO SERPENTINE AND TALC

IMPORTANT ORE CONTROL/LOCUS.. ORE OCCURS AS EITHER SMALL LENSES OF MASSIVE CHROMITE OR AS DISSEMINATED, BANDED ORE.

GENERAL REFERENCES

- 1) ODGMI BULL. 52, P. 43
- 2) ORE BIN, VOL. 19, NO. 4, P. 29 (NO. 17)

ME 1574 Mineral composition, weight percentage estimates, Youngs Daily Dozen

Head Sample Product	Pct. of total sample	Mineral fractions, wt pct ¹							Pct of locked chromite
		Chromite	Olivine	Serpentine	Chlorite	Magnetics ²	Sulfides	Ferromagnesian silicates	
28 x 65 mesh	78	15	2	72	7	5	ND	ND	
-65 mesh	22	27	2	44	22	4	ND	ND	
Composite.....	100	18	2	66	10	5	ND	ND	

Tr Trace.

ND Not detected.

¹Totals may not add up to 100 pct due to independent rounding.

²Materials removable with a permanent hand magnet.

ME 1575 Mineral composition, weight percentage estimates, Youngs Daily Dozen

Head Sample Product	Pct of total sample	Mineral fractions, wt pct ¹							Pct of locked chromite
		Chromite	Olivine	Serpentine	Chlorite	Magnetics ²	Sulfides	Ferromagnesian silicates	
28 x 65 mesh	70	22	TR	72	5	1	ND	ND	
-65 mesh	30	20	TR	66	11	2	TR	ND	
Composite.....	100	22	TR	72	5	1	TR	ND	

Tr Trace.

ND Not detected.

¹Totals may not add up to 100 pct due to independent rounding.

²Materials removable with a permanent hand magnet.

ME 1576 Mineral composition, weight percentage estimates, Youngs Daily Dozen

Head Sample Product	Pct. of total sample	Mineral fractions, wt pct ¹							Pct of locked chromite
		Chromite	Olivine	Serpentine	Chlorite	Magnetics ²	Sulfides	Ferromagnesian silicates	
28 x 65 mesh	67	24	1	66	8	2	ND	ND	
-65 mesh	33	22	2	64	7	4	ND	ND	
Composite.....	100	23	1	65	8	3	ND	ND	

¹ Trace.

ND Not detected.

¹Totals may not add up to 100 pct due to independent rounding.

²Materials removable with a permanent hand magnet.

TABLE 1. HEAD ANALYSES OF 3 BULK CHROMITE SAMPLES FROM THE YOUNG'S DAILY DOZEN CLAIM, JOSEPHINE COUNTY, OREGON

SAMPLE	DESCRIPTION	WEIGHT, KG	ANALYSIS, PCT				
			Cr ₂ O ₃	Fe	Al ₂ O ₃	MgO	SiO ₂
ME 1574	DUMP BELOW OUTCROP	43.4	11.4	7.0	1.5	34.5	28.0
ME 1575	HIGH-GRADE BOULDER	31.9	11.9	7.1	1.6	35.3	27.1
ME 1576	OUTCROP ~40 FT ABOVE ROAD	47.6	14.6	7.2	1.8	34.6	27.0

SAMPLE	ANALYSIS, OZ/TON			
	Pt	Pd	Au	Ag
ME 1574	<0.0003	<0.0003	0.002	<0.01
ME 1575	<.0003	<.0003	<.0004	<.01
ME 1576	<.0003	<.0003	<.0002	<.01

TABLE 2. GRAVITY TABLE CONCENTRATION OF CHROMITE SAMPLE FROM THE DUMP BELOW THE OUTCROP AT YOUNG'S DAILY DOZEN CLAIM (ME157)

PRODUCT ^{1/}	WT-PCT	ANALYSIS, PCT					Cr DISTRIBUTION, PCT	Cr:Fe RATIO
		Cr ₂ O ₃	Fe	Al ₂ O ₃	MgO	SiO ₂		
28-BY 65-MESH CONCENTRATE *	4.7	52.7	18.5	6.4	12.4	3.7	19.4	2.0
MINUS 65-MESH: ROUGHER CONCENTRATE *	12.5	53.6	18.4	6.2	12.0	3.4	52.4	2.0
ROUGHER MIDDINGS	12.1	18.2					17.2	
SCAVENGER CONCENTRATE *	2.1	39.0	14.9	4.4	20.4	12.1	6.4	1.8
SCAVENGER TAILINGS	10.0	13.8					10.8	
ROUGHER COARSE TAILINGS	50.6	1.1					4.4	
ROUGHER SLIME TAILINGS	20.1	4.2					6.6	
COMPOSITE OR TOTAL	100.0	12.8					100.0	
CALCULATED COMPOSITE CONCENTRATE ^{1/}	19.3	51.8	18.0	6.0	13.0	4.4	78.2	2.0

