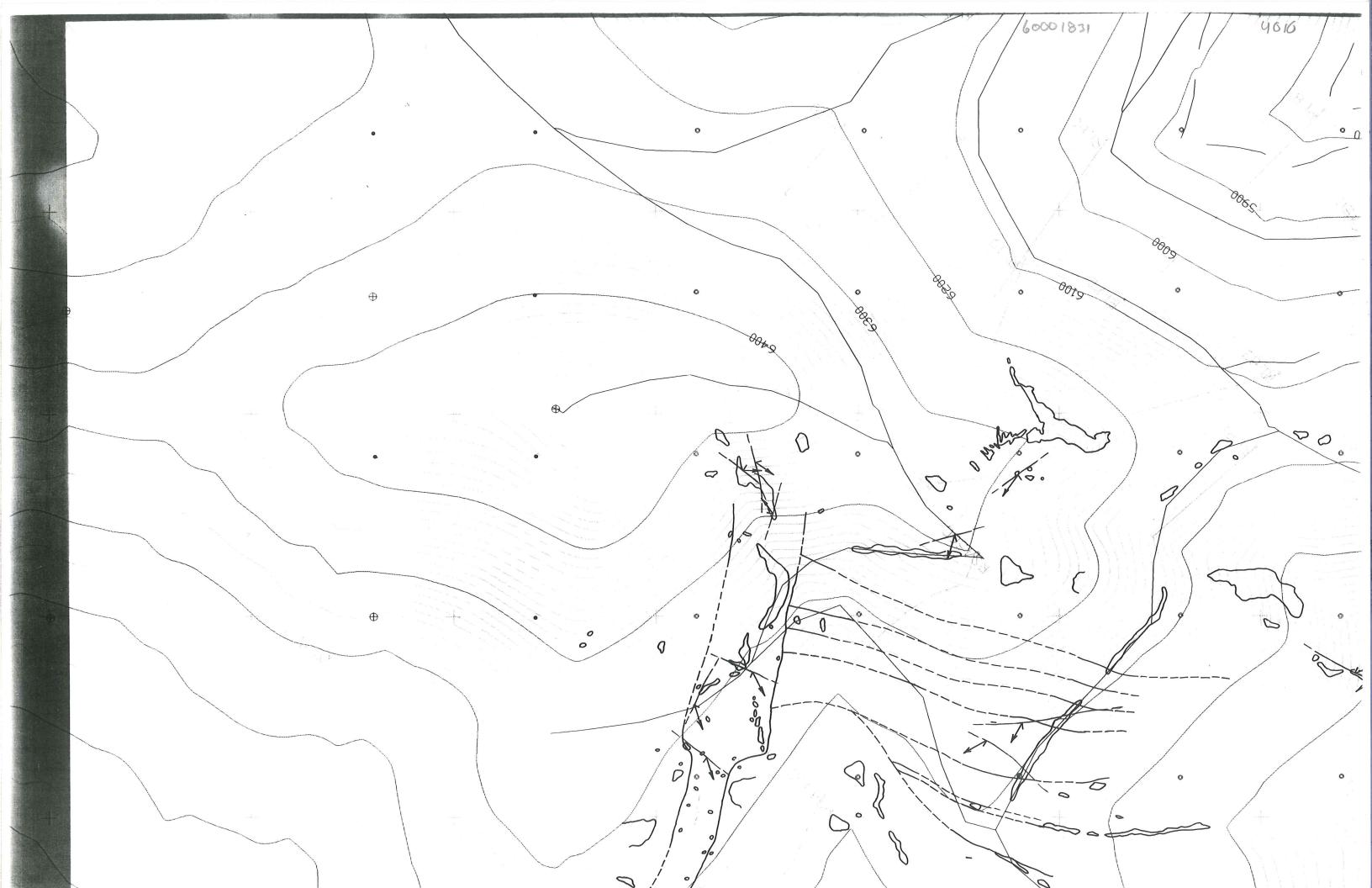
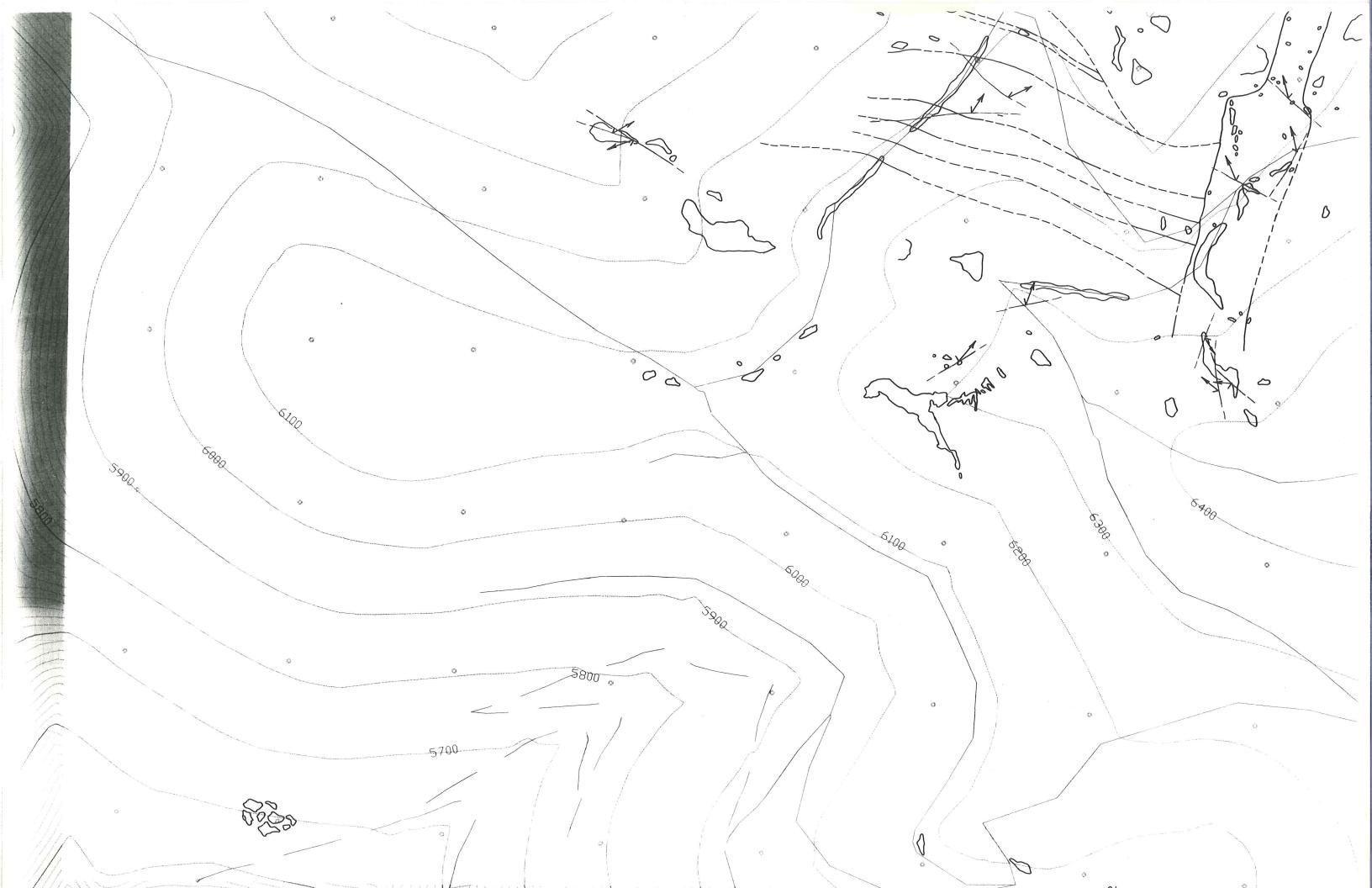
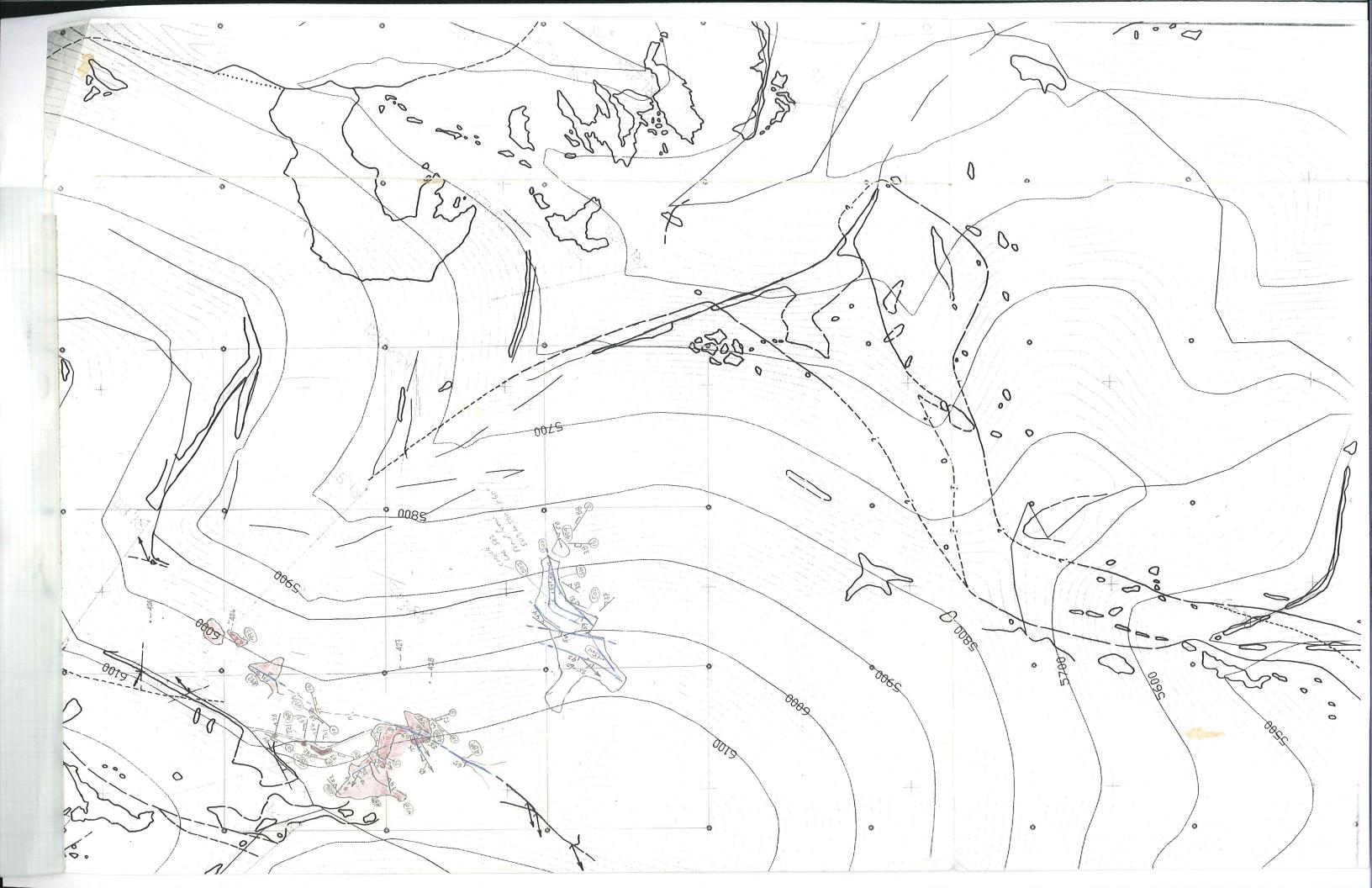
DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Roschud - Short Shot-White Alps Field Short
AUTHOR	Vauce R; Mitchell, P.; Langsteff, G
DATE OF DOC(S)	1998
MULTI_DIST Y / (17)	
Additional Dist_Nos:	
QUAD_NAME	Sulphur /E
P_M_C_NAME (mine, claim & company names)	Roschad Minc Newwort Gold Co. White Alps; Short Shot; Rosebud Mining Co LCC
COMMODITY If not obvious	gold, silver
NOTES	Field Sheets: goologic maps; Correspondence; projectly summary; geology; geochemistry hardwritten notes
	NOTE: Many aneclays
	53p. loversized plate
Keep docs at about 250 pages i (for every 1 oversized page (>17) the amount of pages by ~25)	1x17) with text reduce DB: Initials Date
Revised: 1/22/08	SCANNED:

