PROPERTY: Sugarloaf Peak SHEET No. 2 of 3 HOLE No. SWR-15

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by: T. Young

GEOLOGICAL LOG

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	% Py	Sil	Pyrophyllite	% pull Qtz.
100	105		quartz porphyry schist				wk. to mod. jarosite (?)		+	+++	10
5	10		generally with strong							+++	
10	15		Pyrophyllite groundmass							+++	
15	20						strong reddish hem. stain		+	+++	
20	25									+++	
25	30									+++	
30	35									+++	
35	40									+++	
40	45									+++	
45	50									+++	10
50	55						wk hem. stain + minor				5
55	60						jarosite on schist frags				
60	65										25
65	70										95
70	75										95
75	80										20
80	85										
85	90										25
90	95										95
195	200										75
							Schist frags. strong lm (?) coating				85

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 3 of 3 HOLE No. SWR-15

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	ROCK TYPE / STRUCTURE FM	DESCRIPTION	Struc	LOG	ALTERATION / MINERALIZATION LOG	DESCRIPTION	%py	Sil	Pyroph.	%bull qtz
200	205		quartz-porphyry schist				Mod reddish/brn stain			+++	60
5	10		predominately pyrophyllite							+++	70
10	15		groundmass							+++	10
15	20						V. weak jarosite (?)			+++	
20	25									+++	
25	30							1-3		+++	
30	35						pyrite pred. in schist, minor in qtz	1-3		+++	60
35	40						rare galena cube	1-3		+++	30
40	45						Occas. coarse py w/qtz	1-3		+++	80
245	250						wk. py. w/qtz	+c		+++	95
	TD										

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 1 of 3 HOLE No. SWR-16

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth: 250 feet
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing: 90°	At:	: to ft.
Claim No.	Inclination: -50°	At:	Drilled by: Drilling Services - Reverse
Date started: 6-18-85	Date completed: 6-19-85	At:	Logged by: T. Young

GEOLOGICAL LOG

FEET FROM	FEET TO	FM	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	ALTERATION / MINERALIZATION LOG	DESCRIPTION	%py	Sil	pyrophyllite	% bull qtz	jarosite	ASSAY RECORD SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH
0	5		No Sample														
5	10		↓														
10	15		quartz porphyry schist							+++		++					
15	20		with strong pyrophyllite							+++		++					
20	25		groundmass							+++		+					
25	30									+++		+					
30	35									+++	25	++					
35	40									+++	25	+					
40	45									+++							
45	50									+++							
50	55									+++							
55	60									+++							
60	65									+++							
65	70									+++		+					
70	75									+++		+					
75	80									+++		+					
80	85									+++		+					
85	90									+++		+					
90	95									+++		+					
95	100									+++	10	+					

PROPERTY: Sugarloaf Peak SHEET No. 2 of 3 HOLE No. SWR-16

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	ROCK TYPE / STRUCTURE FM	DESCRIPTION	Struc	LOG	ALTERATION / MINERALIZATION LOG	DESCRIPTION	% py	Sil	pyrophyllite	% bull qtz	jarosite
100	105		quartz porphyry schist							+++		++
5	10		with strong pyrophyllite							+++		+
10	15		groundmass							+++	10	+
15	20									+++		+
20	25									+++		+
25	30									+++	20	++
30	35									+++	40	+
35	40									+++	40	+
40	45						vuggy qtz-jarosite material			+++	40	+++
45	50									+++	10	+
50	55									+++		++
55	60									+++		+
60	65									+++		+
65	70									+++		++
70	75									+++		+
75	80									+++		+
80	85									+++	60	++
85	90									+++	95	+
90	95									+++	20	+
195	200							tc		+++		++

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 3 of 3 HOLE No. SWR-16

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	% Py	Sil	Pyro-phyllite	% bull qtz	Jaro-site
200	205		quartz-porphyry schist				weak reddish lm-hm stain	1/2-1		+++		
5	10		with strong phyrophyllite					1-3		+++		
10	15		ground mass					1-3		+++		
15	20							1-3		+++		
20	25							1-3		+++		
25	30							1-3		+++		
30	35							tr		+++		++
35	40							1-3		+++		+
40	45							1-3		+++		
245	250							tr		+++		+
	TD											

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 1 of 3 HOLE No. SWR-17

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth: 250'
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing: 150°	At:	: to ft.
Claim No.	Inclination: -50°	At:	Drilled by: Drilling Services - Reverse
Date started: 6-18-85	Date completed: 6-19-85	At:	Logged by: T. Young

GEOLOGICAL LOG

FEET FROM	FEET TO	FM	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	% py	Sil.	pyro-phyllite	% bull qtz	jaro-site
0	5		No Sample									
5	10		quartz porphyry schist							+++		+
10	15		with strong pyrophyllite							+++		++
15	20		ground mass							+++		++
20	25									+++	75	++
25	30									+++	30	+
30	35									+++		+
35	40									+++	25	++
40	45									+++	20	+
45	50						weak to mod. ± specularite reddish hematite stain			+++		+
50	55									+++		+
55	60									+++		
60	65									+++		
65	70									+++		
70	75									+++		
75	80									+++		
80	85									+++		
85	90									+++		
90	95						strong reddish hem. staining ± specularite			+++		
95	100									+++	5	

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 2 of 3 HOLE No. SWR-17

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	% py.	Si	pyro-phyll.	% bull qtz	jaro-site
100	105		quartz porphyry schist				Mod. reddish hem stain ±specularite			+++	10	
5	10		with strong pyrophyllite				↓			+++		
10	15		groundmass							+++		+
15	20									+++		+
20	25									+++		+
25	30									+++	5	+
30	35						Mod reddish hem stain			+++	80	
35	40									+++		
40	45									+++	90	++
45	50									+++	40	+
50	55						weak reddish hemstain			+++	20	+
55	60									+++		+
60	65							½-1		+++	5	
65	70							tc		+++		+
70	75							1-3		+++		+
75	80							½-1		+++		
80	85							1-3		+++		
85	90							1-3		+++		
90	95						tc. galena in quartz	½-1		+++	10	
195	200							½-1		+++	10	

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH

PROPERTY: Sugarloaf Peak SHEET No. 3 of 3 HOLE No. SWR-17

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

FEET		GEOLOGICAL LOG														ASSAY RECORD									
		ROCK TYPE /. STRUCTURE				ALTERATION / MINERALIZATION																			
FROM	TO	F M	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	% py	Sil	pyro-phyllite	% bull qtz	jaro-site				SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
200	205		light gray quartz					1-3		+++															
5	10		porphyry schist with					½-1		+++															
10	15		strong pyrophyllite					½-1		+++															
15	20		ground mass					½-1		+++															
20	25							½-1		+++	40														
25	30							½-1		+++															
30	35							½-1		+++															
35	40							½-1		+++	10														
40	45							½-1		+++	30														
245	250							½-1		+++	30														
	TD																								

PROPERTY: Sugarloaf Peak SHEET No. 1 of 3 HOLE No. SWR-18

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing: —	At:	: to ft.
Claim No.	Inclination: -90°	At:	Drilled by: Drilling Services - Reverse
Date started: 6-19-85	Date completed: 6-19-85	At:	Logged by: T. Young

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	%py	Sil	Ser.	pyro-phyllite	jaro-site	% bull qtz				SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
0	5		No Sample																							
5	10		↓																							
10	15		quartz porphyry schist				white-punky-silky texture			+++		+														
15	20		white to light gray,							+++		+														
20	25		generally with a							+++		++														
25	30		sericitic groundmass							++		+++														
30	35									++		+++														
35	40								+	++		++														
40	45								+	++		+														
45	50							1-3		+++																
50	55							+c		+++		++														
55	60							+c		+++		++														
60	65							½-1		++		+														
65	70						+c anhydrite	½-1		++		+														
70	75							1-3	+	+++																
75	80							1-3		+++			5													
80	85							1-3		+++																
85	90							1-3		+++																
90	95							1-3		+++																
95	100							1-3		+++																

PROPERTY: Sugarloaf Peak SHEET No. 3 of 3 HOLE No. SWR-18

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	F M	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	% py	Sil	Ser	pyro-phyllite	jaro-site	% bull qtz				SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
200	205		quartz porphyry schist					½-1		+++																
5	10		light gray with					½-1		+++																
10	15		sericitic groundmass					1-3		+++																
15	20							1-3	++	+++																
20	25							½-1	++	+++																
25	30							½-1	+	+++																
30	35							½-1		+++																
35	40							1-3		+++																
40	45							1-3	+	+++																
245	250							1-3		+++			5													
	TD																									

PROPERTY: Sugarloaf Peak SHEET No. 1/4 HOLE No. SWR-1

Sec. 33, T4N R20W; Date Started 11-13-84, completed 11-14-84, bearing 30° Inclination -70° Drilling Services-Reverse, TD-400' logTHY 11-15-84

GEOLOGICAL LOG +++ v.strong ++ mod. + wk

FEET		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION										ASSAY RECORD									
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	%Py	graph py	Sil	Set	Chl Epd.	Arg.	Bull qtz	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
0	5		metamorphosed intermediate volcanic rock - qtz porphyry schist				Bleached - ser. schist	++	5% lm			+++													
5	10							++	5% lm			+++													
10	15							++	5% lm			+++													
15	20						slightly less bleaching	++	5% lm			+++													
20	25							+	5% lm			+++													
25	30						mod. lm	++	5% lm			+++													
30	35						Oxide - Sulfide 90-10	++	1%			+++			+										
35	40						Ox-Sul 50:50 mod lm	+	1-3%			+++													
40	45		Sulfide - greenish gray, light				95% Sulfide - tc.anh, lt grn.-gy		3-5%			+++													
45	50		quartz porphyry schist				Sul.; tc.anh.; local tarnished py		3-5%			+++													
50	55						same-; py. stronger w/qtz		3-5			+++													
55	60								3-5			+++													
60	65						same - sil chips, high sulfide		3-5		+	+++													
65	70						tc. anh.		5-10		+	+++													
70	75								3-5			+++													
75	80						fn. gr. chips, tc anh		3-5		++	+++													
80	85								3-5		++	+++													
85	90						tc. anh.		5-10		++	+++													
90	95						tc. anh.		5-10		++	+++													
95	100						tc. anh.		3-5		++	+++													

Water at 220'-trickle; 10 g.p.m. 300 to 400 T.D.

