60001964

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud - Log for drill hole RS-459
AUTHOR	Muerhoff C
DATE OF DOC(S)	1999
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7½'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine
COMMODITY If not obvious	gold, silver
NOTES	Handwritten log for drill hole RS-459; stereogram; geology; correspondence 6 p.

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS: DP 9/11/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

CHARLIE MUERHOFF
RS-459

60001964 4010

RS-459 0-265 massive (w/ subtle foliation) weak-mod porphyritic w/ clay-alt plag (some glomeroporphyritic) + rounded → fragmented qtz + green (chlorite-replaced?) vitreous feldspar phenos (relic sanidine?) + lesser hematized relic biotite. Overall 'grainy' textured. — RQL.

0-15 oxidized - hematitic/limonitic w/ residual silicification.

15-35 strongly bleached w/ residual silicification. has a 'leached' appearance that strongly resembles an ash flow.

35-70 s.a.a. except only lesser, spotty silicification. Limonitic on frag surfaces.

70-85 same as 15-35, only no silicification; increasingly argillic.

85-100 mottled (hem>>arg) 'grainy' textured. lesser plag + sanidine

100-170 bleached/arg frags >> hem-arg mottled frags. A few scattered silicified frags. weakly limonitic

170-185 hem > bleaching

185-250 bleaching > hem (wkly silicified?). becomes more massive & finer grained w/ lesser phenos & increasing fg biotite. grades to 1/2 bleached, 1/2 hem downhole. Minor goethite on frag surfaces. Don't see many qtz phenos, but still looks like the same unit. clayey @ 245-250.

250-265 oxidized, clay-rich (incl. white clays), limonitic. could be fault; more likely, an altered contact?

265-320 Bud-like volcanic bxa

265-285 white argillized amorphous clasts in green vitreous-looking devitrified matrix. abundant whitish-clear → clear/grey qtz frags (some coated w/ med-gr subhedral py + qtz-py stkwked bxa frags + diss py. clay-rich, especially 275-285.

285-290 s.a.a., except << clay & brown vitreous-looking matrix. abund qtz+py

290-295 mixed bleached & limonitic bxa frags. Abund grey qtz+py frags & stkwk.

295-320 same as 285-290, minor → mod white clay. lesser qtz+py frags downhole, but still fairly abundant, but bxa is often silicified / silica-flooded.

RS-459

320-340 continuation of unit above? Qtz-py stkwk/vein zone w/ mod silicified relic bxa frags.

340-415 gray qtz-py stkwked porphyry w/ relic clay-altered plag, mod-str silicification w/ abund fg diss py. silicification overprinting bleaching. silicification waning 360'-385, but m frags persist.

385-405 porphyry is brown & vitreous looking. mod-locally str silicified w/ qtz frags + qtz stkwk & abund fg → med gr pyrite. Though rare, relic plag persist

395-405 mod white clay & greenish clay (gouge?)

405-415 spotty silicification w/ qtz-py stkwk

Tc?

415-505 vfg massive, weakly porphyritic w/ clay-altered plag + sanidine (& clay-altered biotite?) weakly silicified → overprinting bleaching / hem

@ 445 grades into monolithic vlc bxa w/ clear qtz + py stkwk

450-460 bleached, w/ clay " " " " "

460-470 silicification overprinting hem. some str prop → arg frags. minor white clay

470-495 " " prop → arg. qtz-py stkwk.

495-505 str argillic; no sil.

505-590 wk-mod hem massive porphyritic (weak) flow w/ intermittent bxa @ top of interval. hem hornblende + biotite. did not see any plag. occassional frags are prop → bleached.

@ 575 becomes massive, w/ some frags pervasively silicified. some frags have abund mafics, but no plag phenos.

590-600 epiclastic (?) bxa white clasts in strongly hem matrix. silicified. (sandy matrix appearance may be due to alteration.)

600-670 hematized, massive, weakly porphyritic. hornblende + biotite, no plag. (→ a few vitreous feldspars) occassional frags of bxa from above.

grades into bxa (autobxa?) @ 650±.

qtz-py frags + sil @ 665-670

670-700 flow bxa w/ arg clasts in hematized porphyritic (plag + vitreous feld) fragmental matrix. minor qtz-py stkwk. Clasts often contain fg hem (replacing hornblende & biotite?)

RS-459

700-710 heterolithic epiclastic bxa. hematized matrix

710-740 volcanic(?) bxa. argillized massive clasts & devitrified white clasts (w/ hem biotite) in strongly hematized 'grainy' porphyritic(?) fragmental matrix. Abundant clasts w/ no matrix material. Could be epiclastic, but I don't think so.

740-750 bleached → arg & prop volcanic(?) bxa w/ white massive clasts & prop porphyritic clasts. minor grey qtz + py frags.

750-755 a single lump of white → greenish white clay w/ few rock frags. – fault.

755-895 heterolithic bxa. prop @ upper contact, then hem. a few frags show crude foliation. sporadic silicification.

@ 860 begin to pick up greenish-white clay.

* Can't tell if this is epiclastic or volcanic. Possibly starts out as an epiclastic bxa & grades into vlc bxa ~ 860? (start to see phenos in matrix)

by 885 clearly volcanic

895-910 prop → bleached devitrified flow / flow bxa w/ sporadic sil

Is this White Alps?

910-920 qtz-py veinzone w/ frags of silica-replaced porphyry (relic plag) bxa

920-985 volc flow bxa w/ white massive aphyric → v. weakly porphyritic clasts in bleached → hem matrix. silica-flooded or silica-replaced. qtz-py vein frags continue. Silicification waning past 935, but still persists intermittently. nil by end of interval.