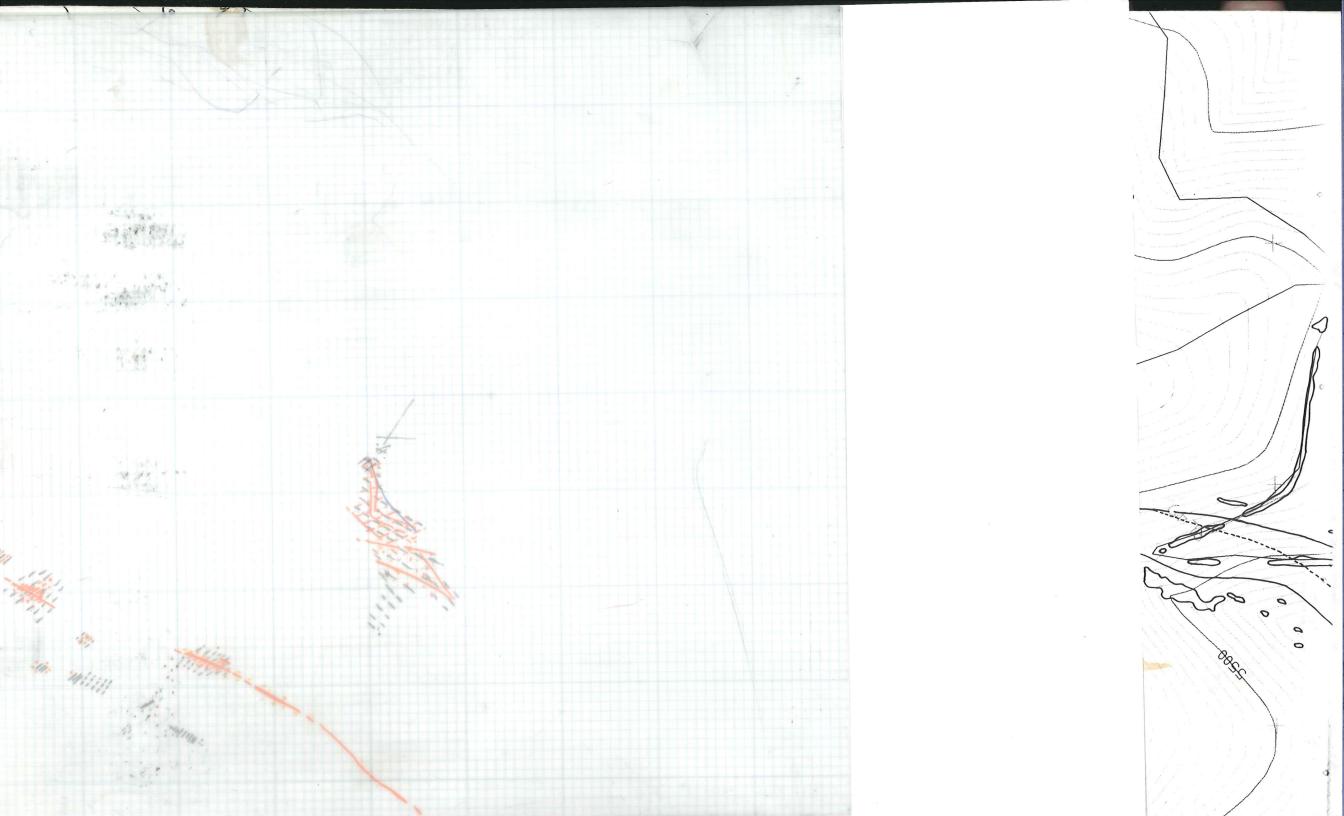
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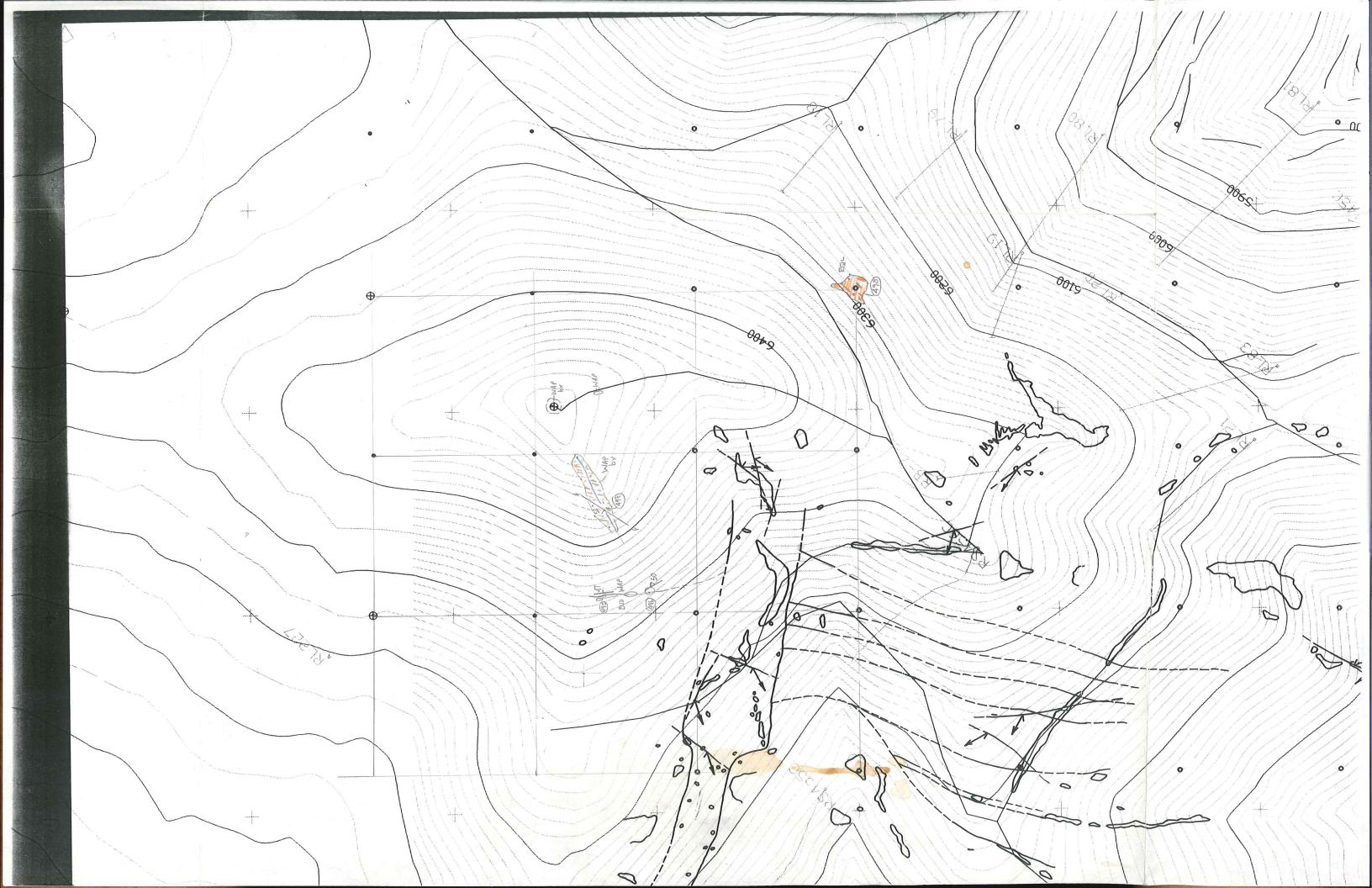
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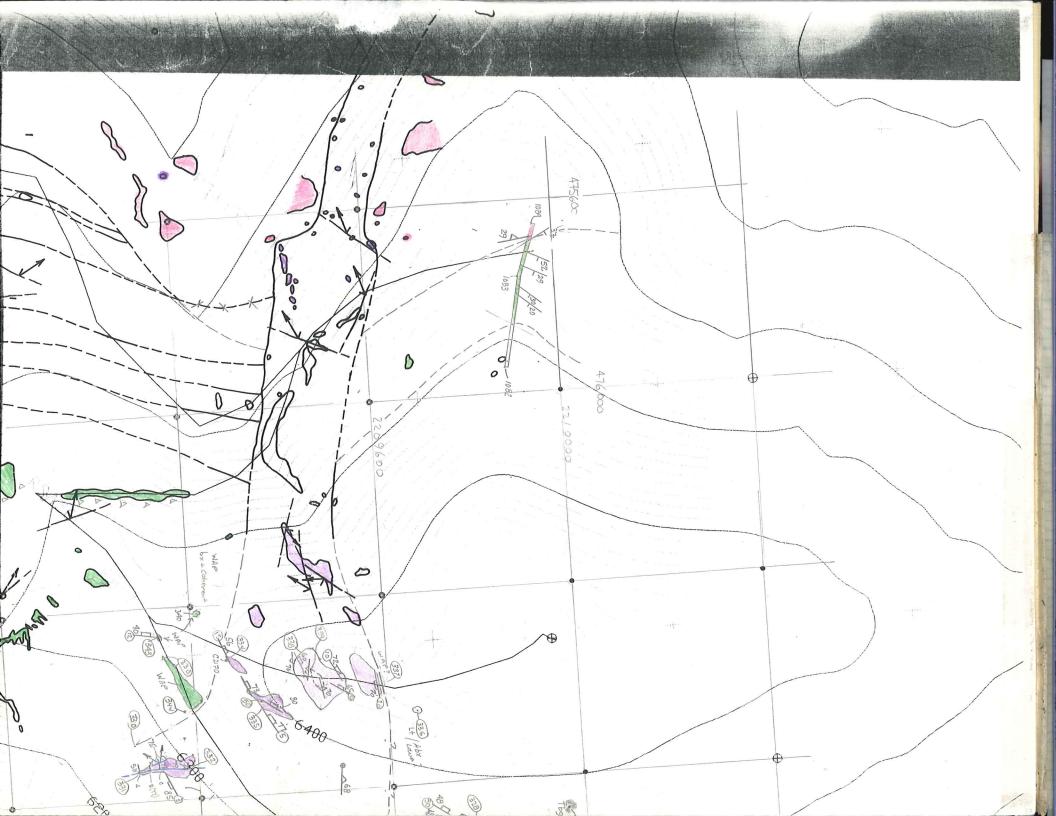