PROPERTY: Sugar loaf Peak SHEET No. 2/4 HOLE No. SWR-1

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	%Py	graph py	Sil	Ser.	Chl. Epd.	Arg.	Bull qtz		SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
100	105		light greenish-gray quartz						5-10		++	+++														
05	10		porphyry schist						5-10		++	+++														
10	15								5-10		++	+++														
15	20						tc. epidote?		5-10		+++	+++	+													
20	25						10% clast - strong serfoliation 90%-gray sil.		5-10		+++	+++														
25	30						tc. epid.?		5-10		++	+++	+													
30	35								3-5		+	+++			+											
35	40								3-5		+	+++														
40	45								3-5		+	+++														
45	50								3-5		+	+++														
50	55								3-5		+	+++														
55	60								3-5		+	+++														
60	65						py strong in silified chips		3-5		++	+++														
65	70								5-10		+++	+++														
70	75								3-5		+	+++														
75	80						py up to 1mm		5-10		++	+++														
80	85						[illegible]		3-5		+	+++														
85	90								3-5		++	+++														
90	95						local strong py in sil clasts		5-10		++	+++														
195	200		-(water- trickle)						3-5		+	+++														

PROPERTY: Sugarloaf Peak SHEET No. 3/4 HOLE No. SWR-1

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE					ALTERATION / MINERALIZATION																			
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	%Py	graph py	Sil	Ser.	Chl. Epid.	Arg	Bull qtz		SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
200	205		light greenish-gray quartz				py, v. fn to 0.5 mm		5-10		++	+++														
05	10		porphyry schist						5-10		+++	+++														
10	15								5-10		+++	+++														
15	20						v. fn. grained dark min along sp. 2 fol.		5-10		+++	+++														
20	25						tc. fn grained sphalerite.		3-5		++	+++														
25	30								3-5		++	+++			+											
30	35								5-10		++	+++														
35	40						rare fn-grained blk. min		5-10		+++	+++														
40	45						light green strong ser.		3-5		+	+++														
45	50						tc. epid.?, sil. chips v. light gray		3-5		++	+++														
50	55						tc dark min.		5-10		+	+++														
55	60								5-10		++	+++														
60	65						tc. dark min		3-5		+	+++														
65	70						Monotonous green, ser. schist		3-5			+++														
70	75						tc. dark min		3-5			+++														
75	80								1-3			+++														
80	85								5-10		++	+++														
85	90		increase water				minor chlorite		3-5		+	+++	chl. +													
90	95		10-12 gal/min				minor chl. + epid.		3-5			+++	+													
295	300						mod. chl + epid		3-5			+++	++													

PROPERTY: Sugarloaf Peak SHEET No. 4/4 HOLE No. SWR-1

FEET		GEOLOGICAL LOG														ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																			
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	% py	graph py	Sil.	Ser.	Chl. epid.	Arg.	Bull qtz	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
300	305		light to medium gray				tc. dark gray, fn. grained sulfide tc. ep. sp?		1-3		+	+++	+												
05	10		quartz porphyry schist				mod. epid. med. dark green		1-3			+++	++												
10	15						minor sp.		3-5			+++	+												
15	20								1-3		++	+++													
20	25						tc sp.?		1-3		+	+++													
25	30						light & dark green		3-5			+++													
30	35						tc sp.? dark green		1-3			+++													
35	40						tc. fn. grained gray min. MoS_2? light green		1-3			+++			+										
40	45								3-5			+++			+										
45	50						tc. part. oxidized sulfide?		1-3			+++													
50	55						v. light gr.		1-3			+++													
55	60						10% qtz. with py, dark min		3-5			+++													
60	65						large chips w/qtz-py vnlts		3-5			+++													
65	70						local coarse sphalerite		1-3			+++													
70	75						0.5% fn. grained sphalerite in qtz		1-3			+++													
75	80						tc-py-sp. in qtz		5-10			+++													
80	85						med green		3-5			+++													
85	90								1-3			+++													
90	95						tc. epid.?		3-5			+++	+												
95	400		(10 g.p.m. water)						3-5			+++													
	TD																								

PROPERTY: Sugarloaf Peak SHEET No. 1/4 HOLE No. SWR-2

Sec. 33 T4N R20W; Date Started 11-14-84; Completed 11-15-84; Bearing 10°, Inclination -70°, Drilling Services - Reverse; TD 400'; Log THY 11-18-84

FEET FROM	FEET TO	FM	ROCK TYPE / STRUCTURE DESCRIPTION	Struc.	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	FeOx	%Py	%Sp	Sil	Ser	Chl. Epid	Arg	% qtz
0	5		light greenish gray,				No sample								
5	10		sericitized quartz porphyry				Oxidized - strong hm, lm, mod jar	+++				++			
10	15		schist				mod hm-lm-jar.	++				++			5
15	20						same - tr fresh py	++	tr			++			2
20	25						same	++				++			
25	30						wk hm-lm	+				++			2
30	35						same	+				++			
35	40						strong pink hm mod lm	+++				++			
40	45						mod lm-hm, tr fresh py	++	tr			++			2
45	50						Oxide - sulfide mix	++	1-3		+	++			5
50	55						tr. oxides		5-10		+++	+++			10
55	60						py slightly tarnished bleached		5-10		++	+++			2
60	65						bleached		3-5		+	+++			
65	70						same - tr anh		3-5			+++			2
70	75						same - tr. epid.		3-5			+++	tr Pp.		
75	80						same - minor tr. anh dark min?		1-3				tr Pp		
80	85						same		1-3			+++	tr epi		
85	90						pale green tr. anh.		1-3			+++			
90	95						same - tr black mn.		1-3			+++			2
95	100						same		1-3			+++			5

ASSAY RECORD

SAMPLE No.	FROM	TO	REC FT / %	SAMPLE LENGTH

Water - trickle at 200' 360-400, 4+05 g.p.m.

PROPERTY: Sugarloaf Peak SHEET No. 2/4 HOLE No. SWR-2

FEET		GEOLOGICAL LOG															ASSAY RECORD								
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																			
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	%Py	%Sp	Sil	Ser.	Ch Ep	Arg	%qtz		SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH				
100	105		greenish-gray, sericitized				py along foliation w/qtz		3-5	tc?	+	+++			5										
05	10		quartz porphyry				same - tc anh		3-5	tc?		+++			5										
10	15		schist				py brass tint.		5-10		+++	+++													
15	20								5-10	tc	+++	+++			2										
20	25						local brassy py.		5-10	tc+	++	+++			2										
25	30								5-10	tc?	+++	+++			5										
30	35						sp, wkly oxidized?		3-5	tc	+++	+++			5										
35	40								5-10	tc	+++	+++			2										
40	45								5-10	tc	+++	+++			5										
45	50								10-15	tc	+++	+++			5										
50	55								5-10	tc	++	+++			2										
55	60								3-5	tc	+	+++			2										
60	65						sp. black, rare oxid.?		3-5	tc?	++	+++			5										
65	70								5-10	tc?	++	+++			2										
70	75						med. gray - int. sil		10-15	tc	+++	+++			5										
75	80								5-10	tc	++	+++	tc ep.		2										
80	85								5-10	tc	+	+++			5										
85	90						tr. anh.		10-15	tc	++	+++			2										
90	95								5-10	tc	+++	+++			2										
195	200								5-10	tc	+++	+++			2										

PROPERTY: Sugarloaf Peak SHEET No. 3/4 HOLE No. SWR-2

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	FeOx	% Py	% Sp	Sil	Ser	Ch Ep	Arg	% qtz		SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH
200	205		greenish-gray sericitized				py along fol, light gray		5-10	tr	+	+++			5						
05	10		quartz porphyry schist						10-15	tr	++	+++			2						
10	15						lt. gray		5-10			+++									
15	20						med. gray		5-10	tr	+	+++									
20	25								3-5	tr		+++									
25	30								5-10			+++									
30	35								5-10	tr	+	+++									
35	40								3-5			+++				5					
40	45								5-10	tr		+++				20					
45	50						homogeneous schist		3-5			+++									
50	55								5-10	tr		+++									
55	60						qtz-py veinlets along fol.		5-10		+	+++									
60	65						fine py		5-10	tr		+++									
65	70								5-10	tr		+++									
70	75								5-10	tr		+++									
75	80								5-10	tr		+++									
80	85								5-10	tr		+++									
85	90								5-10	tr	+	+++									
90	95								3-10	tr		+++									
295	300						v. strong sericite.		5-10	tr		+++									

