CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO. .......... MO20022
RECORD TYPE .......... KIM
INFORMATION SOURCE ... 1
MAP CODE NO. OF REC. ..

REPORTER
NAME ....................... FERNS, MARK L. (BROOKS, HOWARD C.)
AFFILIATION ............... DOGMI
DATE ....................... 81 01

NAME AND LOCATION
DEPOSIT NAME ............... LUCKY DAY DO
COUNTRY CODE ............... US
COUNTRY NAME: UNITED STATES
STATE CODE ............... OR
STATE NAME: OREGON
COUNTY ..................... KLAMATH
DRAINAGE AREA ............. 18029001 CALIFORNIA
PHYSIOGRAPHIC PROV ...... 12 BASIN AND RANGE
LAND CLASSIFICATION ...... 41

QUAD SCALE QUAD NO OR NAME
1: 24000 CDX FLAT (1964)

LATITUDE LONGITUDE
42-19-44N 120-33-60W

UTM NORThING UTM EASTING UTM ZONE NO
4668960 700500 10

THP....... 037S
RANGE..... 018E
SECTION .. 26
MERIDIAN .. WILLAMETTE

COMMODITY INFORMATION
COMMODITIES PRESENT ...... U

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
POTENTIAL............
OCCURRENCE ........... U
EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
SECONDARY ENRICHMENT

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT........ SMALL

DESCRIPTION OF WORKINGS

SURFACE

COMMENTS (DESCRIPT. OF WORKINGS):
NUMEROUS PITS AND TRENCHES

PRODUCTION
NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS............ MID-PLIO
HOST ROCK TYPES.............. BASALT, TUFF, AND TUFF BRECCIAS

IMPORTANT ORE CONTROL/LOCUS.. CONTACT ZONES

LOCAL GEOLOGY

GEOLOGICAL PROCESSES OF CONCENTRATION OR ENRICHMENT:
SECONDARY ENRICHMENT

COMMENTS (GEOLOGY AND MINERALOGY):
SECONDARY URANIUM MINERALS OCCUR IN AND ABOVE THIN, VESICULAR BASALT FLOWS WHICH ARE INTERLAYERED WITH LAYERED TUFFS AND BRECCIAS.

GENERAL REFERENCES

Wednesday - Aug 17

Myers & Hammersley - Pic 1 et al.

6.4 mi
Sec. 35, T. 37 S., R. 18 E.

Sketch of main cist - looking due north.
Dimensions estimated - 50 feet deep from top of ridge to floor of cist - 120 feet long at base of ridge.
Toffee deep into ridge.

Weathered Basalt
Flow: Black veined

Reddish - angular zone
Floor upper surface

Tuffs - Ash - chertite - baked upper surface

Contains Common to abundant N.55° W. - dry 80° S.

Dirt, green, common, ash - tough, fracture - bleached - shatter - weather

Geology very similar to Tracy - Double 0 clay in
Volcanic ash top of lower veincite flows & bottom of ash &
tuffs - There appear to be more opal here than at
Tracy - No shiny slag - not as much furnace slag - and rock
are not nearly as bleached - On this trip no mineralization
seen.
Big Enough Group - 8 claims - Hole by location
Jack Sehnad, John Scott, Stan Bennett - Kenny Robertson -

Claims are in SE1/4 sec 32 and SW1/4 sec 33, T. 37 S., R. 18 E.

Dugay Cut on south flank of ridge looking NNE into Weyman Arch -

Tufa - Older Tuffa - near top with a very thin veneer of clay;
Tuffa - Attraction zone where tuffa is cut off and covered with clay - clay zone appears to be 3 feet wider - entirely alabaster clay -

Secondary or mineral - apple green - Tuberinite?
Fluorescent occurs on fracture in the light gray - iron-stained tuffa - white calcite veins - need to study gray appear associated with the U test -

Before - U later - tuffa - XL tuff highly fractured -

The minerals occur in a hard Red Breccia -
Tuesday - Aug 11 - 1959

At Lucky Day 00 -

With Phillip mapping the large Bullfrog Cut that have been dug (B-8) to explore the secondary minerals.