PRODUCT	ANALYSIS, OZ/TON			
	Pt	Pd	Au	Ag
28-BY 65-MESH CONCENTRATE	<0.001	<0.001	<0.0008	0.01
MINUS 65-MESH ROUGHER CONCENTRATE	<.001	<.001	<.0008	.01

^{1/} PRODUCTS WITH ASTERISKS HAVE BEEN MATHEMATICALLY COMBINED TO GIVE THE CALCULATED COMPOSITE CONCENTRATE.

TABLE 3. GRAVITY TABLE CONCENTRATION OF CHROMITE SAMPLE FROM A HIGH-GRADE BOULDER AT YOUNG'S DAILY DOZEN CLAIM (ME 1575)

PRODUCT ^{1/}	WT-PCT	ANALYSIS, PCT					Cr DISTRIBUTION, PCT	Cr:Fe RATIO
		Cr ₂ O ₃	Fe	Al ₂ O ₃	MgO	SiO ₂		
28-BY 65-MESH CONCENTRATE *	7.9	54.3	17.0	6.6	12.8	3.7	32.7	2.2
MINUS 65-MESH: ROUGHER CONCENTRATE *	9.6	55.9	17.9	6.5	11.7	2.3	40.9	2.1
ROUGHER MIDDINGS	11.4	19.2						
SCAVENGER CONCENTRATE *	3.2	43.2	15.0	4.9	18.5	9.8	10.5	2.0
SCAVENGER TAILINGS	8.2	9.8					6.1	
ROUGHER COARSE TAILINGS	50.5	1.0					3.8	
ROUGHER SLIME TAILINGS	20.6	3.8					6.0	
COMPOSITE OR TOTAL	100.0	13.1					100.0	
CALCULATED COMPOSITE CONCENTRATE ^{1/}	20.7	53.3	17.1	6.3	13.2	4.0	84.1	2.1

PRODUCT	ANALYSIS, OZ/TON			
	Pt	Pd	Au	Ag
28-BY 65-MESH CONCENTRATE	<0.001	<0.001	<0.0008	0.01
MINUS 65-MESH ROUGHER CONCENTRATE	<.001	<.001	<.0008	.01

^{1/} PRODUCTS WITH ASTERISKS HAVE BEEN MATHEMATICALLY COMBINED TO GIVE THE CALCULATED COMPOSITE CONCENTRATE.

TABLE 4. GRAVITY TABLE CONCENTRATION OF CHROMITE SAMPLE FROM OUTCROP AT YOUNG'S DAILY TOWN CLAIM (ME 1576)

PRODUCT ^{1/}	WT-PCT	ANALYSIS, PCT					Cr DISTRIBU- TION, PCT	Cr: Fe RATIO
		Cr ₂ O ₃	Fe	Al ₂ O ₃	MgO	SiO ₂		
28-BY 65-MESH CONCENTRATE *	12.2	49.3	15.8	6.4	15.6	5.9	39.8	2.1
MINUS 65-MESH: ROUGHER CONCENTRATE *	11.4	54.6	17.1	6.5	12.7	2.6	41.2	2.2
ROUGHER MIDDINGS	11.2	15.1					11.2	
SCAVENGER CONCENTRATE *	2.5	48.0	15.9	5.5	16.2	7.3	7.9	2.1
SCAVENGER TAILINGS	8.7	5.6					3.2	
ROUGHER COARSE TAILINGS	44.3	1.1					3.2	
ROUGHER SLIME TAILINGS	20.9	3.4					4.7	
COMPOSITE OR TOTAL	100.0	15.1					100.0	
CALCULATED COMPOSITE CONCENTRATE ^{1/}	26.1	51.5	16.4	6.4	13.4	4.6	88.9	2.1

PRODUCT	ANALYSIS, OZ/TON			
	Pt	Pd	Au	Ag
28-BY 65-MESH CONCENTRATE	<0.001	<0.001	<0.0008	0.01
MINUS 65-MESH ROUGHER CONCENTRATE	<.001	<.001	<.0008	.01

^{1/} PRODUCTS WITH ASTERISKS HAVE BEEN MATHEMATICALLY COMBINED TO GIVE THE CALCULATED COMPOSITE CONCENTRATE.