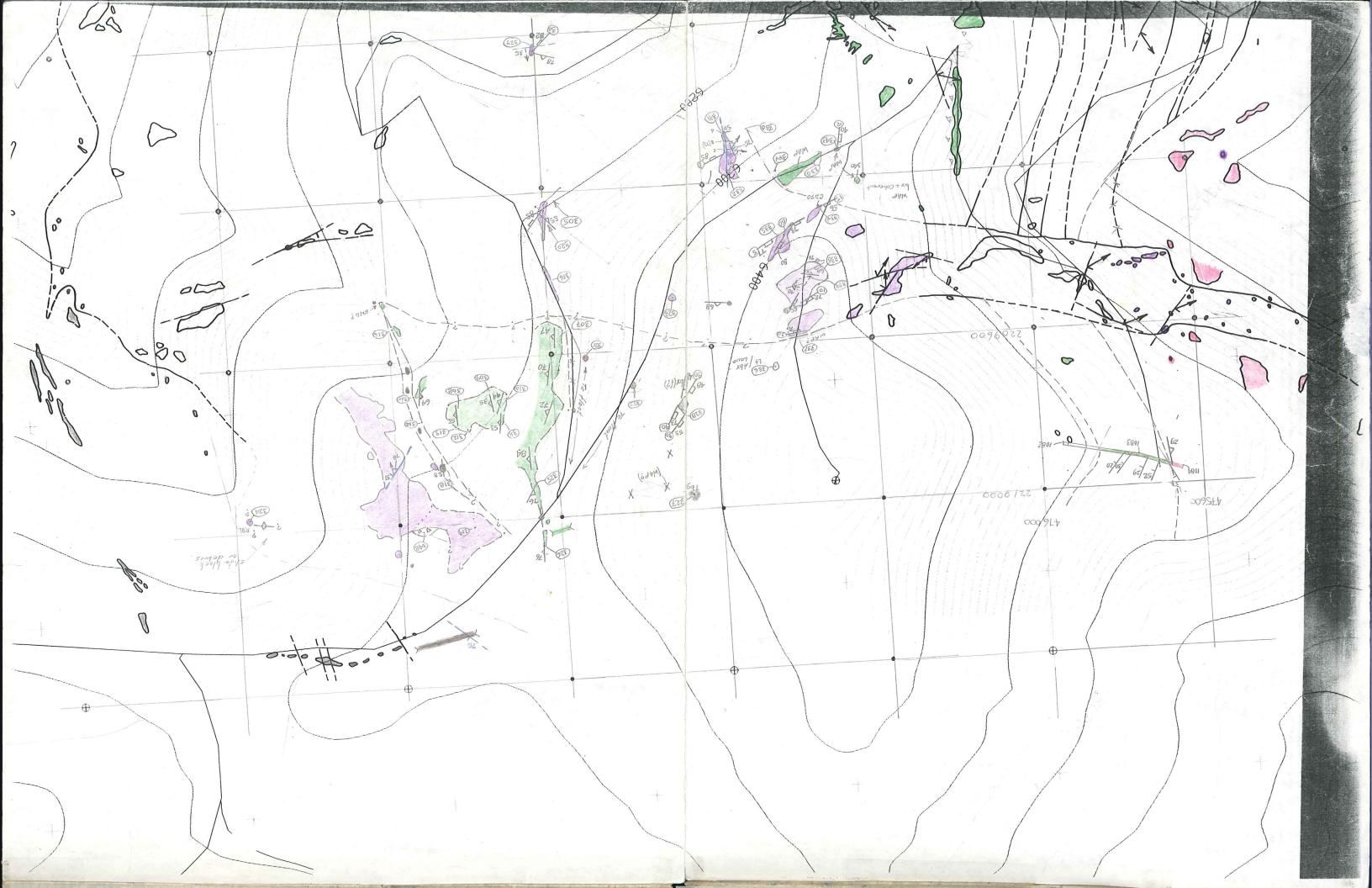


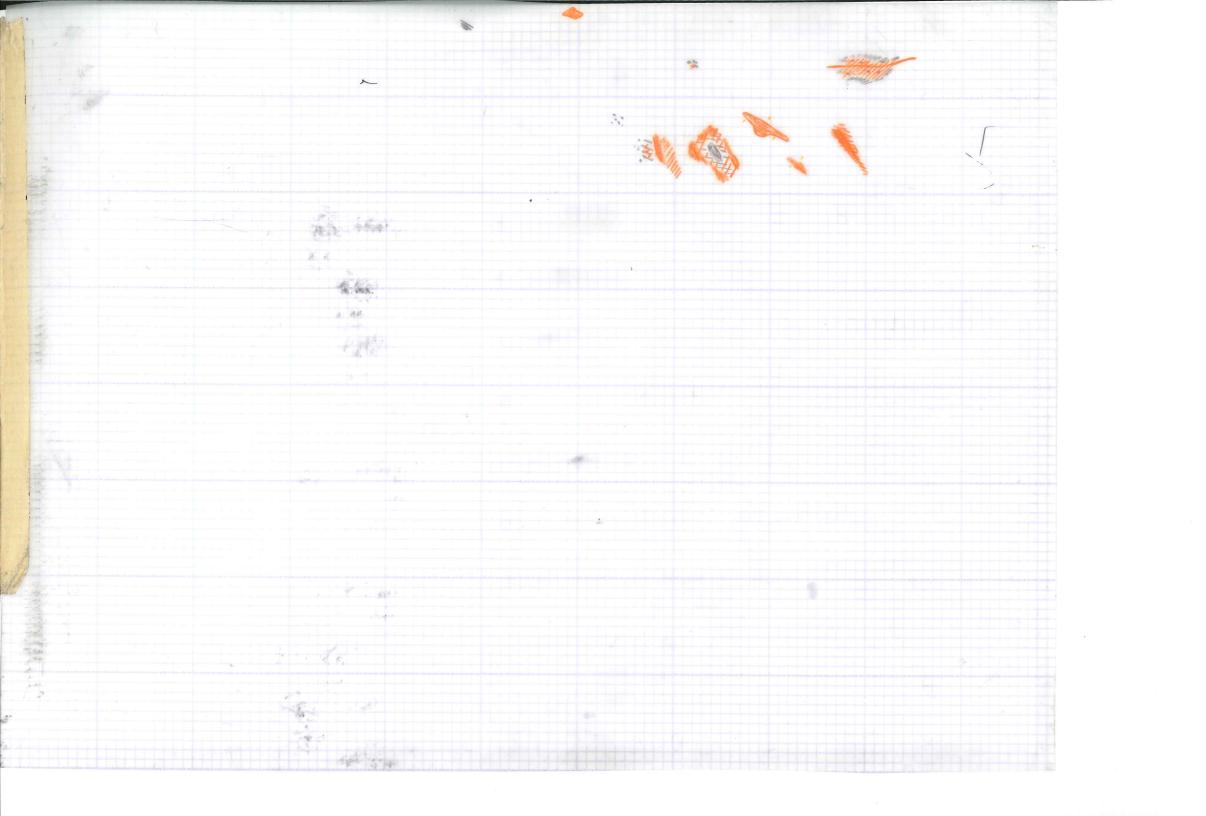










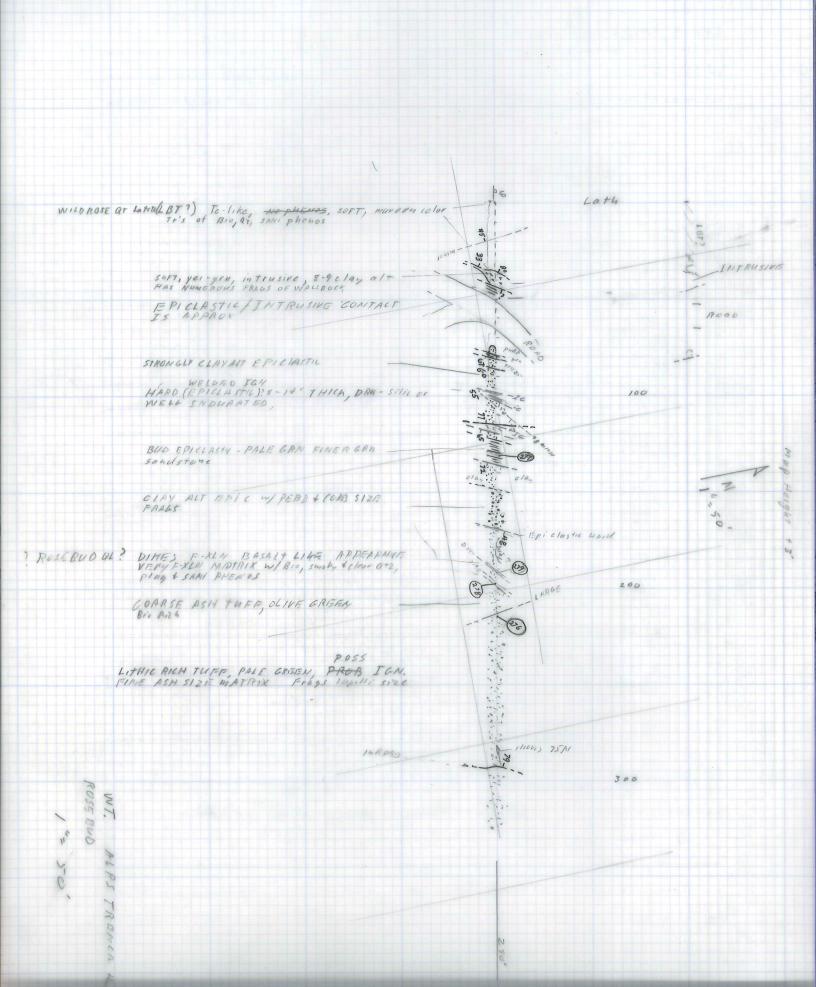


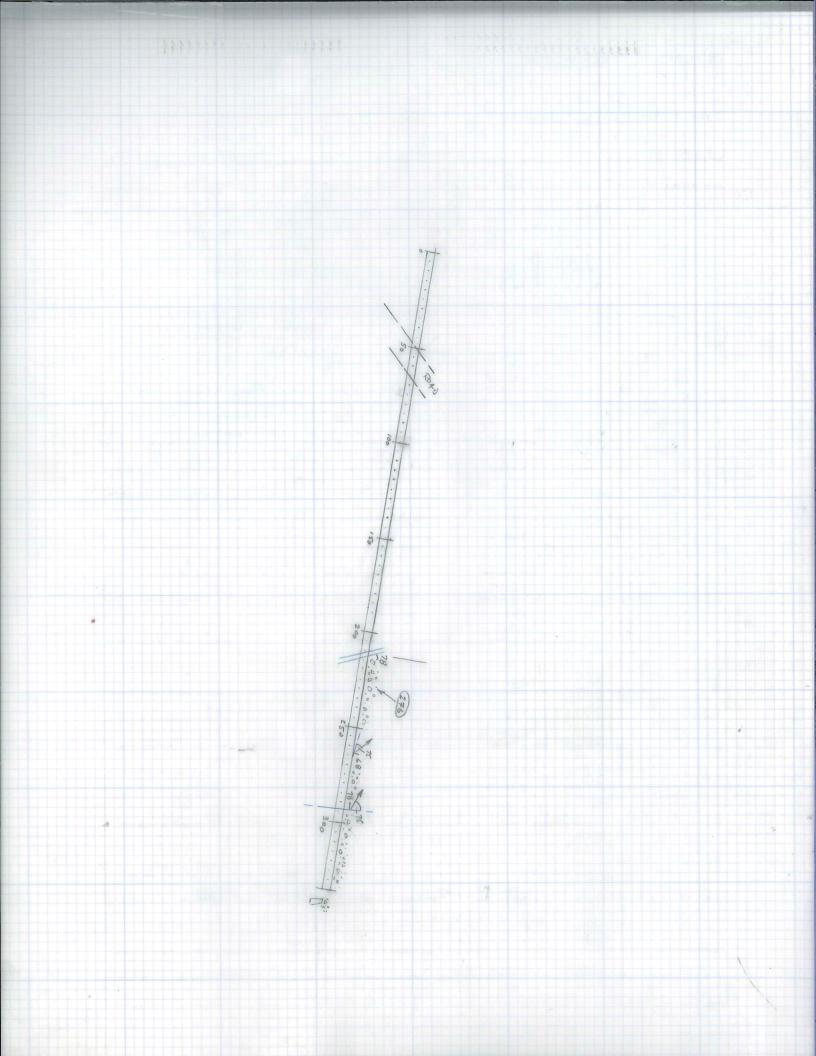
ROSEBUD STRATIGRAPHY

GROUP	FORMATION	MEMBER	COMPOSITION
		ALLUVIUM, ELUVIUM FANGLOMERATE, COLLUVIUM, TALUS	
LOWER SULFUR GROUP		CAMEL CONGLOMERATE	
		LACUSTRINE DEPOSITS	?
		KAMMA "ANDESITE"	?
		ROSEBUD QUARTZ LATITE	Trachydacite
		BAGER MEMBER	
		CHOCOLATE LAPILLI TUFF	?
		CHOCOLATE LAVAS	
	CHOCOLATE FORMATION	ROSEBUD MEMBER	Trachydacite
		SOUTH RIDGE LAVAS	
		BUD MEMBER	Rhyolite
KAMMA MOUNTAINS VOLCANIC		WILD ROSE MEMBER	Alkali Rhyolite
GROUP		LBT LAVAS	Trachydacite
		MINE TOS	?
	DOZER FORMATION		Alkali Rhyolite
	OSCAR FORMATION	TCS	
		OSCAR "ANDESITE"	?
		OSCAR MEMBER	?
	BARREL SPRINGS	BARREL SPRINGS MEMBER	Rhyolite
	FORMATION	RABBITHOLE RIDGE MEMBER	Rhyodacite
AULD LANG SYNE GROUP	UNDIFFE		

 Table 1. South Ridge stratigraphy.

Formation	Unit	Composition	Mode of Emplacement
		Alkali Granite	Dome
Chocolate	Badger		Lacustrine and terrestrial volcaniclastic deposits
	Chocolate Peak Alkali Granite	Alkali Rhyolite	Lava flow
	Rosebud Quartz Latite	Quartz Latite	Lava flow and intrusion
			Volcaniclastic and pyroclastic deposits
		Obsidian to cryptocrystalline trachyte	Lava flow
		Trachyte	
		Spherulitic trachyte	Lava flow
		-	Lacustrine volcaniclastic deposits
			Lahar
		Alkali Granite	Talus breccia
		Alkali Granite	Dome
		Trachyte	Lava flow
		,	Lacustrine volcaniclastic deposits
		Trachyte	Lava flow
		Lithic-rich, crystal- and pumice-poor trachyte ignimbrite	Ash flow
			Collapse breccia
		Moderately welded trachyte ignimbrite	Ash flow
			Volcaniclastic deposits
	\$ ⁶	Moderately welded trachyte ignimbrite	Ash flow
			Volcaniclasic deposits
	Wild Rose Trachyte	Spherulitic trachyte	Lava flow
		Weakly porphyritic trachyte	
		Tuffaceous sandstone and siltstone	Tuffaceous siltstone
			Coarse-grained tuffaceous sandstone
		Aphyric alkali granite	Lacustrine(?) Talus breccia
Dozer		Aphyric alkali granite	Auto breccia
	Dozer	Aphyric alkali granite	Dome
Oscar	Oscar Andesite	Trachyte	Lava flow
TCS			Lahar