PROPERTY: Sugarloaf Peak SHEET No. 4/4 HOLE No. SWR-2

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE /. STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	F M	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	FeOx	%op	%sp	Sil	Ser	Cn Ep	Arg	% qtz		SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
300	305		greenish-gray, sericitized				med. green gray, strong ser		5-10	tc	++	+++			-											
05	10		quartz porphyry schist						5-10	tc	++	+++														
10	15								5-10	tc	+	+++														
15	20						darker green		10-15	tc	++	+++	tc ep													
20	25								5-10	tc	++	+++														
25	30								5-10	tc	++	+++														
30	35								5-10		++	+++														
35	40								10-15	tc	++	+++														
40	45								10-15	tc	++	+++	tc ep													
45	50								10-15	tc	++	+++														
50	55								10-15	tc	+++	+++														
55	60								10-15	tc	+++	+++														
60	65						One chip - 5% fresh, fine cp.?		5-10	tc+	++	+++	tc ep													
65	70						light green		5-10	tc	+	+++														
70	75								5-10	tc	+	+++	tc ep.													
75	80								5-10	tc	++	+++														
80	85								3-5		+	+++														
85	90								5-10	tc	+	+++														
90	95								3-5	tc		+++														
395	400								3-5	tc		+++														
	TD																									

PROPERTY: Sugarloaf Peak SHEET No. 1/4 HOLE No. SWR-3

Township: Sec. 33, T 4N, R 20W	Collar co-ordinates: Water at 310 ft. - 400 ft	Dip Tests (true dips):	Total Depth: 400'
Range: La Paz Co., Arizona	Collar elevation: 1-2 g.p.m.	At:	Core Size: to ft.
Lot:	Bearing: —	At:	: to ft.
Claim No.	Inclination: -90°	At:	Drilled by: Drilling Services - Reverse
Date started: 11-16-84	Date completed: 11-17-84	At:	Logged by: T. Young 12-7-84

FEET		GEOLOGICAL LOG															ASSAY RECORD								
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																			
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	% py	Sil	Ser	cl ep	unid. orid. sulf.	unid. blk. min	% qtz	% osp	Arg	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
0	5		no sample																						
5	10		bleached, oxid. schist				strong alun.-jar, mod. lm		+++	+															
10	15		same				wk-mod lm-jar, mod. lm/py		++	+															
15	20		same				same - strong red. hm mod. lm/py		++	+				5											
20	25		same				same - wk-mod hm			++															
25	30		same				wk lm-hm-jar			++															
30	35		same				same			++															
35	40		same				mod. jar-lm, mod. pink hm stain			++				tc											
40	45		mixed oxid > sulf.				wk jar-lm-hm	1		++															
45	50		same				mod red hm stain			++															
50	55		mixed light green schist sulf > oxid.				mod lm-jar or oxidized cl.	1		+++															
55	60		light gray schist				wk tan. py	1-3		++				5		?									
60	65		same				fresh py	1-3		++				5		?									
65	70		mod-lt green-gray schist					3-5	++	++				5											
70	75		mod gray & lt. gray				75% chips strong sil	3-5	+++	++															
75	80		mod. lt. gray					3-5	+	+++															
80	85		same					1-3	+	+++															
85	90		same					1-3	+	+++				tc											
90	95		mixed lt. & dk gray				50% chip - int. sil w/py	1-3	++	++															
95	100		mod. lt. gray					1-3		+++			tc												

water @ 300 ft., 1-2 g.p.m. @ 400'

PROPERTY: Sugarloaf Peak SHEET No. 2/4 HOLE No. SWR-3

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	F M	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	% Py	Sil	Ser	Ch Ep	Unid. Oxid. Sulf.	Unid blk. min	% qtz	% sp	Arg	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
100	105		dark green schist				wk torn. py, wk oxid. powder on fracs	1-3		++	++ ch.			bull 40												
5	10		Same					1-3		++	++ ch	+c.														
10	15		lt. green-gray schist				tc, gal(?)-sphalerite (thinner colored)	1-3		+++		+c		5	+c											
15	20		med. green-gray					3-5	+	+++		+c+														
20	25		Same				tc. oxid. powder on fracs, mod. ep. on fracs	1-3		++	ep ++	+c+														
25	30		same				mod. ch	1-3		++	ch ++	+c														
30	35		dk green				chl. - strong	1-3		+	e-c +++	+c+	+c													
35	40		Same				same	1-3		+	e-c +++	+c+														
40	45		Same				strong ch-ep	1-3			e-c +++	+c														
45	50		Same				torn. py mod ch-ep 5% oxid. chips (rust.)	1-3			epch ++	+c+														
50	55		mod. gray				minor oxid chips	1-3		++	~~epch~~ +	+c+														
55	60		Same					1-3	+++	+	ep +	+c+														
60	65		lt. green-gray					1-3	+	++		+c+														
65	70		same					1-3		+++		+c														
70	75		Same					1-3		+++		+c+														
75	80		v. lt. green-gray					1-3		+++		+c														
80	85		Same				local torn. py	1-3		+++		+c														
85	90		med. gray-green				occass strong gal? (fine gn)	1-3	++	++		+c+														
90	95		lt. gray					1-3	++	+		+c														
195	200		Same				occas. strong fn. gn gal. (?)	1-3	+	+++		+c														

PROPERTY: Sugarloaf Peak SHEET No. 3/4 HOLE No. SWR-3

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION										ASSAY RECORD									
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	% py	Sil	Ser.	ep. ch	unid. oxid. sulf	unid. blk. min	% qtz	% sp	Arg.	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
200	205		med. green-gray schist					1-3		+++		tc+														
5	10		med-lt. green-gray					1-3	+	+++		tc														
10	15		Same					1-3	+	++		tc														
15	20		med. green					1-3	++	++		tc+														
20	25		Same					1-3	++	++		tc														
25	30		Same					1-3	+	++		tc+														
30	35		lt.-med. green					1-3	+++	+		tc+														
35	40		lt. green-gray					1-3		+++		tc+	tc													
40	45		Same					1-3	++	+		tc														
45	50		Same					1-3	++	++		tc+														
50	55		Same					3-5	+++	+		tc+														
55	60		Same					1-3	++	++		tc+	tc													
60	65		Same					1-3	+	+++		tc														
65	70		Same					1-3	++	+++		tc+	tc													
70	75		Same				minor bleach chips (Arg?)	1-3	+	++		tc				7										
75	80		Same					1-3		++		tc		bull 20												
80	85		Same					1-3		+++		tc														
85	90		Same					1-3		+++		tc														
90	95		Same					1-3		+++		tc														
295	300		med. green-gray					1-3	+	+++	tc ep.	tc														

PROPERTY: Sugarloaf Peak SHEET No. 4/4 HOLE No. SWR-3

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	%Py	Sil	Ser.	ch ep	unid. oxid. sulf.	unid. blk. min.	% galena	% sp	Avg.
300	305		med-dk green-gray schist					1-3	+	+++		+c+				
5	10		same					3-5	++	+++		+c+				
10	15		light gray					1-3	+	+++		+c				
15	20		Same					1-3	+	+++						
20	25		same					1-3	+	+++		+c				
25	30		same					1-3	+	+++		+c				
30	35		↓					1-3	+	+++		+c				
35	40							1-3	+	+++		+c				
40	45							1-3	+	+++		+c				
45	50							1-3	+	+++		+c	+c			
50	55							1-3	++	+++		+c	+c			
55	60		↓					1-3	++	+++		+c				
60	65		greyish					1-3	+++	++		+c		5		
65	70		↓					1-3	+	++		+c	+c			
70	75		light green-gray					1-3	+	+++						
75	80		↓					1-3	+	+++						
80	85							1-3	+	+++		+c		5		
85	90							1-	+	+++		+c				
90	95							1	+	+++		+c				
395	400		↓					1	+	+++		+c				

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					

PROPERTY: Sugarloaf Peak SHEET No. 1/4 HOLE No. SWR-4

Township: Sec. 4, T 3N, R20W	Collar co-ordinates:	Dip Tests (true dips):	Total Depth: 400'
Range: La Paz Co., Arizona	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing: 180°	At:	: to ft.
Claim No.	Inclination: -70°	At:	Drilled by: O. S.-Reverse
Date started: 11-17-84	Date completed: 11-18-84	At:	Logged by: T. Young

GEOLOGICAL LOG

FEET FROM	FEET TO	F M	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	%py	Sil.	Ser.	ch. ep.	unid. oxid. sulf.	unid. black min.	% bull qtz	%sp	Arg.
0	5		no sample													
5	10		bleached, white schist					Strg 1m	1	++						
10	15									++						
15	20									++						
20	25									++						
25	30									++						
30	35		light gray-green schist					1		+++						
35	40							1		+++						
40	45						wk jar	1		+++						
45	50							1		+++						
50	55							1-3	++	+++						
55	60							1-3	++	+++						
60	65							1		+++						
65	70							1-3		+++	tr ep					
70	75							1		+++		tr				
75	80							1	+	+++						
80	85							1-3		+++		tr				
85	90							1		+++		tr				
90	95							1		+++		tr				
95	100							1		+++		tr				