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

Josephine County
Illinois River Dist.

Young's Mine (Dailey Dozen claims) (17).

The Dailey Dozen group of 11 claims were located in 1952 by T. E.

Young and Glenn C. Young, Kerby, Oregon. The claims are located in the NW $\frac{1}{4}$ of sec. 6, T. 38 S., R. 9 W., the SW $\frac{1}{4}$ of sec. 31, T. 37 S., R. 9 W., and the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 2, T. 38 S., R. 10 W. The area is reached via the Illinois River road to a point 11.5 miles from Selma, the Chetco Pass road 3.8 miles and about 1 mile on the mine road to the right. Short spur roads both above and below the main road lead to the various workings. The claims were examined September 15, 1958. Glenn Young, Kerby, assisted as guide and informant.

Development consists of several open cuts situated on both sides of the northeast trending ridge between Dailey Creek and Rancherie Creek. The principal workings are on the northwest side of the ridge both above and below the Chrome King mine road. The bulk of production is partly from a large cut situated on claim No. 4(?) in the slide area about 1,000 feet below, north of the road in the S $\frac{1}{2}$ of the SW $\frac{1}{4}$ of sec. 31, T. 37 S., R. 9 W.; and partly from a large open cut on claim No. 7 located about $\frac{1}{2}$ mile south 30° W. at 3,200 feet (altimeter) elevation near the line between secs. 1 and 6, T. 38 S., R. 10 and 9 W.

The reported total production from Young's Dailey Dozen group claims is about 800 tons of disseminated ore, all of which was concentrated at various mills. Youngs reportedly shipped about 70 tons to Birdseye Creek Mill, 38 tons to Ashland Mining Company Mill, and 14 tons to the Southwest Mines, Inc. Mill located at Waters Creek in 1952.

Most of the ore was produced when the mine was under lease to J. R.

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Holman, Pasadena, California, in 1954. About 300 tons were reportedly mined from the slide area on No. 4 claim and 400 tons from the large cut on No. 7 claim. Concentrates produced at the Wonder Mine mill located in Curry County sec. 11, T. 38 S., R. 10 W., reportedly assayed 47 to 49 percent Cr_2O_3 and about 17 percent Fe. Due to the high iron content the concentrates were mixed with higher grade concentrates from Coalinga, California. A concentrate made at McCaleb's mill, also in sec. 11, T. 38 S., R. 10 W., reportedly assayed 52 percent Cr_2O_3 and with a 2.1 Cr:Fe ratio.

Chromite occurrences on the Dailey Dozen group claims on the southeast side of the ridge differ from those on the northwest side. On the southeast side small lenses of fairly massive medium to coarse-grained chromite are intimately mixed with a gangue of talc, serpentine, and minor kammererite and uvarovite. The ore is similar in appearance to the nearby Saddle chrome and is possibly part of the same zone. The country rock is a broken weathered talcy dunite serpentine. Much of the chromite prospect- ed occurs as float.

On the northwest side of the ridge a crudely to well-banded dissemin- ated chromite in blocky partly serpentized dunite occurs in two parallel zones striking approximately N. 30° E. Dips are generally steep. The π zones vary from 2 to 12 feet wide and where measured are about 30 feet apart. The chromite content of the zones ~~varies~~ varies from 5 percent up to about 60 percent in the richer bands. Landsliding and numerous offsets along transverse faults have resulted in a scattering of the occurrences. The disseminated ore occurs both in place and as float over a distance of about $3/4$ mile, extending from the knoll (3530) in the east edge of sec. 1, T. 38 S., R. 9 W.

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Workings in the slide area on claim No. 4 consist of an excavation 120 by 150 feet across. Considerable crushed talcy serpentine and soil are mixed with the blocky dunite in the slide. The main zone of disseminated chromite is 8 to 10 feet wide and is exposed to a depth of 12 feet in the face of the cut. The other zone is about 6 feet wide and lies 30 feet west of the larger zone. The zones trend about N. 40° E. (downhill).

The two zones of disseminated chromite are exposed in the left branch of the road leading down to the slide workings and also cross the main road at a point about 200 yards to the southwest.