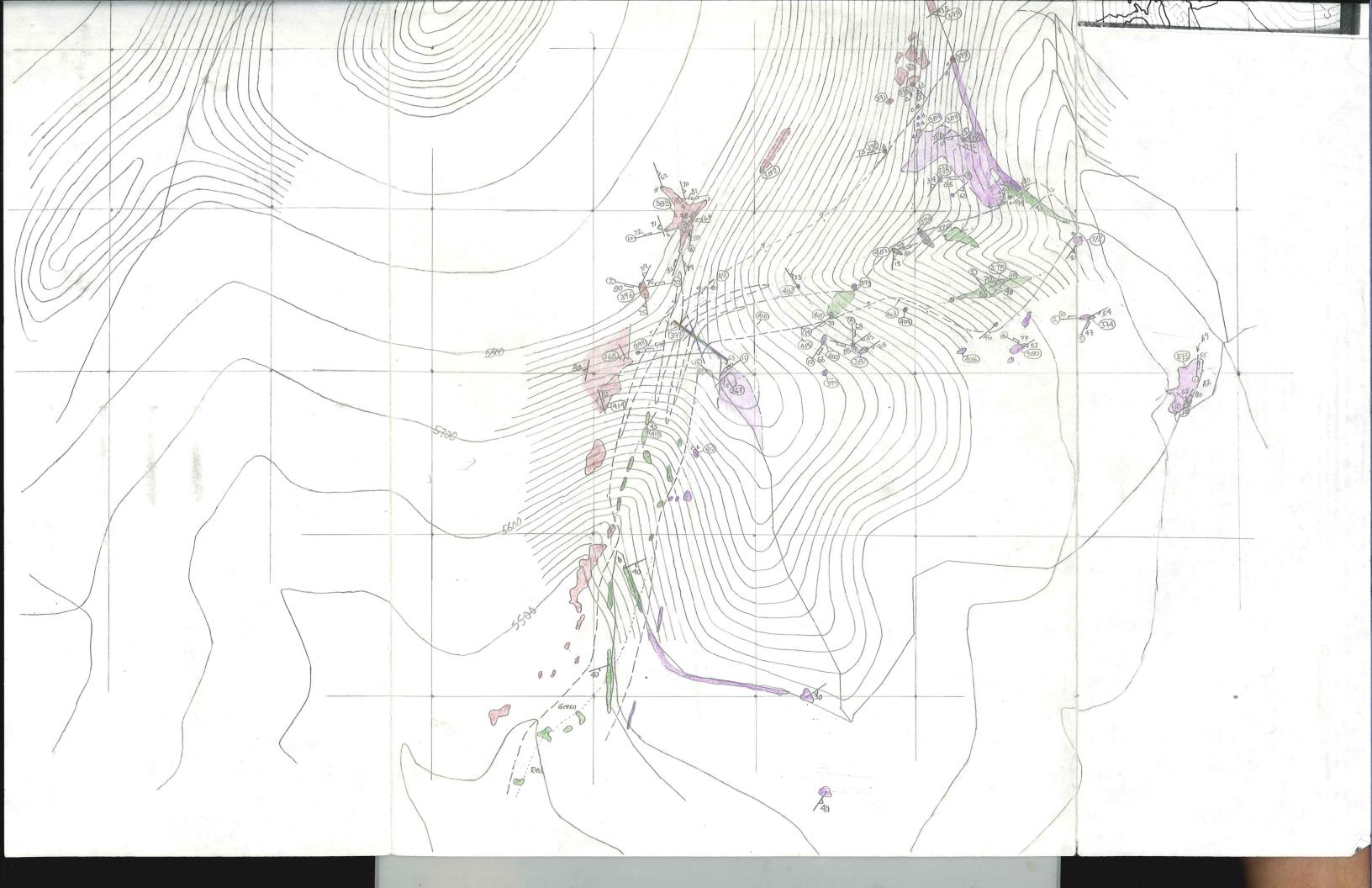


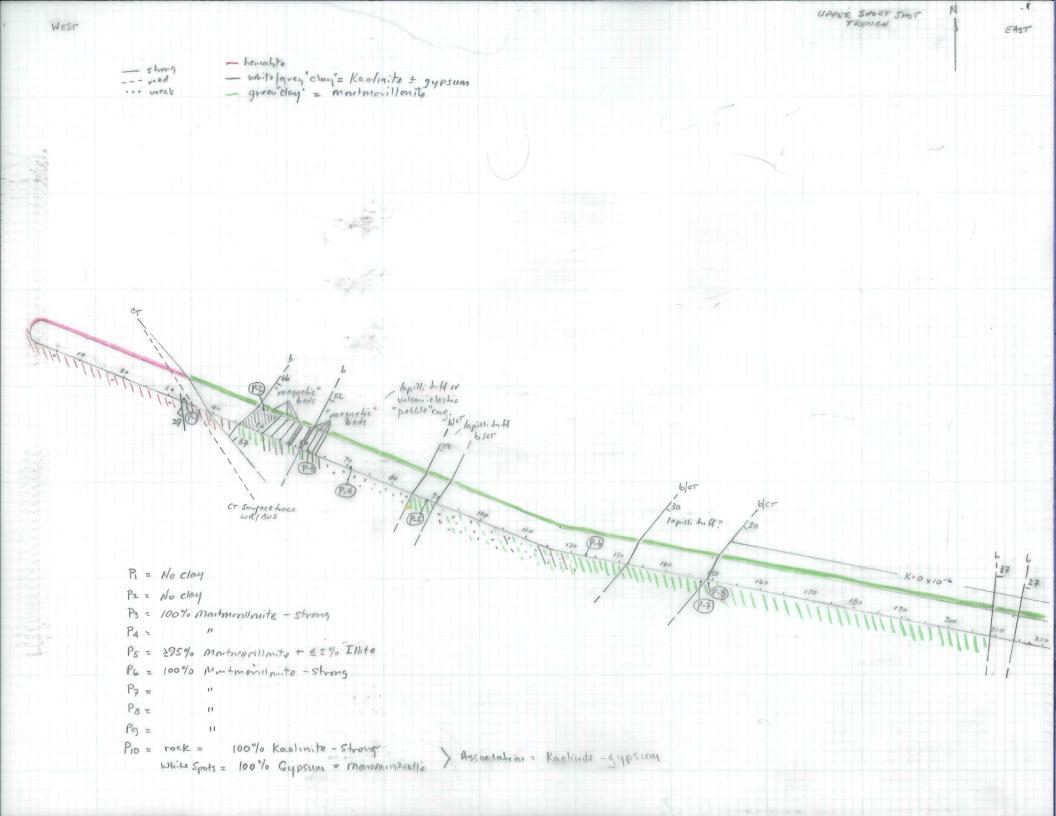


HILE NO. R5-406	JR contact 1668'	Surveyed Depth Incl. 1626.5'@1650 70°	Vait Depth 1643'	Elex of Collar 5381	Bler of JE 3738
RS-408	2257 '	1993'e 2000' 83°	2248'	5464	3216
RS-424	2286′	2146.5'e2250' 77°	2.182	5450	3268
R5-423	22 14	2025,5'@2200' 67°	2038′	5356	331 _. 8
RS-421	1664	1634,5 'e 1650 ' 76°	1648′	<i>528</i> 0	3632
R5-425	2395'	2396 / e 2400 86°	2391	5650	32 <i>5</i> 9
R5-407	1415'	none ~90°	1410'	5177	3767
R5-410	1118	1099 €1100 86°	1117	5347	4230
RS-415	968	949 e 950' 87°	967'	5309	4342
RS-418	1040	999 @ 1000 88°	1039	5328	4289
R5-401	2365	2247.5'e 2.250' 88°	2362	5710	3348
R5-446	3026	2997.6 e 3000′ 88°	3024	6110	3086
RS-448	1105	1095,1 €. 1100' 84°	1100	5335	4235
RS-449	1047	999,5@ 1000' 87°	1046	5655	4309
R5-451	1165			5725	4560
R5-452	967	948 e 950' 84°	985	5345	4360









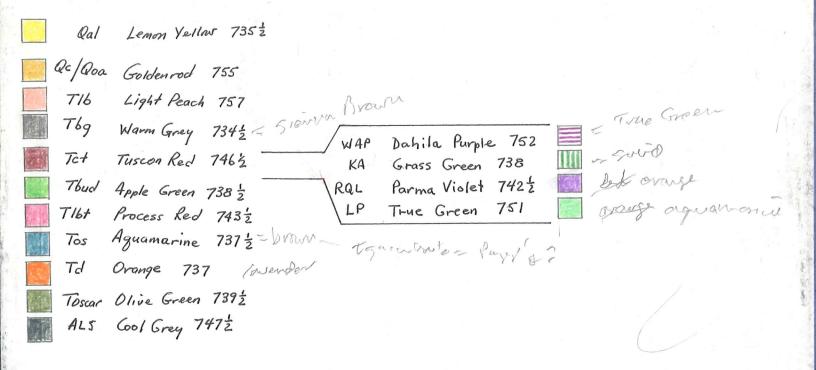
short month to be selve with the Deusey w Trench DI Dausey worded whywite lopill: toff DI-1 = PIMA SAMPLE Poorly welded rhyolitie laparli faft Kirt & Charle found founding O Feldspor Vitrophyre; 20% entedrol-Sulhidrel pl 21-2mm; no gtz, biotite = trace? Strong green clay allero fin @ 150' statu = 0; @ 153' statu = 45 & ROL (DI-6 (45 -> grown clay. slag - white clay, Sou -RQL -> white day, mx Poorly to mod. werded tracky dacite lapsili to black truff up glossy por no gite or savidine, reve plog arica phenos., strong pale green clay alteration (some = new). Max black = 16cm x size = 0.5 to 2.0 cm. that whits I green clay or his mnoz on contact + Im (go >> 1) dausely weised the clost supported, glassy mx, clost supported, branched Rhyolite lapall, buff, clost supported, glassy mx, clost supported, branching, clast size 22mm or 5 mm; & 1% Ott plane, 1-2% Sameline, moderate green + miner white clay, Sameline & frach. densely warded and so well all toff, clast supported, glassymx, frogs zimmte
25mm, v. poor sold, simulat clast & 2mm or 25mm
allow grosses by, weak, samidine = frost. (x 1-4mm) Denth we well of clost Supported, Frags 41 to 10 mm, minor me; 140 Otz phenos, variable less Supported to 1 mm; 1/0 conding, broken & Sam; mx -> proon chart; hags is green or white clay, Sanidus & Chy; weak alto, glassy mx., pourly sorted Lookin @ NE WALL D1-3 DI-3 = play vitrophyre = White Alps perphyry? -01-7 PINIA RESULTS D1-1 weak/moderato Koolinto Strong monteron linito DI-2 D1-3 moderate moderate DI-4 D1-5 Strong D1-6 missing Kaolinite Via RQL Strong D1-7 = > add Muoz & lan to treuch morp - V - 1 - 108 Mc 2/01 7 1 2

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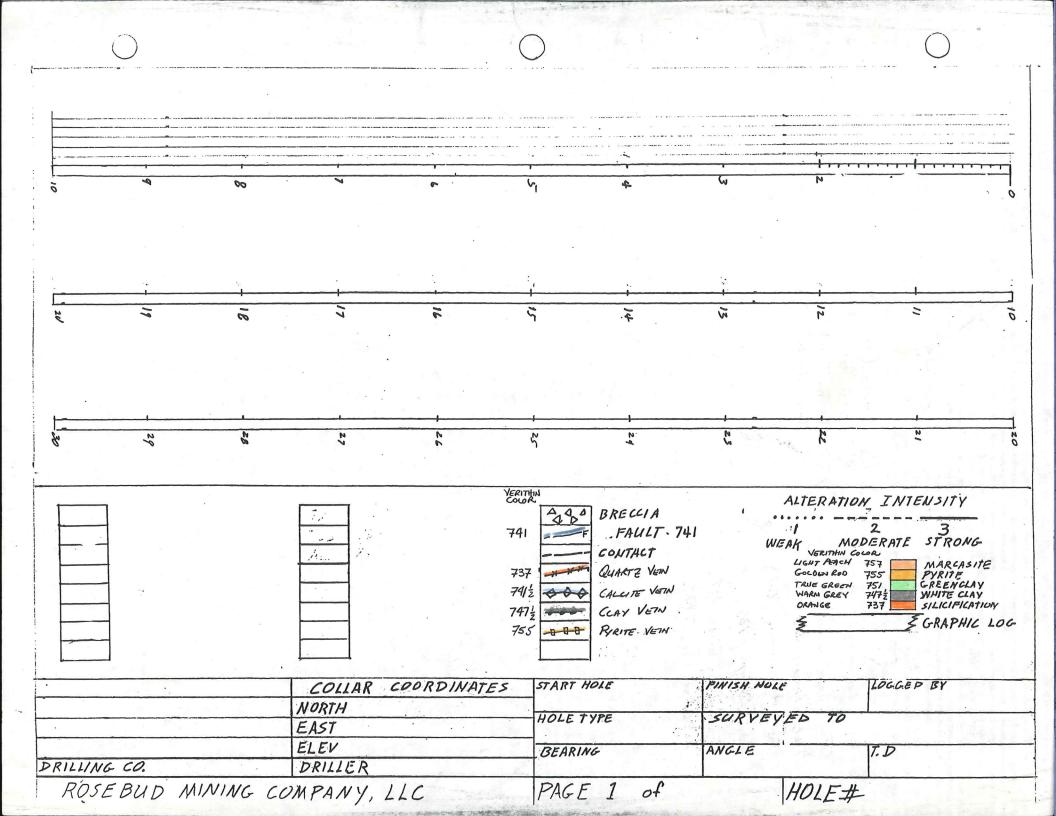
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	North	East	Elev.
1088	2210033	477182	6287.823 TRENCH
1087	2210044	477220.1	6281.22 TRENCH
1080	2208920	475396.7	6078.47 TRENCH
1079	2208912	475437	6082.256 TRENCH
1078	2208903	475471.2	6085.36 TRENCH
1086	2208506	476369.8	6183.344 TRENCH
1085	2208455	476473.5	6167.339 TRENCH
1077	2208848	475722.9	6133.958 TRENCH
1084	2209958	475648.4	6256.706 TRENCH
1083	2209924	475758.3	6262.477 TRENCH
1082	2209885	475944.4	6310.025 TRENCH
1090	2210311	477575.9	6227.789 TRENCH
1089	2210280	477441	6226.171 TRENCH