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					

PROPERTY: Sugarloaf Peak SHEET No. 2/4 HOLE No. SWR-4

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	FM	ROCK TYPE / STRUCTURE DESCRIPTION	Struc	LOG	LOG	ALTERATION / MINERALIZATION DESCRIPTION	%py	Sil.	Ser.	ch. ep.	unid. oxid. sulf.	unid. black min.	% bull qtz	%sp	Arg.
100	105		Very light gray schist					1-3		+++		+c				
5	10							1		+++		+c				
10	15							1-3		+++						
15	20							1-3		+++						
20	25							1-3		+++						
25	30							1-3	+	+++						
30	35						tc. arb.	1-3	++	+++						
35	40							1		+++		+c				
40	45							3-5	+++	+++	+c ep	+c				
45	50							½-1		+++		+c				
50	55							1		+++						
55	60							1		+++						
60	65							1		+++		+c				
65	70							½-1		+++		+c				
70	75							1		+++		+c				
75	80							1	++	+++	+c ep	+c				
80	85							1-3	++	+++	+c ep					
85	90							1		+++		+c				
90	95							1		+++		+c				
195	200							1		+++						

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					

PROPERTY: Sugarloaf Peak SHEET No. 3/4 HOLE No. SWR-4

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

FEET		GEOLOGICAL LOG															ASSAY RECORD									
		ROCK TYPE / STRUCTURE				ALTERATION / MINERALIZATION																				
FROM	TO	FM	DESCRIPTION	Struc	LOG	LOG	DESCRIPTION	%py	Sil.	Ser.	ch. ep.	unid. oxid. sulf.	unid. black min.	% bull qtz	%sp	Arg.	SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					
200	205		light gray schist					1		+++																
5	10							1-3		+++																
10	15							1-3		++2		+c														
15	20							1-3		++2		+c														
20	25							3-5		+++		+c														
25	30							1-3		+++																
30	35							3-5		+++		+c														
35	40							1-3		+++		+c														
40	45							1		+++		+c														
45	50							1		+++																
50	55							1-3		+++		+c														
55	60							3-5		+++	+c ep	+c														
60	65							1-3	+	+++		+c														
65	70							3-5	++	+++		+c		5												
70	75							1-3	+++	+++																
75	80							+5	++	+++		+c														
80	85							3-5	++	+++		+c														
85	90							3-5	++	+++																
90	95							1-3	+	+++		+c														
295	300							1-3	+																	

PROPERTY: Sugarloof Peak SHEET No. 4/4 HOLE No. SWR-K

Township:	Collar co-ordinates:	Dip Tests (true dips):	Total Depth:
Range:	Collar elevation:	At:	Core Size: to ft.
Lot:	Bearing:	At:	: to ft.
Claim No.	Inclination:	At:	Drilled by:
Date started:	Date completed:	At:	Logged by:

GEOLOGICAL LOG

FEET FROM	FEET TO	ROCK TYPE / STRUCTURE: FM	DESCRIPTION	Struc	LOG	ALTERATION / MINERALIZATION: LOG	DESCRIPTION	%Py	Sil.	Ser.	ch. ep.	unid. oxid. sulf.	unid. black min.	% bull qtz	%sp	Arg.
300	305		light gray schist				greenish gray	1	+			+c				
5	10							1-3	+							
10	15							1-3	+			+c				
15	20						bleached	1		++						
20	25							1		++						
25	30							1		++		+c				
30	35						greenish gray	1-3	+	+++		+c				
35	40							1-3	++	+++		+c				
40	45							1-3		++		+c				
45	50							1-3		++						
50	55							1-3		++		+c				
55	60							1-3		++		+c				
60	65							1		++		+c				
65	70							1		++		+c				
70	75							1-3	++	++				50		
75	80							1-3		++		+c				
80	85							1-3		++		+c				
85	90							1		++						
90	95							1		++				80		
395	400															

ASSAY RECORD

SAMPLE No.	FROM	TO	REC. FT. / %	SAMPLE LENGTH					

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-1
Bearing: 30°
Inclination: -70°
Completed: 11-14-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	.006	150-155	.031	300-305	.004 (.005)**
5- 10	.032	155-160	.019 (.020)**	305-310	.008
10- 15	.030	160-165	.029 (.028)*	310-315	.007
15- 20	.005 (.004)**	165-170	.015	315-320	.008
20- 25	.007	170-175	.018	320-325	.011
25- 30	.003	175-180	.012	325-330	.004
30- 35	.011	180-185	.013	330-335	.005
35- 40	.006 (.006)*	185-190	.010	335-340	.006 (.005)*
40- 45	.005	190-195	.009	340-345	.003
45- 50	.014	195-200	.016	345-350	.002
50- 55	.027	200-205	.012	350-355	.020
55- 60	.009	205-210	.006	355-360	.008
60- 65	.029	210-215	.007	360-365	.011
65- 70	.018	215-220	.008	365-370	.005
70- 75	.026	220-225	.003	370-375	.006
75- 80	.012	225-230	.008	375-380	.009 (.011)**
80- 85	.004	230-235	.005	380-385	.004
85- 90	.003 (.004)**	235-240	.007 (.015)**	385-390	.004
90- 95	.003	240-245	.006	390-395	.006
95-100	.003	245-250	.003 (.006)*	395-400 TD	.006
100-105	.004	250-255	.003		
105-110	.006	255-260	.003		
110-115	.008	260-265	.010		
115-120	.007	265-270	.012		
120-125	.011	270-275	.011		
125-130	.005	275-280	.005		
130-135	.006	280-285	.003		
135-140	.008	285-290	.005		
140-145	.021	290-295	.008		
145-150	.017	295-300	.004		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT — assay results from reverse circulation drilling

Hole: SWR-2
Bearing: 0°
Inclination: -70°
Completed: 11-15-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.016	300-305	.013
5- 10	.014	155-160	.008	305-310	.023
10- 15	.033	160-165	.019	310-315	.033
15- 20	.009	165-170	.005	315-320	.052
20- 25	.016	170-175	.018	320-325	.008
25- 30	.006	175-180	.034	325-330	.008
30- 35	.002	180-185	.005	330-335	.007
35- 40	.013	185-190	.027	335-340	.005
40- 45	.022 (.023)**	190-195	.006	340-345	.014
45- 50	.018	195-200	.008	345-350	.018
50- 55	.021	200-205	.014 (.013)**	350-355	.006
55- 60	.011	205-210	.011	355-360	.005 (.007)*
60- 65	.008	210-215	.006	360-365	.004
65- 70	.007	215-220	.017	365-370	.010
70- 75	.009 (.011)**	220-225	.006	370-375	.006
75- 80	.003	225-230	.008	375-380	.006 (.006)**
80- 85	.031	230-235	.003	380-385	.022
85- 90	.005	235-240	.008 (.006)**	385-390	.003
90- 95	.034 (.033)*	240-245	.003	390-395	.001
95-100	.020	245-250	.004 (.006)*	395-400 TD	.003
100-105	.020	250-255	.005		
105-110	.009	255-260	.002		
110-115	.004	260-265	.006		
115-120	.005	265-270	.007		
120-125	.034	270-275	.009		
125-130	.014	275-280	.014		
130-135	.011	280-285	.010		
135-140	.015 (.021)*	285-290	.015		
140-145	.008	290-295	.011 (.015)**		
145-150	.058	295-300	.007		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-3
Bearing: --
Inclination: -90°
Completed: 11-17-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.005	300-305	.007 (.009)*
5- 10	.003	155-160	.005	305-310	.006
10- 15	.001	160-165	.007 (.008)**	310-315	.013 (.008)**
15- 20	.014	165-170	.004	315-320	.003
20- 25	.002 (.002)**	170-175	.003	320-325	.003
25- 30	.003	175-180	.001	325-330	.005
30- 35	.001	180-185	.009	330-335	.006
35- 40	.008	185-190	.008	335-340	.002
40- 45	.011	190-195	.005	340-345	.003
45- 50	.048 (.050)*	195-200	.010	345-350	.003
50- 55	.015	200-205	.012	350-355	.005 (.006)**
55- 60	.021	205-210	.010	355-360	.005
60- 65	.011	210-215	.010	360-365	.006
65- 70	.013	215-220	.011	365-370	.013
70- 75	.003	220-225	.011	370-375	.021
75- 80	.009	225-230	.009	375-380	.010
80- 85	.003	230-235	.013	380-385	.007
85- 90	.006	235-240	.005	385-390	.009
90- 95	.002 (.002)**	240-245	.008 (.005)**	390-395	.006
95-100	.003	245-250	.011	395-400 TD	.009
100-105	.009	250-255	.006		
105-110	.011	255-260	.007		
110-115	.004	260-265	.006		
115-120	.006	265-270	.007		
120-125	.006	270-275	.004		
125-130	.006 (.006)*	275-280	.003		
130-135	.004	280-285	.006		
135-140	.005	285-290	.010		
140-145	.010	290-295	.006		
145-150	.005	295-300	.007		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT — assay results from reverse circulation drilling