985-1030 TC bxa w/ gray mafic-rich clasts (hom + bio → hem) in a 'grainy' to fragmental hem matrix. * This looks like the bxa marker unit I've been correlating @ White Alps. → @ the top of holes 405 & 450.

1030-1040 TC bxa w/ white massive aphyric clasts in bleached → hem matrix. diss py.

1040-1055 same as 985-1030, except clasts contain relic(?) vitreous feldspars ± sanidine?

1055-1065 same as 1030-1040

RS-459

1065-1080 same as 1040-1055, except matrix more 'grainy' textured

1080-1085 same as 1030-1040

1085-1200 so far clasts of both interbedded units described starting @ 985
a few qtz frags. Matrix becomes increasingly "grainy" & hematized
w/ depth. I think the entire sequence from 985 on down is
volcanic & not epiclastic, but I'm open to suggestions.

Kurt,

Here's a copy of my log for RS-459. It looks to me like we're still in Tc. As a matter of fact, the bxa's I see in this hole @ 1000-1200' appear to be the same bxa's that I saw at the top of 97-405 & RS-450 (i.e., 1000 vertical feet difference)!

both on the HW → A couple of great looking vein/stkwk zones; no marcasite, just pyrite. But this is without a doubt the best looking hole NW of the deposit that I've seen.

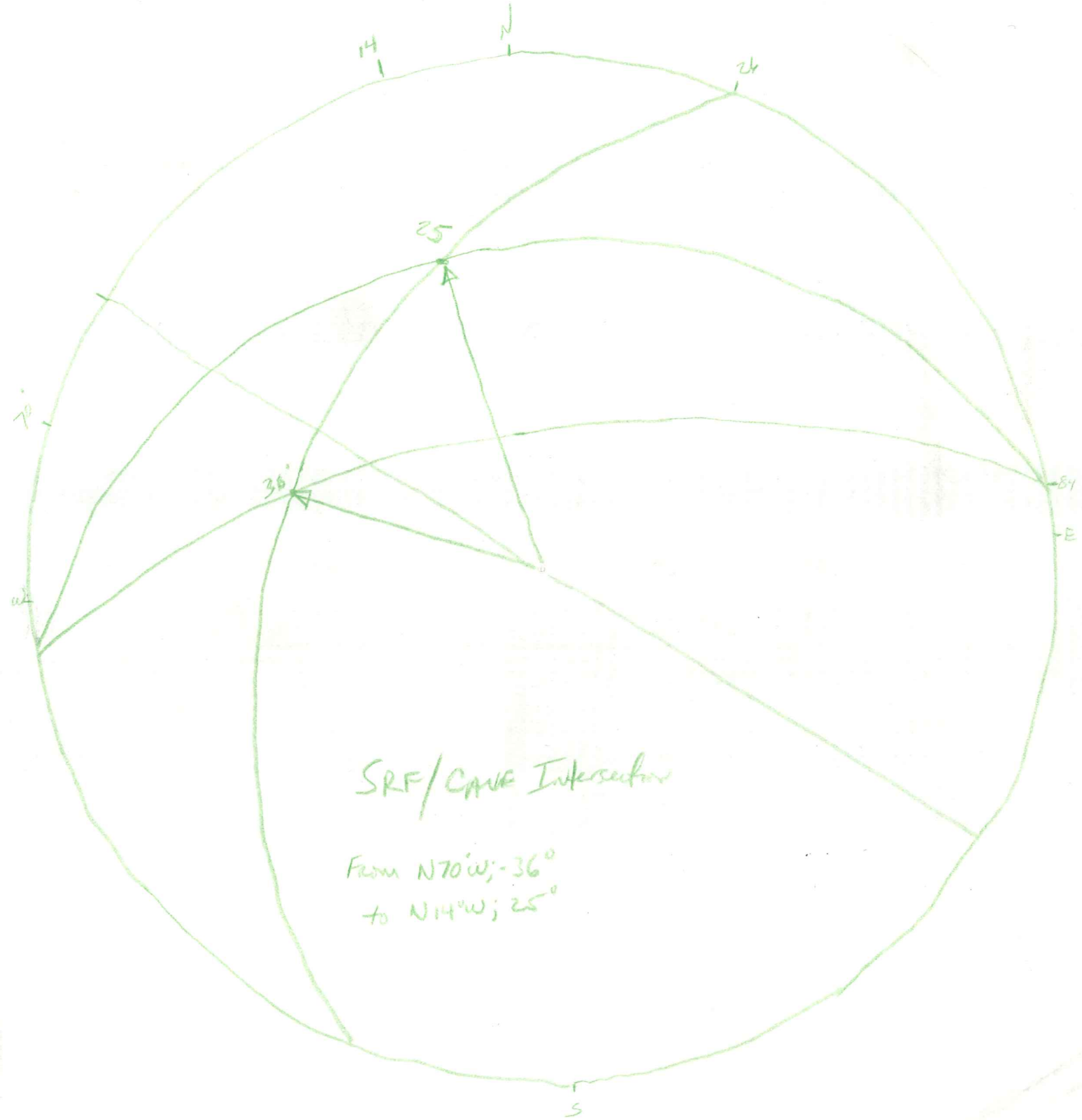
I didn't get time to plot this on section. Sorry. I talked to Randy this evening & the hole is ~100 ft away from where we thought it was. He has the coordinates so you can plot it on the proper section.

Randy has a copy of my quick log.

I still think we should tag the top of Dozer, depending on the alteration.

Call me @ the office if you have any questions.

Charlie


N
14
24
25
36°
84
E
S
SRF/CAVE Intersection
From N70°W; -36°
to N14°W; 25°