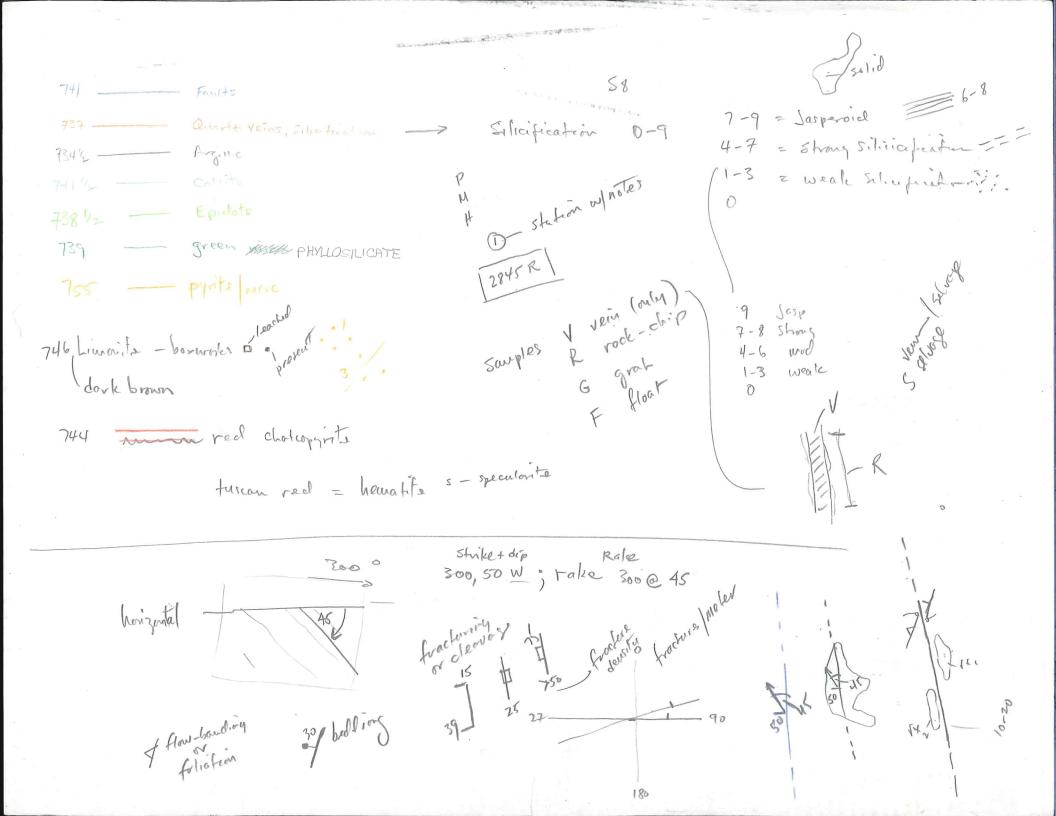
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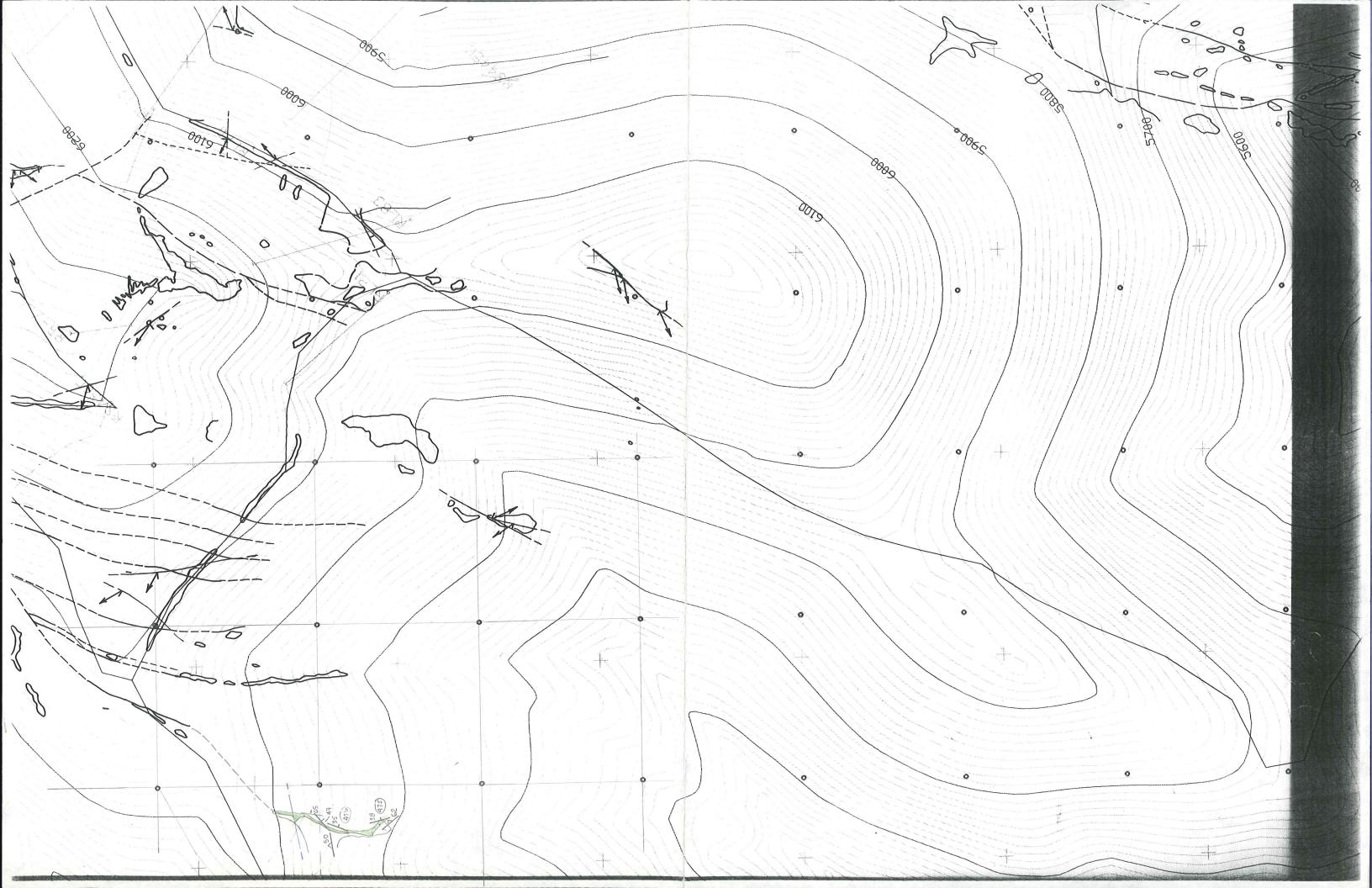
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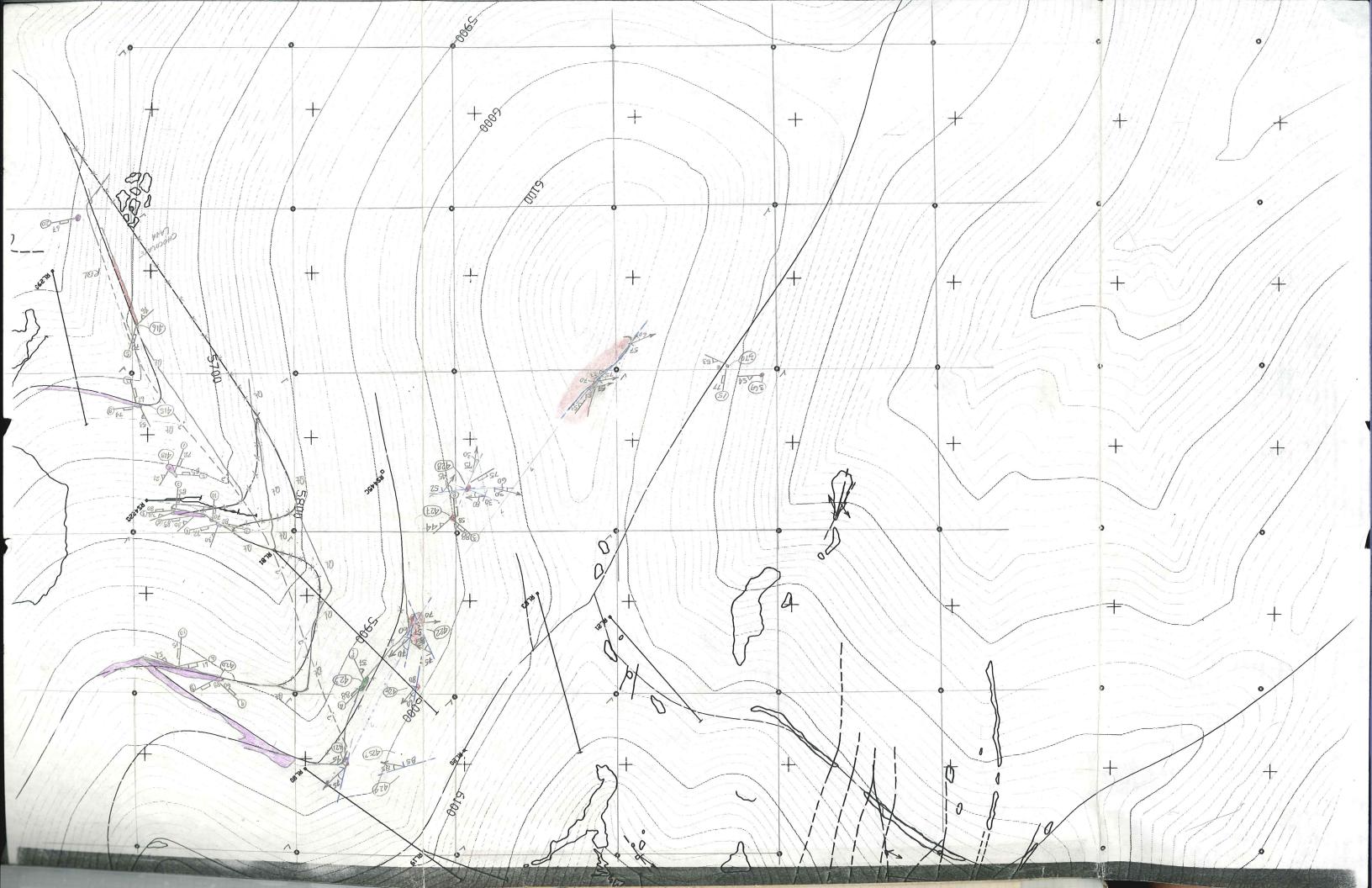