Hole: SWR-4
Bearing: 180°
Inclination: -70°
Completed: 11-18-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.045	300-305	.013
5- 10	.002	155-160	.017	305-310	.009
10- 15	.001	160-165	.007 (.007)**	310-315	.007 (.008)**
15- 20	.016	165-170	.007 (.006)*	315-320	.003 (.003)*
20- 25	.006 (.008)**	170-175	.006	320-325	.004
25- 30	.007	175-180	.008	325-330	.011
30- 35	.016	180-185	.023	330-335	.003
35- 40	.013	185-190	.010	335-340	.005
40- 45	.013	190-195	.006	340-345	.005
45- 50	.006	195-200	.003	345-350	.009
50- 55	.004	200-205	.002	350-355	.009
55- 60	.007	205-210	.003	355-360	.006
60- 65	.013	210-215	.003	360-365	.004
65- 70	.018	215-220	.004	365-370	.003
70- 75	.009	220-225	.034	370-375	.002
75- 80	.004	225-230	.004	375-380	.007 (.008)**
80- 85	.013	230-235	.004	380-385	.010
85- 90	.006	235-240	.003	385-390	.009
90- 95	.005 (.006)**	240-245	.003 (.003)**	390-395	.004
95-100	.005	245-250	.004	395-400 TD	.004 (.004)*
100-105	.013	250-255	.003		
105-110	.009	255-260	.003		
110-115	.005 (.005)*	260-265	.003		
115-120	.013	265-270	.008		
120-125	.016	270-275	.012		
125-130	.011	275-280	.017		
130-135	.017	280-285	.012		
135-140	.021	285-290	.029		
140-145	.046	290-295	.014		
145-150	.004	295-300	.017		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-5
Bearing: 0°
Inclination: -60°
Completed: 11-19-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.006	300-305	.005
5- 10	.006 (.005)*	155-160	.005 (.006)*	305-310	.008
10- 15	.003	160-165	.003 (.004)**	310-315	.005 (.007)**
15- 20	.004	165-170	.003	315-320	.005
20- 25	.006 (.009)**	170-175	.005	320-325	.003
25- 30	.006	175-180	.012	325-330	.007
30- 35	.005	180-185	.009	330-335	.009
35- 40	.002	185-190	.008	335-340 TD	.007
40- 45	.003	190-195	.010		
45- 50	.008	195-200	.055		
50- 55	.002	200-205	.010		
55- 60	.004	205-210	.004		
60- 65	.007	210-215	.003		
65- 70	.013	215-220	.002		
70- 75	.004	220-225	.004		
75- 80	.005	225-230	.010		
80- 85	.007	230-235	.012		
85- 90	.006	235-240	.103 (.091)*		
90- 95	.004 (.006)**	240-245	.022 (.033)**		
95-100	.008	245-250	.003		
100-105	.007	250-255	.005		
105-110	.008	255-260	.016		
110-115	.016	260-265	.006		
115-120	.021	265-270	.005		
120-125	.027	270-275	.005		
125-130	.028	275-280	.004		
130-135	.013	280-285	.009		
135-140	.009	285-290	.004		
140-145	.055	290-295	.005		
145-150	.012	295-300	.004		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT — assay results from reverse circulation drilling

Hole: SWR-6
Bearing: 30°
Inclination: -60°
Completed: 11-21-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.010	300-305	.003 (.003)*
5- 10	.006	155-160	.031 (.053)**	305-310	.003
10- 15	.005	160-165	.011	310-315	.007 (.006)**
15- 20	.005	165-170	.007	315-320	.007
20- 25	.009 (.009)**	170-175	.007	320-325	.006
25- 30	.011	175-180	.010	325-330	.005
30- 35	.016	180-185	.007	330-335	.007
35- 40	.020	185-190	.007	335-340	.006
40- 45	.018	190-195	.005	340-345	.012
45- 50	.009	195-200	.007	345-350	.010
50- 55	.020 (.020)*	200-205	.003 (.003)*	350-355	.009
55- 60	.019	205-210	.002	355-360	.005
60- 65	.009	210-215	.004	360-365	.004
65- 70	.016	215-220	.005	365-370	.005
70- 75	.012	220-225	.008	370-375	.009
75- 80	.029	225-230	.010	375-380	.004
80- 85	.034	230-235	.004	380-385	.006 (.006)**
85- 90	.010	235-240	.003	385-390	.004
90- 95	.020 (.024)**	240-245	.001 (.002)**	390-395 TD	.006
95-100	.005	245-250	.001		
100-105	.007	250-255	.003	340-350	.009
105-110	.008	255-260	.001	350-360	.006
110-115	.004	260-265	.003	360-370	.005
115-120	.004	265-270	.005	370-380	.008
120-125	.004	270-275	.005	380-390	.007
125-130	.013	275-280	.004		
130-135	.004	280-285	.003	340-360	.006
135-140	.003	285-290	.004	360-380	.005
140-145	.004	290-295	.004	380-395 TD	.004 (.004)*
145-150	.006	295-300	.005		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-7
Bearing: 170°
Inclination: -60°
Completed: 11-27-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.011	300-305	.007
5- 10	.007	155-160	.012	305-310	.015
10- 15	.007	160-165	.002 (.004)**	310-315	.003 (.003)**
15- 20	.008 (.014)*	165-170	.020	315-320	.005
20- 25	.035 (.079)**	170-175	.004	320-325	.007
25- 30	.062	175-180	.027 (.027)*	325-330	.010
30- 35	.012	180-185	.009	330-335	.011 (.011)*
35- 40	.011	185-190	.012	335-340	.003
40- 45	.006	190-195	.012	340-345	.002 (.002)*
45- 50	.012	195-200	.017	345-350	.001
50- 55	.017	200-205	.013	350-355	.010
55- 60	.012	205-210	.005	355-360	.006
60- 65	.007	210-215	.003	360-365	.002
65- 70	.004	215-220	.006	365-370	.002
70- 75	.008	220-225	.003	370-375	.003
75- 80	.012	225-230	.007	375-380	.002
80- 85	.012	230-235	.002	380-385	.007 (.004)**
85- 90	.006	235-240	.002	385-390	.005
90- 95	.012 (.013)**	240-245	.001 (.002)**	390-395	.004
95-100	.012	245-250	.002	390-400 TD	.006
100-105	.008	250-255	.002		
105-110	.010	255-260	.002	380-390	.012
110-115	.013	260-265	.003	390-400	.005
115-120	.008	265-270	.002		
120-125	.009	270-275	.002	320-340	.012
125-130	.012	275-280	.002	340-360	.002
130-135	.005	280-285	.004	360-380	.004
135-140	.022	285-290	.004	380-400	.006
140-145	.003	290-295	.008		
145-150	.003	295-300	.036		

(assay repeat) *Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-8
Bearing: 90°
Inclination: -45°
Completed: 11-27-84

Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.004
5- 10	.001	155-160	.002
10- 15	.001	160-165	.003 (.006)**
15- 20	.003	165-170	.003
20- 25	.007	170-175	.004
25- 30	.009	175-180	.006
30- 35	.001	180-185	.006
35- 40	.013	185-190	.003
40- 45	.037	190-195	.003
45- 50	.004	195-200	.002 (.003)**
50- 55	.004	200-205	.003
55- 60	.003	205-210	.005
60-65	.003	210-215	.004
65- 70	.002	215-220	.007
70- 75	.004	220-225	.003
75- 80	.004 (.005)**	225-230	.008
80- 85	.016	230-235	.011 (.009)*
85- 90	.011	235-240	.008
90- 95	.006 (.004)*	240-245	.006
95-100	.002	245-250	.006
100-105	.002	250-255	.004
105-110	.002	255-260	.009
110-115	.005	260-265	.007
115-120	.009	265-270	.004
120-125	.004	270-275	.004 (.005)**
125-130	.003	275-280	.004
130-135	.003	280-285	.004
135-140	.001	285-290	.006
140-145	.006 (.004)*	290-295	.004
145-150	.003	295-300 TD	.006

(assay repeat) * Amselco Lab
** Monitor Lab
++ Skyline

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-9
Bearing: 210°
Inclination: -70°
Completed: 11-30-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.006	300-305	.002
5- 10	.012	155-160	.005 (.006)**	305-310	.007
10- 15	.024	160-165	.004	310-315	.005
15- 20	.002	165-170	.002	315-320	.007
20- 25	.003	170-175	.006	320-325	.009
25- 30	.001	175-180	.006	325-330	.002
30- 35	.004 (.004)**	180-185	.005	330-335	.003
35- 40	.002	185-190	.016	335-340	.002
40- 45	.006	190-195	.006 (.006)*	340-345	.009 (.005)*
45- 50	.007	195-200	.002	345-350	.004
50- 55	.008	200-205	.004	350-355	.005
55- 60	.006	205-210	.005	355-360	.009
60- 65	.004	210-215	.004	360-365	.008
65- 70	.002	215-220	.003	365-370	.002
70- 75	.002	220-225	.005	370-375	.005 (.006)**
75- 80	.003	225-230	.003	375-380	.003
80- 85	.006 (.006)**	230-235	.002	380-385	.003
85- 90	.008	235-240	.004 (.006)**	385-390	.006
90- 95	.003	240-245	.004	390-395	.006
95-100	.002 (.003)*	245-250	.012 (.012)*	395-400 TD	.011
100-105	.012	250-255	.006		
105-110	.004	255-260	.003		
110-115	.006	260-265	.004		
115-120	.008	265-270	.002		
120-125	.002	270-275	.011		
125-130	.003	275-280	.008		
130-135	.004	280-285	.005		
135-140	.003	285-290	.007 (.008)**		
140-145	.004	290-295	.003		
145-150	.006	295-300	.007		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-10
Bearing: 170°
Inclination: -70°
Completed: 12-2-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.004	300-305	.003
5- 10	.005	155-160	.004	305-310	.003 (.003)**
10- 15	.001	160-165	.005	310-315	.003
15- 20	.010	165-170	.005	315-320	.002
20- 25	.010	170-175	.018	320-325	.004
25- 30	.003	175-180	.007 (.008)**	325-330	.003
30- 35	.002	180-185	.008	330-335	.004
35- 40	.004 (.005)**	185-190	.011	335-340	.006
40- 45	.007	190-195	.011	340-345	.002
45- 50	.003	195-200	.003	345-350	.002
50- 55	.002	200-205	.002 (.002)*	350-355	.010
55- 60	.002	205-210	.004	355-360	.004 (.006)**
60- 65	.004	210-215	.006	360-365	.007
65- 70	.006	215-220	.004	365-370	.005
70- 75	.005	220-225	.004	370-375	.013
75- 80	.004	225-230	.013	375-380	.006 (.010)*
80- 85	.005	230-235	.016	380-385	.009 (.009)**
85- 90	.004 (.002)*	235-240	.006	385-390	.005 (.010)**
90- 95	.003	240-245	.006	390-395	.003
95-100	.004	245-250	.003 (.004)**	395-400 TD	.004
100-105	.004	250-255	.005		
105-110	.003	255-260	.004		
110-115	.002	260-265	.003 (.003)*		
115-120	.001	265-270	.004		
120-125	.008	270-275	.003		
125-130	.006	275-280	.003		
130-135	.004	280-285	.003		
135-140	.008	285-290	.003		
140-145	.008	290-295	.005		
145-150	.003	295-300	.006		