Cut A -

Trends N 10 W

Approx dimensions -

75 feet long
15 feet wide
15 feet deep - max.

The rocks exposed are ashy tuffa with occasional thin capillary tuff beds that serve as markers. The beds strike N 80° E and dip 12° to 15° N away from the small nephelite plug.

These ashy tuffa lie on top of an irregular surface of vesicular basalt - flecked and altered. The tuff in the cut are
10 to 15' thick and the basket with the base not exposed is assumed to be only a few feet.

Prominent shear zones in the cut strike N15°E vertical, N25°W vertical.

The N15°E shear appears to be a passageway for clay bearing solutions. Shears read very high. The shears are narrow iron-stained gouge 1" wide - a few to 6" wide.

Where the cut the tuffs - they are not as clean. The tuffs are jointed and fractured in several directions N15°E, N40°E, N80°E, N15°W.

See sketch opposite.

Where mineralized the Breccia has been bleached almost white.
Tuesday - Aug 7th - Lucky Day 00

Check with Nevada Thermal Power Co. at 8:00 A.M. -
Mr. Djaic. From 420 to 620 feet they were in trouble losing circulation. Attempts to seal off using said dust - chopped cellophane were not successful -
I checked samples to 420 feet and they were still in lake bed - gravels rounded pebbles, etc. No return from 420 to 620 feet.
By Tuesday P.M. they were closing down - no drilling at 7:00 P.M.

Checked with Don Tracy on the Lucky Day 00 and found them exposing secondary uranium minerals both canary yellow and apple green.

Took samples to Phil Wein and got Phil to come over.
To look at the prospect with me - uncommitted - ashy tufts overlying the basalt flows - apparently solution can proceed though the basalt have trapped at the contact of the ashy tufts and secondary minerals are the result.

Will see the Prospect again on Wednesday.
White King

Lucky Day 00

Afternoon around to the
Thomas Creek side to Don
Tracy's claims. He has
started a new hole along the
road and uncovered a
small fault zone - apparent
displacement about 2 feet
within the ashy tuff -
in the fault about 5' to 3'
perlitic, pumiceous coarse
stuff, like a dike (?)
see sketch on other side.

In the shear and out in
the tuff for a distance
of 3 feet on each side
and visible uranium minerals
in the ashy tuff - coat
fracture and disseminated
Hole is about 4' x 4' by about 15' deep - at the bottom of hole looking to the south.  

Secondary Marian mineral + 3' either side of hole - sample for check on radioactive layer.
In this cut you get the idea that there is a thing larger in ashly stuff between the bas flows.

Ashly tuff - 3 1/2 to 15 tin.

Fault zone zag.

Trend N70E dip steep.

Faults shown by Aspen trees.

Show N45°W
N80°E
Myers + Hammersley Claims
Bulldozer Cut - 20' deep

*mineral*

Cross section looking west
May 12 - With Don Tracy
check claims & kiers
Hollas on Thomas Creek

See separate sheet for
logs on Lucky May 30

In Cordova Cuts - expose
thin shaly beds on top of thin
basalt flow on top of

thin shaly beds

vesicular lava flows
baked & altered
with secondary

U minerals - in fact
On Topper - Bulldogger Ext
Looking N75W - bed of ash tuff strike N55E and dip #4 West.
QUALITATIVE SPECTROGRAPHIC ANALYSIS
(Quantities estimated to nearest power of ten)

1. Elements present in concentrations over 10%
   Silicon

2. Elements present in concentrations 10% to 1%
   Iron, uranium

3. Elements present in concentrations 1% to 0.1%
   Potassium, cobalt, arsenic

4. Elements present in concentrations 0.1% to 0.01%
   Aluminum, magnesium, calcium, sodium, titanium

5. Elements present in concentrations 0.01% to 0.001%
   Manganese, vanadium, silver, barium, boron

6. Elements present in concentrations below 0.001%
   Chromium, copper, strontium, nickel

Radioactivity Present
Mercury Nil

Note: This sample very hard to read.

Thomas C. Matthews, Spectroscopist