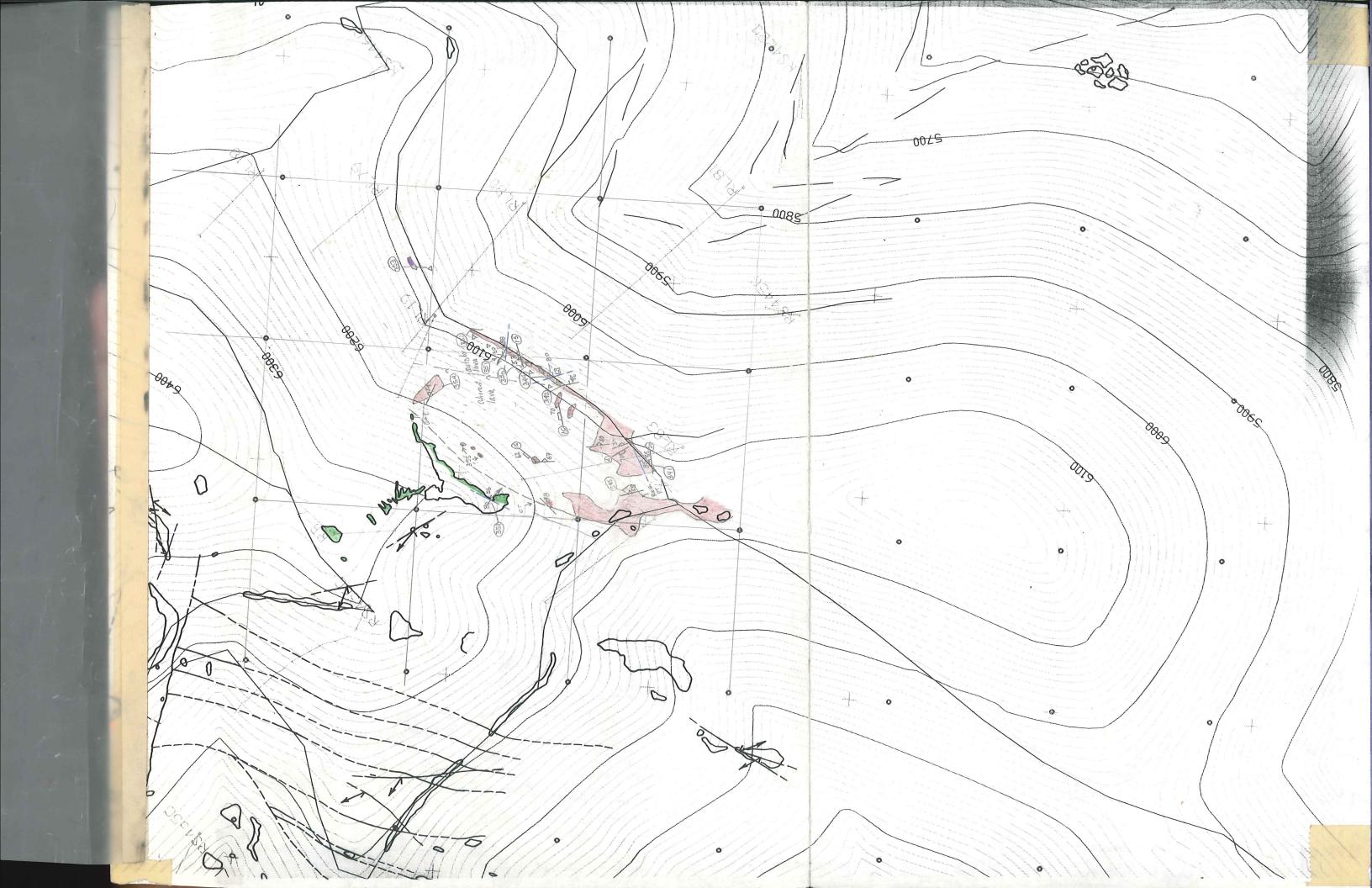
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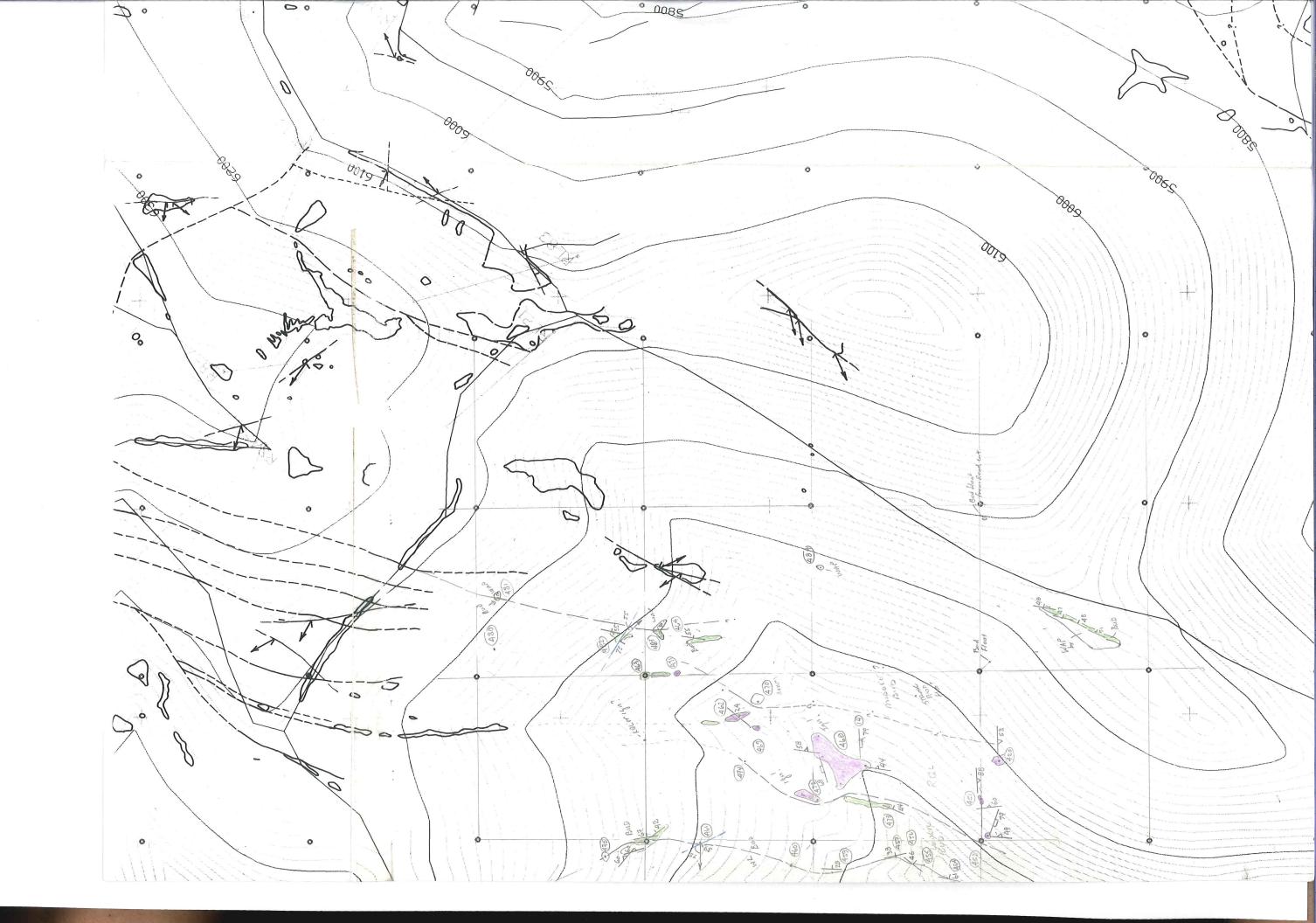


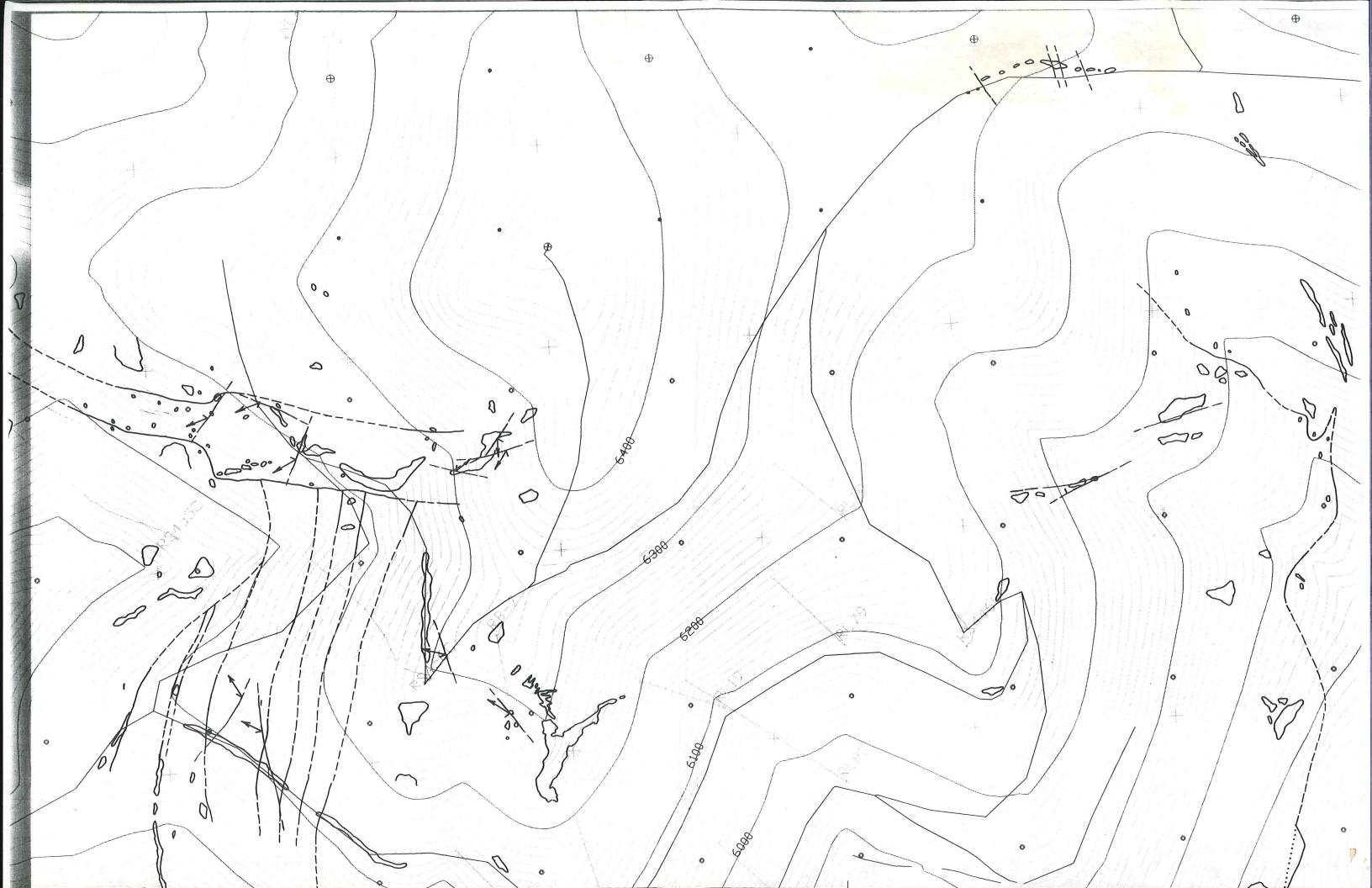














White Alps Peer Review: April 27, 1999

GEOLOGY

Target Concept The primary target at White Alps is a structurally controlled, high-grade underground-minable gold-silver deposit. Several major faults were intersected in previous drill holes; some are low- to moderate-angle as seen in the core tails. The stratigraphy, fault geometry, and structural setting are poorly understood, given that only two deep holes (RS-446, RS-456) have been drilled and all of the shallow holes are RC. Resistivity shows strong lineaments in plan and interpreted sections, but correlation with RC holes is difficult.

HYDROTHERMAL ALTERATION

Type and Intensity Moderate to strong silicification is widespread in outcrops and roadcuts. Argillization is weak to strong at the surface, consistent with high-level epithermal alteration. White Alps occurs at the intersection of a major NE-trending fault zone (Schoolbus Canyon fault) and an ENE extensional joint set. The latter contains steeply dipping silica-clay-FeOx filled fractures, and is mapped from the southern edge of Dreamland north to the backside of White Alps knob and east to RL-18. Alteration intensity down hole is weak to strong, consisting of silicification, argillization, and pyritization. Some holes show strongest alteration in the hanging wall of faults, whereas others show strongest alteration in the footwall.

GEOCHEMISTRY

Surface Geochemistry

Rock

Many rock chip samples contain 0.01-0.5 ppm Au, and 5 contain 0.5-1.0 ppm. A dozen Ag values are >1 ppm. The NW side of White Alps has 15 rocks with Ag >5 ppm. Strong Se values occur in silicified outcrops in the NE part of the target area. Hg is high, Sb is spotty high, and a few As values are >50 ppm.

Soil

Many are > 50 ppb Au; Sb is moderate (10-50 ppm); several Se are 1-5 ppm; As and Ag are generally low; Hg is spotty with several 0.5-1 ppm.

Drill Hole Geochemistry

A series of narrow but significant structurally controlled veins with sub-economic Au-Ag values were intersected in the first deep hole drilled at White Alps. The highest values occur along silicified veins and clay-sulfide veins. The highest silver assays in all holes to date (RS-446) occur in the footwall of an alteration contact (Bud epiclastics above LBT)

that is interpreted as a silicified fault. These mineralized structures are approaching Au-Ag values seen around the Rosebud deposits, and they may represent leakage from nearby deposits.

Table 1 shows significant drill intercepts, with the highest values in bold.

Table 1. Significant drill intercepts, White Alps.

Drill Hole	Interval (ft)	Depth (ft)	Au oz/st	Ag oz/st	Comment	Trace elements
RL-18	10	275-285	0.021	1.87	hole lost at 465	none available
RL-19	5	20-25	0.016	0.25	hole lost at 445	none available
	5	75-80	0.013	0.52		
	15	120-135	0.016	1.13		
	20	195-215	0.052	1.04	incl 10' of 0.075 Au	
RL-20	5	150-155	0.01	1.24	625' T.D.	none available
	5	375-380	0.011	0.5		
	5	395-400	0.016	0.36		
RL-21	5	550-555	0.015	<0.10	645' T.D.	none available
	5	560-565	0.012	<0.10		
	5	570-575	0.011	<0.10		
RL-79	5	260-265	0.012	0.13	705' T.D.	none available
	10	290-300	0.011	0.89		
	15	490-505	0.014	1.47		
RL-80	5	265-270	0.01	0.77	675' T.D.	none available
	5	295-300	0.012	1.11		
RL-81	Nil				805' T.D.	none available
RL-83	5	410-415	0.01	<0.10	815' T.D.	
RS-446						
precollar	1100		Detectable		Cumulative intervals	
	0.8	1756.2-1757.0	0.037	32.85	pyrarg + cp	314 As, 1140 Sb, 218 Se, 1.47 Hg
	2.4	1759.7-1762.1	0.011	3.52	pyrarg + cp + stib	
	2.3	1766.8-1769.1	0.024	16.8	py-ba-clay-Si	592 As, 351 Sb, 201 Se
	0.7	1817.7-1818.4	0.006	7.15	black silica	
	4.6	1883.2-1887.8	0.009	4.44		
	1.5	1887.8-1889.3	0.017	8.42	Si-gouge-gray-sulfidic	168 As, 65 Sb, 31 Se
	1.0	2339.4-2340.4	0.015	0.32	Sulfidic slfd bxa	342 As, 70 Sb,118 Se
RS-456	1.5	2373.7-2375.2	0.006	2.13		145 As, 18 Sb, 22 Se

The strongest mineralized drill holes are RS-446, RL-19, RL-20, RL-79, and RL-80. (Mineralized is defined as the longest and most intense intervals of silicified, pyritized, and argillized rock with anomalous gold and silver)

GEOPHYSICS

Resistivity High anomaly (>150 ohm-m). Resistivity defines N15E and N70W linear features. Resistivity highs correlate fairly well with subcropping silicified bodies, but their geometries at depth are somewhat contradictory. LAC's shallower drill holes intersected strongly silicified and pyritic rock, which appears to be fault-bounded on several sections.