(assay repeat) * Amsolco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-11
Bearing: 160°
Inclination: -70°
Completed: 12-3-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.006	300-305	.008
5- 10	.005	155-160	.012	305-310	.004 (.005)*
10- 15	.005	160-165	.012	310-315	.002
15- 20	.001	165-170	.013	315-320	.004
20- 25	.007	170-175	.011	320-325	.006
25- 30	.006	175-180	.011	325-330	.009
30- 35	.004	180-185	.009	330-335	.004
35- 40	.004	185-190	.007	335-340	.003
40- 45	.012	190-195	.009	340-345	.003
45- 50	.004	195-200	.011	345-350	.010
50- 55	.010 (.012)**	200-205	.007 (.006)**	350-355	.005 (.007)**
55- 60	.006	205-210	.004	355-360	.008
60- 65	.004	210-215	.006	360-365	.006
65- 70	.007	215-220	.003	365-370	.012
70- 75	.002	220-225	.009	370-375	.009
75- 80	.005	225-230	.004	375-380	.008 (.006)*
80- 85	.004 (.003)*	230-235	.004	380-385	.018
85- 90	.005	235-240	.012	385-390	.023
90- 95	.004	240-245	.011	390-395	.017
95-100	.004	245-250	.007	395-400 TD	.005 (.007)**
100-105	.003	250-255	.010		
105-110	.004	255-260	.008	350-360	.004
110-115	.003	260-265	.003	360-370	.006
115-120	.009	265-270	.006	370-380	.007
120-125	.007 (.007)*	270-275	.003 (.003)**	380-390	.011
125-130	.007	275-280	.003	390-400 TD	.007
130-135	.006 (.006)**	280-285	.005		
135-140	.010	285-290	.007		
140-145	.012	290-295	.011		
145-150	.012	295-300	.004		

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT — assay results from reverse circulation drilling

Hole: SWR-12
Bearing: 200°
Inclination: -70°
Completed: 12-4-84

Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	.009
5- 10	no.sample	155-160	.002
10- 15	.001	160-165	.005
15- 20	.001	165-170	.009
20- 25	.002	170-175	.003
25- 30	-.001 (.001)*	175-180	.003
30- 35	.001	180-185	.004
35- 40	.001	185-190	.004 (.005)*
40- 45	.003	190-195	.005
45- 50	.006	195-200	.001
50- 55	.003	200-205	.003 (.007)**
55- 60	.001 (.002)**	205-210	.005
60- 65	.006	210-215	.005
65- 70	.007	215-220	.004
70- 75	.010	220-225	.006
75- 80	.001	225-230	.007
80- 85	.002	230-235	.007
85- 90	.002	235-240	.007
90- 95	.003	240-245	.006 (.006)*
95-100	.003	245-250	.003
100-105	.005	250-255	.006
105-110	.003	255-260	.004
110-115	.003	260-265	.003
115-120	.005	265-270	.003
120-125	.003	270-275	.007
125-130	.005	275-280	.005 (.008)**
130-135	.004	280-285	.002
135-140	.007 (.009)**	285-290	.009
140-145	.008	290-295	.003
145-150	.006	295-300 TD	.002

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT — assay results from reverse circulation drilling

Hole: SWR-13
Bearing: 160°
Inclination: -70°
Completed: 12-5-84

Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	.003	150-155	.004
5- 10	.012	155-160	.011 (.008)**
10- 15	.007	160-165	.004
15- 20	.003 (.005)**	165-170	.004
20- 25	.008	170-175	.006
25- 30	.008	175-180	.006
30- 35	.008	180-185	.006
35- 40	.011	185-190	.008 (.009)*
40- 45	.011	190-195	.009
45- 50	.008	195-200	.009
50- 55	.008	200-205	.003
55- 60	.011	205-210	.005
60- 65	.007	210-215	.004
65- 70	.009	215-220	.004
70- 75	.011	220-225	.003
75- 80	.007	225-230	.003
80- 85	.017 (.019)**	230-235	.002
85- 90	.015	235-240	.003 (.003)**
90- 95	.022	240-245	.002
95-100	.011 (.006)*	245-250	.001
100-105	.006	250-255	.003
105-110	.011	255-260	.001
110-115	.011	260-265	.002
115-120	.003	265-270	.004
120-125	.005	270-275	.004
125-130	.010	275-280	.002
130-135	.008	280-285	.003
135-140	.003	285-290	.004
140-145	.003	290-295	.004
145-150	.004	295-300 TD	.007

(assay repeats) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-14
Bearing: 180°
Inclination: -40°
Completed: 12-10-84

Interval	Au (oz/t)	Interval	Au (oz/t)	Interval	Au (oz/t)
0- 5	no sample	150-155	-.001	300-305	.001
5- 10	.002	155-160	-.001	305-310	.001
10- 15	.003	160-165	-.001	310-315	.001
15- 20	-.001	165-170	-.001	315-320	.001
20- 25	.001	170-175	-.001	320-325	.001
25- 30	-.001	175-180	.001	325-330	.001
30- 35	-.001	180-185	-.001	330-335	.001
35- 40	-.001	185-190	-.001	335-340	-.001
40- 45	.001	190-195	-.001	340-345	.001
45- 50	.001	195-200	-.001	345-350	.001
50- 55	-.001	200-205	-.001	350-355	.007 (.007)*
55- 60	-.001	205-210	-.001	355-360	.001
60- 65	.001	210-215	-.001	360-365	.001
65- 70	-.001	215-220	.001	365-370	.001
70- 75	-.001	220-225	-.001	370-375	.001
75- 80	-.001	225-230	-.001	375-380	.001
80- 85	-.001	230-235	-.001	380-385	.001
85- 90	-.001 (-.001)*	235-240	-.001	385-390	.001
90- 95	.001 (-.001)**	240-245	-.001	390-395	-.001
95-100	-.001	245-250	.001	395-400	.001
100-105	-.001	250-255	.001	400-405	-.001
105-110	.001	255-260	.001 (.001)*	405-410	.001
110-115	-.001	260-265	.001	410-415	.001
115-120	.001	265-270	-.001	415-420	.001
120-125	.001	270-275	-.001	420-425	-.001
125-130	.001 (-.001)*	275-280	-.001	425-430	.001
130-135	-.001	280-285	-.001	430-435	-.001
135-140	-.001	285-290	.001	435-440	.001
140-145	-.001	290-295	.001	440-445	.001
145-150	.001	295-300	.002	445-450	-.001

(assay repeat) * Amselco Lab
** Monitor Lab

SUGARLOAF PEAK PROJECT -- assay results from reverse circulation drilling

Hole: SWR-14
Bearing: 180°
Inclination: -40°
Completed: 12-10-84

Interval	Au (oz/t)	Interval	Au (oz/t)
450-455	-.001	600-605	.001
455-460	.001	605-610	.001
460-465	.001	610-615	.001
465-470	.001	615-620	.001
470-475	.001	620-625	.002
475-480	.001	625-630	.002
480-485	.001	630-635	.002 (.002)*
485-490	.001	635-640	.002
490-495	.001	640-645	.001
495-500	.001	645-650	.002
500-505	.001 (.001)*	650-655	.003
505-510	.001	655-660	.002 (.003)**
510-515	.001	660-665	.001
515-520	.001 (-.001)**	665-670	.001
520-525	-.001	670-675	.001
525-530	.001	675-680	.002
530-535	-.001	680-685	.002
535-540	.001	685-690	.003
540-545	-.001	690-695	.003
545-550	-.001	695-700	.003
550-555	.001	700-705	.003
555-560	-.001	705-710	.003
560-565	.001	710-715	.002
565-570	.001	715-720	.003
570-575	.001	720-725	.004
575-580	.001	725-730	.006
580-585	.001	730-735	.004
585-590	.001 (.001)**	735-740 TD	.003 (.004)**
590-595	.002		
595-600	.003		

(assay repeat) *Amselco Lab
**Monitor Lab

Drilling Results
SUGARLOAF PEAK PROJECT
Hole: SWR-15 (reverse circulation)
Bearing: 290°
Inclination: -50°

Interval	Au (oz/t)
15- 20	-0.001
25- 30	-0.001
35- 40	-0.001
45- 50	-0.001
55- 60	-0.001
65- 70	0.001
75- 80	0.002
85- 90	0.001
95-100	0.001
105-110	0.007
115-120	0.003
125-130	-0.001
135-140	-0.001
145-150	-0.001
155-160	0.001
165-170	-0.001
175-180	-0.001
185-190	-0.001
195-200	0.001
205-210	-0.001
215-220	-0.001
225-230	-0.001
235-240	0.001
245-250 (EOH)	0.001