The largest exposure of disseminated chromite is in the main open cut on claim No. 7. The cut is about 75 feet wide and has a face 60 feet high. Banded disseminated chromite is exposed at various places in the cut. The largest body of disseminated ore exposed near the center of the face measures approximately 12 feet thick and 30 feet long. Banding is not distinct but the body appears to strike roughly north and dip gently east. Estimated chromite content of the larger body is between 20 and 50 percent.

Report by: Len Ramp - 1959.

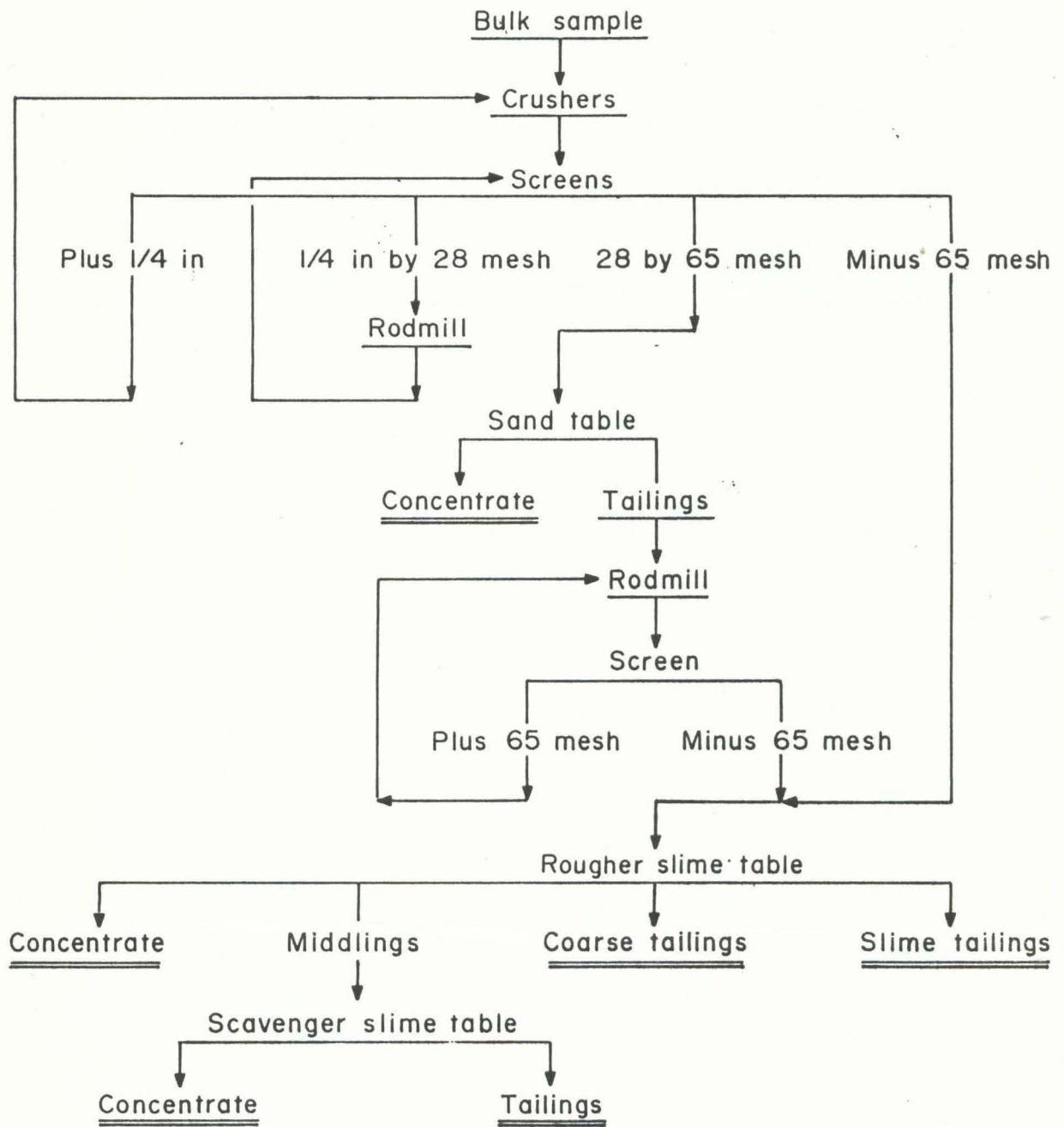


FIGURE 1. - General beneficiation procedure used to concentrate the chromite samples.