Recommendations

DRILL HOLES Four drill sites are proposed (A, B, C, D.) **B** and **D** are recommended for drilling in this phase, and follow-ups will be contingent on results from these two holes. **B** and **D** are approximately 460 and 420 feet respectively from RS-446. Site B is in the hanging wall of the main White Alps structure down dip of RL-19 and RL-80. Both will penetrate the elevations of the strongest geochemistry in previous holes (about 4000 feet elevation). These two holes, when used in conjunction with RS-446, should provide adequate information to determine whether angle holes are justified during a second phase.

<u>Site</u>	<u>Depth</u>	<u>Target</u>
A	1400 rc + 600 core	HW of RL-20, down dip of White Alps
\mathbf{B}	1450 rc + 550 core	HW of RL-19 and RL-80
C	1400 rc + 600 core	HW of RL-79
D	1600 rc + 500 core	HW of RL-18 and silica-Au-Ag-As-Se in bedrock

COST TO FIRST DECISION POINT \$40,000 to 60,000 each (\$80-120K) 2 deep holes (both vertical). These additional holes are needed to provide (1) offsets to mineralization in RS-446, (2) constraints on the structural setting, and (3) geochemical vectors towards higher grades.

Roseland Meeting 27-4-99

MOTHER CODE = 3 holes; I Vertical, 2 angle

Jim R. will only be out at Rose bed for two more days.

II. White Alps

1. White Mps Shuchere

Resistantly

Resistantly

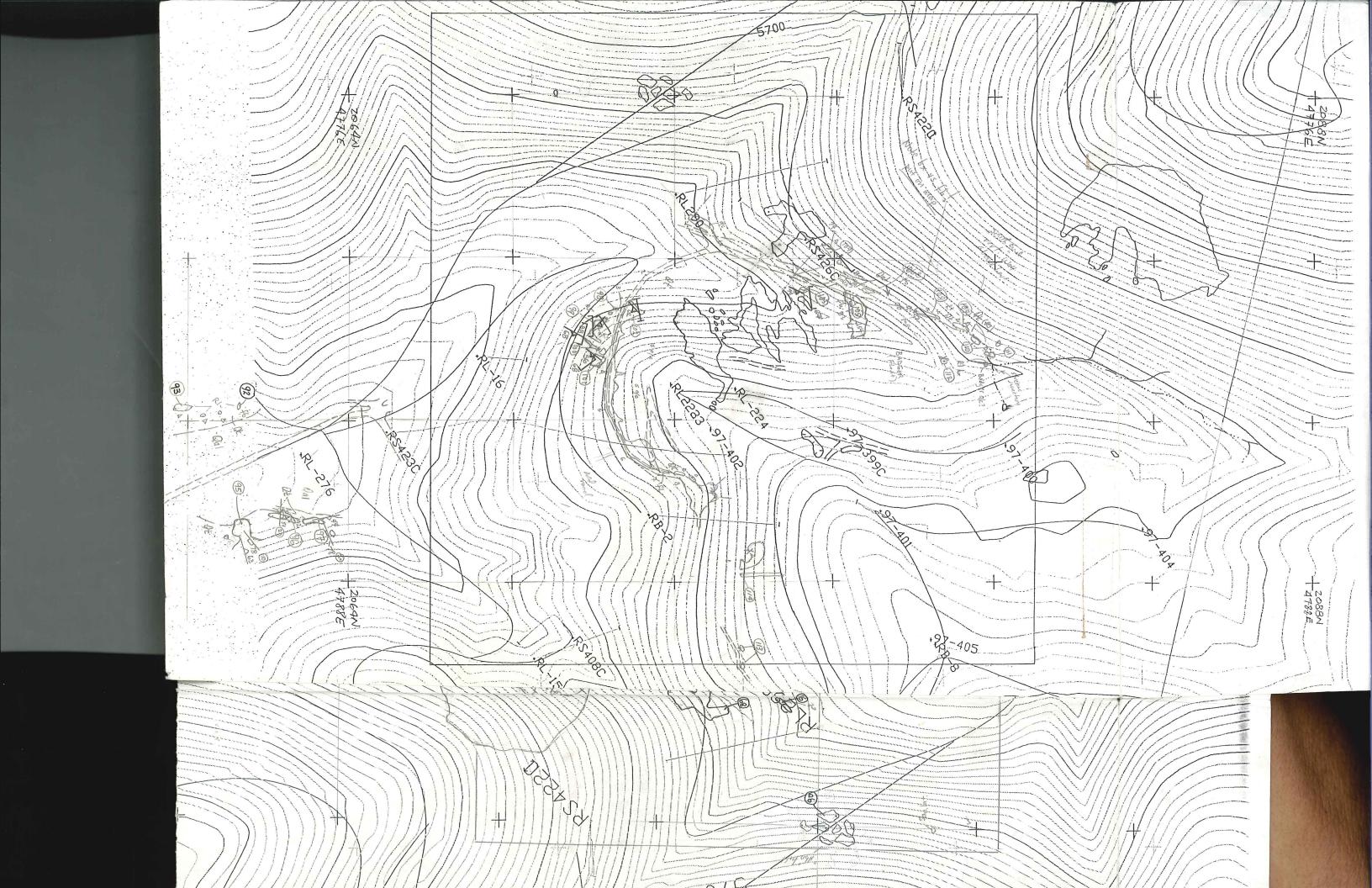
Resistantly

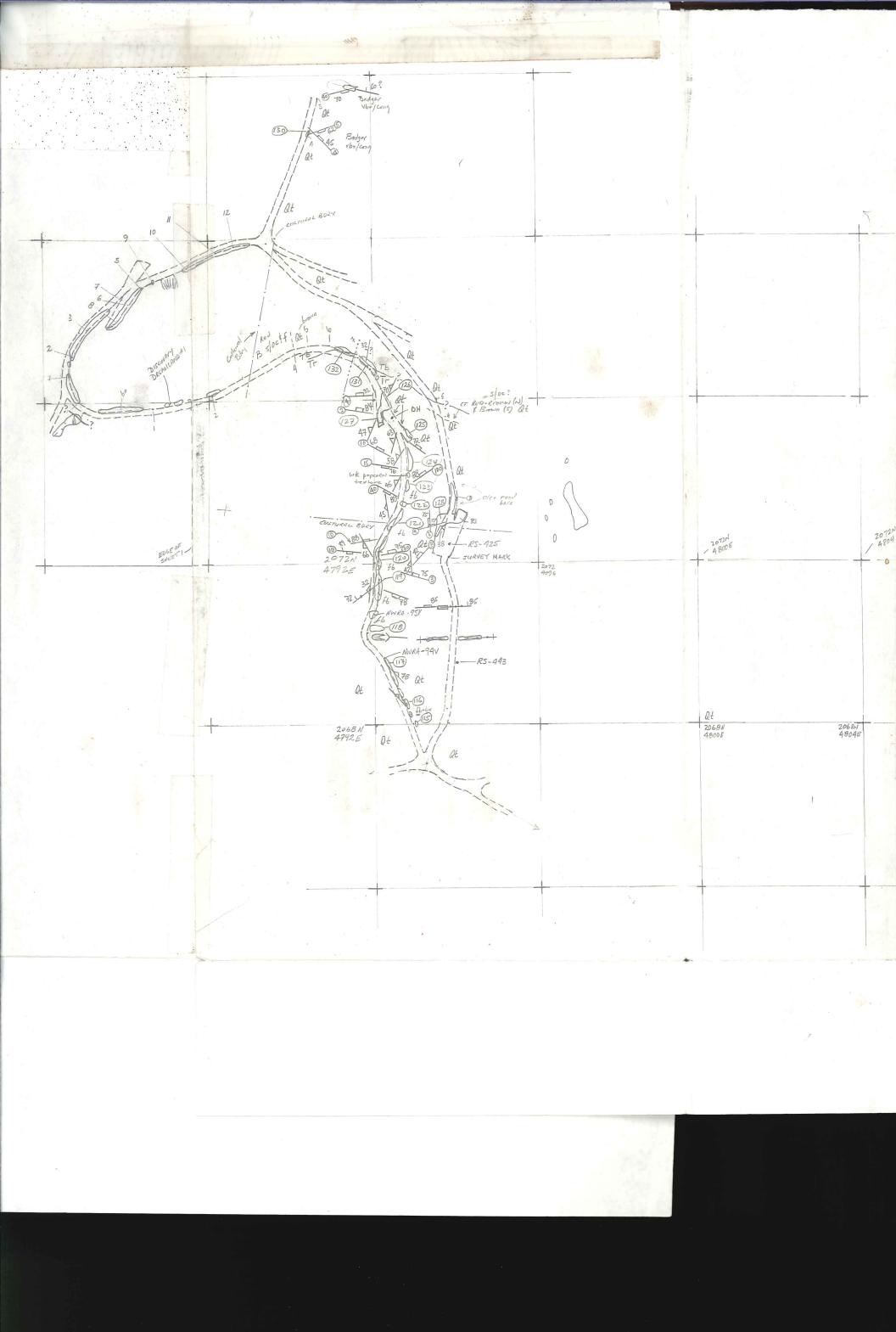
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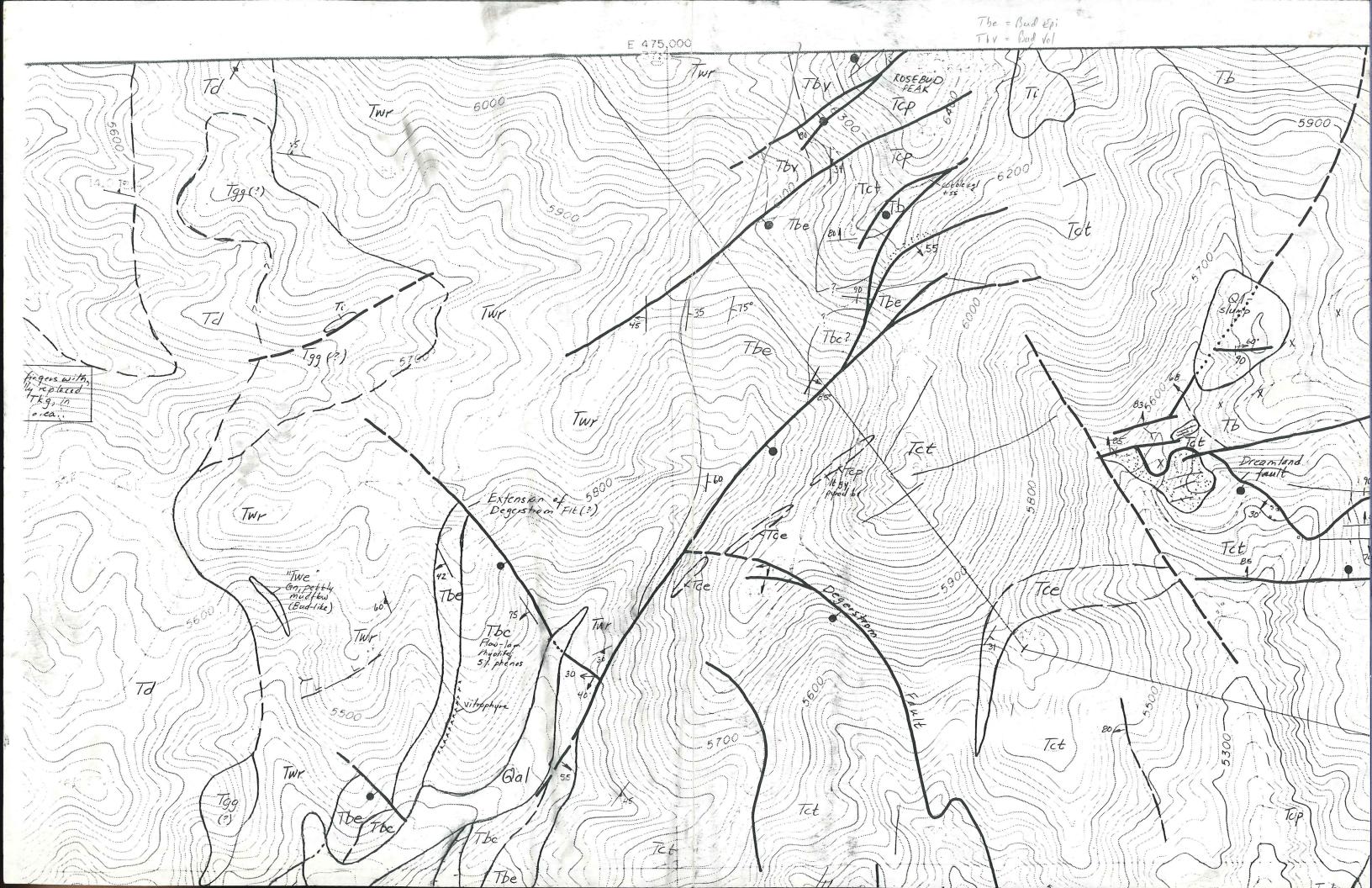
\$40 to 60 K/40/e Two holes to begin with

Drilling E or NG (070°) Structures

15 there a Cave Fourt Somewhere at depth







NEWMONT GOLD COMPANY

GEOLOGY DEPARTMENT WINNEMUCCA EXPLORATION

Telephone: (702) 625-5600 Facsimile: (702) 625-5655 861 West 6th Street

Winnemucca, Nevada 89445

MEMORANDUM

October 31, 1998

TO:

RANDY VANCE

FROM:

PETER MITCHELL

SUBJECT: OCTOBER MONTHLY REPORT

cc: Rick Lisle, Kurt Allen, George Langstaff, Pete Rogowski, File

ROSEBUD

Prospect Development

White Alps and Short Shot

Surface mapping in the White Alps-Short Shot area is nearly complete, but only the southwest trench has been mapped. The remaining two trenches, the road cut between the White Alps-Brown Palace saddle and drill site RS-446, and the surface between RS-446, -447, 456 and Rosebud Peak will be mapped during November. An alteration overlay will be completed in December after thin section, PIMA and x-ray diffraction data are collected.