JOB NUMBER:	857094 D
DATE REPORTED:	8/30/85
* PREP LAB:	PHOENIX
* ANAL LAB:	SPARKS
* LAB RCVD:	8/27/85
* PREP DATE:	
* PREP CODE:	
* SHIPMENT DATE:	7/25/85
* TYPE:	B
* PROJ LOCATION:	9569
*	
* NO. OF SAMPLES:	25
* ORIGINATOR:	KEATING
* LOCATION:	PHOENIX 23
* TRAY NO.:	857416
*	
* INSTRUCTIONS:	AU: FA/AA *OZ/T
*	
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*	
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*	

* SAMPLE ID *		ELEMENT:	AU	AU
		DIGEST CODE:		
		ANALYSIS:	FA/AA	FA/AA
		UNITS:	PPM	OZ/T
		Sw R-15		
857094	1	15-20	LO. 02	LO. 001
857094	2	25-30	LO. 02	LO. 001
857094	3	35-40	LO. 02	LO. 001
857094	4	45-50	LO. 02	LO. 001
857094	5	55-60	LO. 02	LO. 001
857094	6	65-70	0. 05	0. 001
857094	7	75-80	0. 06	0. 002
857094	8	85-90	0. 02	0. 001
857094	9	95-100	0. 02	0. 001
857094	10	105-110	0. 25	0. 007
857094	11	115-120	0. 09	0. 003
857094	12	Control L	0. 78	0. 023
857094	13	125-130	LO. 02	LO. 001
857094	14	135-140	LO. 02	LO. 001
857094	15	145-150	LO. 02	LO. 001
857094	16	155-160	0. 04	0. 001
857094	17	165-170	0. 02	LO. 001
857094	18	175-180	LO. 02	LO. 001
857094	19	185-190	LO. 02	LO. 001
857094	20	195-200	0. 02	0. 001
857094	21	205-210	LO. 02	LO. 001
857094	22	215-220	LO. 02	LO. 001
857094	23	225-230	LO. 02	LO. 001
857094	24	235-240	0. 02	0. 001
857094	25	245-250	0. 02	0. 001

Drilling Results
SUGARLOAF PEAK PROJECT
Hole: SWR-16 (reverse circulation)
Bearing: 90°
Inclination: -50°

Interval	Au (oz/t)
10- 15	-0.001
20- 25	-0.001
30- 35	0.001
40- 45	-0.001
50- 55	-0.001
60- 65	0.001
70- 75	-0.001
80- 85	0.001
90- 95	0.011
100-105	0.001
110-115	0.001
120-125	0.006
130-135	0.001
140-145	0.001
150-155	0.001
160-165	0.001
170-175	0.001
180-185	0.001
190-195	0.001
200-205	0.001
210-215	0.004
220-225	0.001
230-235	0.001
240-245	0.001

(EOH 250)

* JOB NUMBER: 857100 D
* DATE REPORTED: 9/16/85
* PREP LAB: PHOENIX
* ANAL LAB: SPARKS
* LAB RCVD: 9/4/85
* PREP DATE:
* PREP CODE:
* SHIPMENT DATE: 8/30/85
* TYPE: B
* PROJ LOCATION: 9569
*
* NO. OF SAMPLES: 25
* ORIGINATOR: KEATING
* LOCATION: PHOENIX 23
* TRAY NO. : 857462
*
* INSTRUCTIONS: AU: FA/AA *OZ/T
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		ELEMENT:	AU	AU
		DIGEST CODE:		
		ANALYSIS:	FA/AA	FA/AA
SAMPLE ID		UNITS:	PPM	OZ/T
*		SWR-16		
857100	1	10 - 15	LO. 02	LO. 001
857100	2	20 - 25	LO. 02	LO. 001
857100	3	30 - 35	0. 02	0. 001
857100	4	40 - 45	LO. 02	LO. 001
857100	5	50 - 55	LO. 02	LO. 001
857100	6	60 - 65	0. 02	0. 001
857100	7	70 - 75	LO. 02	LO. 001
857100	8	80 - 85	0. 03	0. 001
857100	9	90 - 95	0. 36	0. 011
857100	10	100 - 105	0. 03	0. 001
857100	11	110 - 115	0. 03	0. 001
857100	12	120 - 125	0. 20	0. 006
857100	13	Control 6	0. 46	0. 013
857100	14	130 - 135	0. 02	0. 001
857100	15	140 - 145	0. 02	0. 001
857100	16	150 - 155	0. 04	0. 001
857100	17	160 - 165	0. 03	0. 001
857100	18	170 - 175	0. 04	0. 001
857100	19	180 - 185	0. 02	0. 001
857100	20	190 - 195	0. 02	0. 001
857100	21	200 - 205	0. 02	0. 001
857100	22	210 - 215	0. 14	0. 004
857100	23	220 - 225	0. 04	0. 001
857100	24	230 - 235	0. 02	0. 001
857100	25	240 - 245	0. 03	0. 001

Drilling Results
SUGARLOAF PEAK PROJECT
Hole: SWR-17 (reverse circulation)
Bearing: 150°
Inclination: -50°

Interval	Au (oz/t)
5- 10	0.001
15- 20	-0.001
25- 30	0.001
35- 40	0.001
45- 50	0.027
55- 60	-0.001
65- 70	-0.001
75- 80	-0.001
85- 90	-0.001
95-100	-0.001
105-110	0.001
115-120	-0.001
125-130	0.001
135-140	0.002
145-150	0.001
155-160	0.001
165-170	0.001
175-180	0.001
185-190	-0.001
195-200	-0.001
205-210	-0.001
215-220	-0.001
225-230	-0.001
235-240	-0.001
245-250 (EOH)	0.001

40-45
50-55
could ave ≥ 15' -.010

JOB NUMBER:	857102 D
* DATE REPORTED:	9/11/85
* PREP LAB:	PHOENIX
* ANAL LAB:	SPARKS
* LAB RCVD:	9/04/85
* PREP DATE:	
* PREP CODE:	
* SHIPMENT DATE:	8/30/85
* TYPE:	B
* PROJ LOCATION:	9569
*	
* NO. OF SAMPLES:	25
* ORIGINATOR:	KEATING
* LOCATION:	PHOENIX 23
* TRAY NO.:	857463
*	
* INSTRUCTIONS:	AU: FA/AA *OZ/T

		ELEMENT:	AU	AU
		DIGEST CODE:		
		ANALYSIS:	FA/AA	FA/AA
* SAMPLE ID		UNITS:	PPM	OZ/T
* *		SWR-17	-------	-------
857102	1	5-10	0.02	0.001
857102	2	15-20	L0.02	L0.001
857102	3	25-30	0.02	0.001
857102	4	35-40	0.02	0.001
857102	5	45-50	0.94	0.027
857102	6	55-60	L0.02	L0.001
857102	7	65-70	L0.02	L0.001
857102	8	75-80	L0.02	L0.001
857102	9	85-90	L0.02	L0.001
857102	10	95-100	L0.02	L0.001
857102	11	105-110	0.02	0.001
857102	12	115-120	L0.02	L0.001
857102	13	125-130	0.02	0.001
857102	14	135-140	0.06	0.002
857102	15	145-150	0.02	0.001
857102	16	155-160	0.02	0.001
857102	17	165-170	0.02	0.001
857102	18	175-180	0.05	0.001
857102	19	185-190	L0.02	L0.001
857102	20	195-200	L0.02	L0.001
857102	21	205-210	L0.02	L0.001
857102	22	215-220	L0.02	L0.001
857102	23	225-230	L0.02	L0.001
857102	24	235-240	L0.02	L0.001
857102	25	245-250	0.05	0.001

Drilling Results
SUGARLOAF PEAK PROJECT
Hole: SWR-18 (reverse circulation)
Bearing: ---
Inclination: -90°

Interval	Au (oz/t)
0- 5	-0.001
10- 15	-0.001
20- 25	-0.001
30- 35	-0.001
40- 45	-0.001
50- 55	-0.001
60- 65	0.001
70- 75	-0.001
80- 85	-0.001
90- 95	-0.001
100-105	-0.001
110-115	-0.001
120-125	-0.001
130-135	-0.001
140-145	0.001
150-155	-0.001
160-165	-0.001
170-175	-0.001
180-185	-0.001
190-195	-0.001
200-205	-0.001
210-215	-0.001
220-225	-0.001
230-235	-0.001
240-245	-0.001

(EOH 250)

* JOB NUMBER: 857103 D
* DATE REPORTED: 9/11/85
* PREP LAB: PHOENIX
* ANAL LAB: SPARKS
* LAB RCVD: 9/04/85
* PREP DATE:
* PREP CODE:
* SHIPMENT DATE: 8/30/85
* TYPE: B
* PROJ LOCATION: 9569
*
* NO. OF SAMPLES: 25
* ORIGINATOR: KEATING
* LOCATION: PHOENIX 23
* TRAY NO. : 857464
*
* INSTRUCTIONS: AU: FA/AA *OZ/T
*
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*

*	ELEMENT:	AU	AU
*	DIGEST CODE:		
*	ANALYSIS:	FA/AA	FA/AA
* SAMPLE ID	UNITS:	PPM	OZ/T
* *	SWR-18	-------	-------
857103 1	10-15	L0.02	L0.001
857103 2	20-25	L0.02	L0.001
857103 3	30-35	L0.02	L0.001
857103 4	40-45	L0.02	L0.001
857103 5	50-55	L0.02	L0.001
857103 6	60-65	0.02	0.001
857103 7	70-75	L0.02	L0.001
857103 8	80-85	L0.02	L0.001
857103 9	90-95	L0.02	L0.001
857103 10	100-105	L0.02	L0.001
857103 11	110-115	L0.02	L0.001
857103 12	120-125	L0.02	L0.001
857103 13	Control k	1.84	0.054
857103 14	130-135	L0.02	L0.001
857103 15	140-145	0.02	0.001
857103 16	150-155	L0.02	L0.001
857103 17	160-165	L0.02	L0.001
857103 18	170-175	L0.02	L0.001
857103 19	180-185	L0.02	L0.001
857103 20	190-195	L0.02	L0.001
857103 21	200-205	L0.02	L0.001
857103 22	210-215	L0.02	L0.001
857103 23	220-225	L0.02	L0.001
857103 24	230-235	L0.02	L0.001
857103 25	240-245	L0.02	L0.001

DAWSON METALLURGICAL LABORATORIES, INC.