Figures 1 and 2 show the trends and down-dip projections of the major geologic units exposed on the surface. Areas of intense silicification (jasperoid) and those with strong to intense argillization are shown on the cross section. Figure 3 is a schematic rendition of the geology exposed in the road cut ~400 feet south of the line of section. The geology shown in figures 1 and 2 is an interpretation of the details in Figure 3 combined with the geology of the southwestern trench (Fig. 4). The units exposed at White Alps and Short Shot include volcaniclastic, pyroclastic and effusive deposits. Because of the occurrence of welded(?) ignimbrite horizons within the "bedded" sequence and the basal contact of these units with "planar laminated" trachytic lava(?), these rocks probably are correlative with the western South Ridge section (Table 1).

The most significant difference between my interpretation of the White Alps-Short Shot geology is the recognition of a major and several minor dikes of Rosebud Quartz Latite, and the lack of significant faulting. There appears to be one major fault (White Alps) in the area, although no single

fault plane exist to connect the jasperoid bodies (Fig. 1). The White Alps "fault" appears to be a north-northeast-trending zone overprinted by strong to intense east-northeast- to east-trending, north-dipping jointing. It is likely that the west-northwest-trending Rosebud Quartz Latite dike occupies a major tectonic zone, and the strongly developed jointing north of the White Alps probably reflects the lateral extent of this zone. The timing between the White Alps fault zone and the easterly-trending fracture system is not clear and warrants additional evaluation. Because the White Alps fault zone and zone of intense jointing are variably silicified and locally form jasperoid bodies, tectonism apparently predates hydrothermal alteration and mineralization.

South Ridge

In September, Peter Rogowski and I collected several rock-chip samples during a reconnaissance traverse through the *South Kamma* prospect which occupies the southeastern corner of South Ridge. During this traverse we noted that silicification extends northward from the large zone of strong silicification and jasperoid outcrops for more than 3,000 feet. Silicification, which diminishes progressively northward, occurs as pervasive alteration in the south to millimeter-scale replacement along bedding planes in the north. Argillization is present, but is less intense than in the western portions of South Ridge and north of the Rosebud mine. Detectible gold was present in only two samples, with a maximum of 400 ppb, but all of the samples contained detectable As and Sb, and all but one contained detectable Se. Mercury and molybdenum were also present in several of the samples.

The rocks exposed on the south-central portion of South Ridge (*Rosebud Canyon*) are intensely argillized over large areas, and the two samples that I collected contained anomalously high trace elements (As, Sb, Se, Hg) and one contained detectable (350 ppb) gold. Favorable host (LBT- and Dozer-like) rocks are present, as are minor through going(?) faults and fracture zones. Because previous exploration in this area was apparently limited to reconnaissance-style geologic mapping and rock-chip sampling, and minor soil sampling, additional geologic mapping and geochemical sampling is needed to identify drilling targets.

At the *Vertex* prospect on the Western end of South Ridge, Peter Rogowski has found the geology to be much more complicated than previously mapped. He has identified several dike-like intrusions, multiple "Dozer" units separated by erosional surfaces, and auriferous(?), black-matrix (pyritic) hydrothermal breccias. Where drill hole 96-395 intersected one of these black-matrix breccias, the interval assayed 0.04 ounce per ton gold. Most of the western end of South Ridge is weakly argillized, and there are small silicified zones on the northern side.

The results of preliminary geologic mapping and geochemical sampling in the South Kamma, "North Rosebud Canyon" and Vertex prospects have bolstered my enthusiasm for ardently prospecting South Ridge. As discussed in our meeting with Dave Groves, it is important that we augment the soil and rock-chip sampling programs completed during previous exploration on South Ridge. It is important that we sample all of South Ridge as soon as possible. I would like to use Holly McLaughlin (*Geotemps*) to help Peter Rogowski and me sample and map South Ridge, and will contact her to see if she is available in November and December.

District Evaluation

Stratigraphy

The Rosebud stratigraphy is complex in detail, but on a district-scale it appears to be a relatively simple repetition of effusive volcanism followed by erosion, lacustrine and subaerial sedimentation, and pyroclastic eruption (Table 1). Following the guidelines set out by Dr. Mahood during her visit earlier this month, Peter Rogowski and I are formulating a district-wide stratigraphy for the Rosebud area. Some individual units, particularly the ignimbrites, may occur throughout the district, but many lithologies have a more limited distribution. To circumvent correlation problems between the less extensive units, our revised stratigraphy is base on packages of rocks that represent specific geologic environments (sequence stratigraphy) with a relatively extensive spatial distribution. We plan to have a preliminary version of the revised stratigraphy completed before the end of the year. The preliminary stratigraphy for South Ridge is shown in Table 1.

Structural Geology

Our understanding of the interrelationship between faults, joint swarms, hydrothermal alteration and precious metal mineralization within the Rosebud district is insufficient to aid in the delineation of drilling targets. Discontinuous "fault" planes with well developed slickensides are common throughout the district, but with the exception of the South Ridge, Cave and White Alps structures, I have found little evidence to support the existence of many of the faults shown on our predecessors geologic maps. I think that it is important to increase our understanding the structural geology of the Rosebud district as quickly as possible. To do this I would like to contract Dr. Tom Westervelt for two to three weeks. This should be enough time for Dr. Westervelt to review the structural setting of the Rosebud mine, evaluate specific structural problems already identified, and develop the rudiments of a structural exploration model.

MISCELLANEOUS

Time Distribution

During October my time was divided between field work (59%), Winnemucca office (16%), staff meetings (6%), Newmont administration (6%) and Mill Canyon (3%). Days off accounted for 16% of the month. Field work included geologic mapping at Short Shot (6 days), White Alps (6 days) and South Kamma (1 day), and disfict stratigraphic evaluation (5 days).

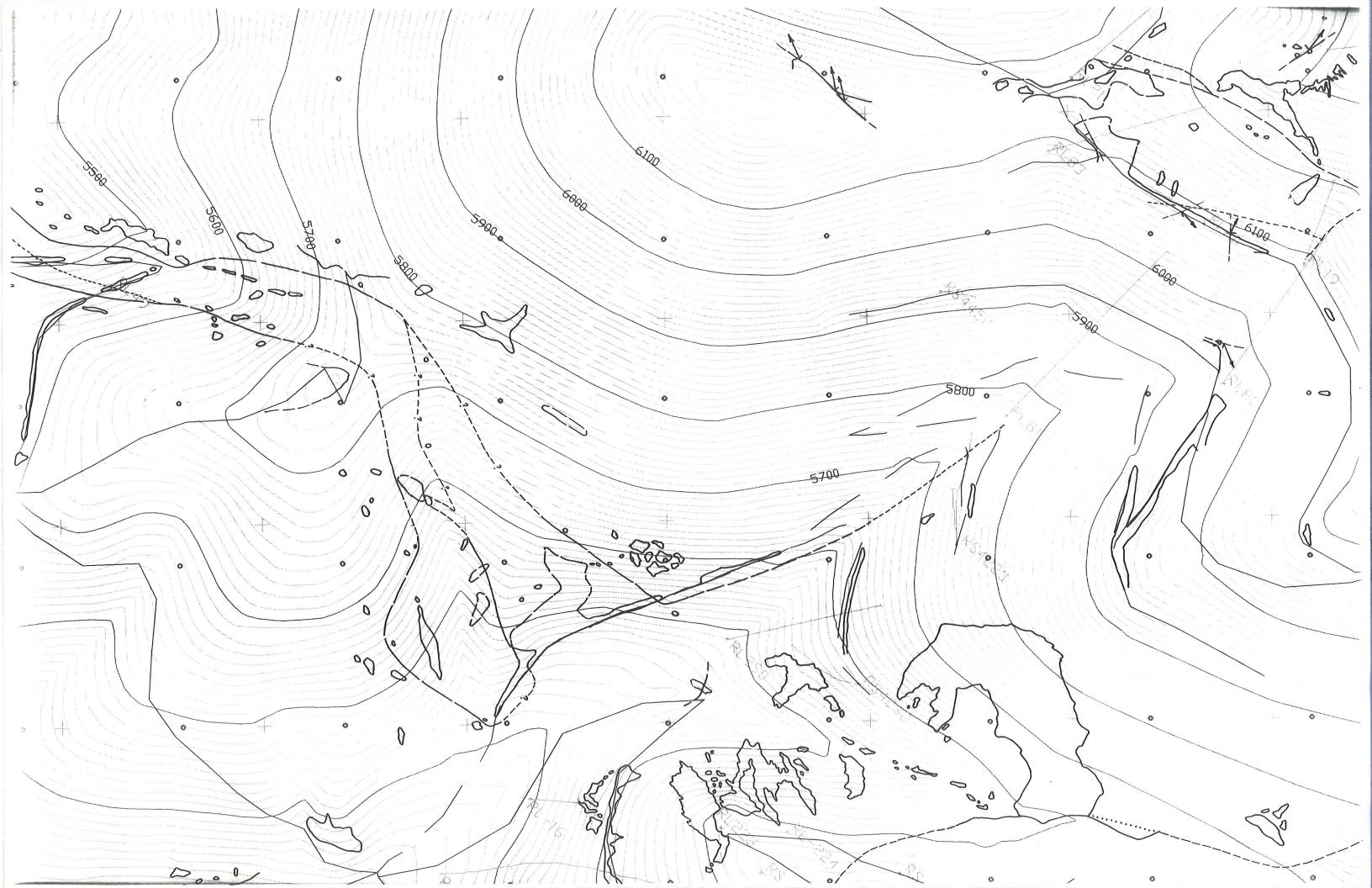
Fuel Useage

I took 157.3 gallons of unleaded gasoline from the Rosebud fueling station during October.

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Office:	WINNEMUCCA, N	IEVADA																	
Batch No.:																			
Geologist:	VANCE,R																		
Project:	ROSEBUD																		
Project Code:																			
Submittal Date:	12-Oct-98		#NIAN4E0	Lobor	oton, Dot														
Labaratan nama:	Chamay Labo		#NAME?	Labor	atory Data	1													
Laboratory name:	Chemex Labs Sparks, Nevada																		
Samples submitted at: Date samples received:	Maria San Maria																		
Lab batch ID:	A9833427																		
X-ref. batch ID:	710000427																		
Samples prepped at:	Sparks, Nevada																		
Seive units:	Tyler mesh																		
Number of samples:	7																		
Number of variables:	11																		
Report number:	A9833427																		
Report version:	96																		
Report type:	CERTIFIED																		
Report date:	23-Oct-98									•			-		OI:	7	0 -		
	Elemer		compou	nd na		Au	Au		As	Cu	Mo	H ₀					Se	need the D.C. Ver	
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	Second		leach,	extrac	ction or de	livery:													
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END_OF_ASSAY_DATA
START_OF_FOOTNOTES
END_OF_FOOTNOTES
END_OF_REPORT

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Newmont Gold Co. - Rosebud Winnemucca, Nevada

Memorandum

To: George Langstaff

Peter Mitchell

Date: November 5, 1998

Fr:

Randy Vance -RBJ

Subj: Availability of Routine Reports

There are several periodic reports available to you as a way to keep abreast of Rosebud developments. I do not routinely distribute these to you directly, but you are, of course, welcome to read them on a regular basis. Each report is filed within a week or so after I receive/complete them:

- 1. Newmont Gold Monthly Report, (by RBV) completed by the 1st of the month. Distributed to Winnemucca staff by Janice.
- 2. Rosebud Mining Company LLC Monthly Report, (RBV)
 Similar to #1, except I expand and elaborate on specific points of interest to Hecla staff. This report is filed in the file cabinet in the Rosebud exploration trailer in the white binder labeled "1997-1998 monthly reports". It is usually completed by the 10th of the month.
- 3. Monthly Development Drilling Report, by Kurt Allen Summarizes the recent assays of development drilling reports, and the host lithology. Filed in the top drawer of the Rosebud file cabinet in a file folder, and in the Winnemucca office file. Written on the 1st of the month when drilling.
- 4. Rosebud Mine Monthly Report, by Ron Clayton and Staff.

 Details on the mine/mill operations and production. Includes report # 2 above.

 Filed in the Winnemucca files under Geology, 1998 Hecla Monthly Report.

 Usually completed by the 12th of the month.
- 5. Management Committee Meeting Minutes, by Hecla.

 Contains the minutes of management committee meetings, held about every 2 ½ to 3 months at rotating locations. Includes discussions of operational problems, and results, plans, and overheads of exploration developments. Filed in the Winnemucca files under Geology, 1998 Management Committee Meetings.

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Previewed on Iris and approved by:

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