P. O. Box 7685
5217 Major Street
Murray, Utah 84107
Phone: 801-262-0922

March 27, 1984

St. Joe American Corporation
Southwest District
1806 West Grant Road - Suite 101/102
Tucson, Arizona 85745

Attn: Mr. Joe Rankin
Mr. Noel Cousins

Subject: Results of Cyanide Leach Amenability Tests on Two WW Comp 2A Samples, Our Project No. P-1040.

Gentlemen:

In accordance with the request of Mr. Tom Chapin cyanide leach amenability tests were conducted on the two WW Comp 2A samples received 3/15/84. The results summarized below are also shown on the appended test sheet:

.010 SKy .034 Joe .020 SKy .010 SKy .032 Joe

Sample

Comp A - WW Comp 2A; 25-30 - 9A; 5-10
Comp B - WW Comp 2A; 245-250 - 9A; 105-110

.035 SKy .035 Joe .033 Joe, .045 SKy

	Grind	Assay - oz/Ton			Extract	Reagent Consumed		
	%-200M	Residue	Calc Head		%	lb/Ton		
		Au	Au	Ag	Au	NaCN	Lime	
Comp A	94.2	.010	.031	None	67.5	6.7	4.6	oxide zone
Comp B	93.1	.010	.036	None	72.3	3.5	2.5	sulfide zone

The results of these amenability tests show that the gold values can be extracted by cyanide leach. Relatively fine grinds and high cyanide concentrations were used in the leach to insure maximum extraction. Therefore, cyanide consumption would be somewhat higher than could be anticipated. However, the results do indicate that relatively high cyanide consumption could be anticipated.

Our standard amenability test procedure was used. The ore was ball mill ground at 50% solids and then bottle roll leached 48 hours at 50% solids starting with 10 lb NaCN/ton solution after the pH was adjusted with hydrated lime. After leaching the weighed slurry was

T Young

GLOBO DE PLOMO ENTERPRISES

P.O. BOX 872
DOUGLAS, AZ 85607
USA

17 March 1985

Edgar G. Lockhart
AMSELCO EXPLORATION INC.
17602 North Black Canyon Hwy.
Suite 105
Phoenix, Arizona 85023

Dear Edgar:

Enclosed are descriptions of the 14 samples recently received. I am returning sample remains and slides by parcel post.

I have written the descriptions with the supplied comments and questions in mind, and where I have not responded to certain things it is most often because the answer is unclear.

The setting reminds me much of certain areas in the Carolina slate belt, i.e. alteration to quartz-diaspore-alunite etc. occurred <u>before</u> metamorphism that is evidently of regional extent. The alunite and allophane now seen in the rocks are only of supergene origin, just as is the jarosite.

I suspect the majority of rocks would correlate with 9521-3 and believe them to have been greywackes most likely. Most of the remainder were a quartz bearing porphyry that may have been hypabyssal; their "tuff-like" fabric may be due solely to the post-alteration metamorphism.

I do hope these data help sort matters out in the field!

Sincerely,

Sid Williams

Sidney A. Williams

SAW:bj
encls.

TEL: (602) 634-2267 / TLX: "GLOBLO" / SHIPPING: 1201 E AVENUE DOUGLAS

R9521-3

The original rock was a volcanic of mixed, generally rhyodacitic composition. Whether or not it was reworked is uncertain, for mesozonal metamorphism has obscured primary features.

Plagioclase clasts are the major component, but ther are also clasts of orthoclase, hornblende, B quartz, etc. Lithic fragments include andesites, vitric and granophyric dacites, and some more basic, mafic-rich volcanics. The plagioclase is just lightly dusted with sericite and orthoclase is quite fresh. Mafites are replaced by granular epidote and biotite, the latter mineral in foliated trains adjoining the pseudomorph. In the matrix, biotite is joined by wispy sericite. Quartz in the matrix tends to coalesce as granular stringers paralleling the foliation. <.001 Au, <.009 Ag tuff

R9518-7

The original rock was a porphyry of acid to intermediate composition. The quartz phenocrysts in it and the outlines of former biotite phenocrysts are perfectly preserved, but all other textural information has been obliterated by intense silicification.

The matrix consists almost exclusively of small quartz grains with simple mutual boundaries and longer dimensions oriented in parallel. Slightly finer grained quartz replaces biotite; the outlines of the former crystals are detailed by disseminated hematite and grains of accessories such as zircon. A few quartz phenocrysts show strain or even incipient disaggregation, but are otherwise in perfect condition. An occasional stringer of barite was seen in the matrix.

<.003 Au, <.03 Ag porphyry, silicified

R9529-2

The rock originally was a porphyry very similar to 9518-7. It is a trifle more chilled and entrains other volcanic xenoliths however. It has been brecciated, intensely silicified, and sheared, yet the outlines of quartz phenocrysts are still clear.

The matrix within fragments is now a mosaic of clear granular quartz. Within the matrix of the breccia it is finer grained, and tiny grains of hematite color quartz grain boundaries. Hematite and a little zircon (etc.) show biotite sites in the fragments, but the outlines have become blurred and hazy. Ocasional flecks of sericite occur on quartz grain boundaries, and small crumpled foliae were even observed. Veinlets of comby quartz cut across the fabric carrying a few plates of specular hematite.

.017 Au, intru. porphyry, silicified w/ qtz vnlts

R9531-1

The original rock was an acid or intermediate and chilled porphyry very much like 9529-2. Though it has been strongly sheared it still displays the outlines of quartz phenocrysts clearly.

The rock now consists about equally of quartz and pyrophyllite. Quartz replaces certain laminae as a mosaic of simple platy or oval grains with long axes parallel. Such laminae alternate and interfinger with strands and thick foliae of perfectly foliated pyrophyllite. A little pyrite of cubic habit was once sparingly present in siliceous laminae. It has been leached, and many of the voids filled with supergene allophane.

<.001 Au, porphyry, py.

R9519-9

The original rock was an acid or intermediate porphyry much like 9531-1 etc. The outlines of quartz phenocrysts are still clear although the remainder of the rock has been sheared and thoroughly recrystallized.

The matrix now consists of dense cherty quartz with flecks of pyrophyllite on grain boundaries. These textures occur in rhombic domains set in a matrix of anastamosing foliae of pyrophyllite. There are other rhombic lenses of coarse granular quartz that are probably pseudomorphs after K-feldspar phenocrysts. Pyrite is heavily disseminated and may be mantled by ribbon-like quartz. All of the pyrite has oxidized to jarosite.

<.003 Au, <.03 Ag porphyry, py, ribbon qtz

R9516-16

The original rock is believed to have been a reworked volcanic similar to 9521-3. Clasts of quartz and plagioclase, the latter abundant, are still visible despite shearing and moderate alteration.

Larger plagioclase clasts survive as crackled remnants with beards of sericite at either end (along foliation) and in gash fractures. The finer lithic and crystal debris in the matrix is replaced fully by fine grained quartz set in and between foliae of sericite. Strings of sericite hosting leucoxene dust represent former mafites or basic volcanic material. Pyrite was finely disseminated, particularly in the more siliceous laminae, but has since altered to very fine grained jarosite.

<.003 Au, <.03 Ag tuff 1% py

R9526-20

The original rock was reworked volcanic material much like 9521-3. It consists chiefly of plagioclase clasts and various intermediate to basic volcanic fragments. Quartz clasts, mafites, etc. occur more sparingly. The rock has been sheared and metamorphosed like 9516-16.

Plagioclase clasts are just lightly dusted with sericite,

.006 Au, tuff

R9526-20 con't.

but the finer grained plagioclase and lithic debris in the matrix is fully altered to sericite which is foliated around resistant clasts. Sericite dusted with leucoxene has replaced mafites and basic volcanic trash. Minor pyrite (now jarosite) occurs in the matrix together with a little tourmaline.

Sericite and plagioclase are mantled and corroded by supergene allophane, giving the rock a chalky appearance.

.006 Au, tuff, minor py

R9526-14

The rock originaly was a reworked volcanic much like 9521-3 etc. Outlines of plagioclase clasts are still clear but the finer matrix crystal-lithic debris has been obliterated during shearing and metamorphism.

Plagioclase clasts are in part corroded and replaced by orthoclase, the remainder just lightly dusted with sericite. The rock matrix is a web of fine grained sericite and a little quartz showing foliation around the clasts. Pyrite is disseminated throughout the rock.

The pyrite is oxidized in place to jarosite. Supergene allophane coats and corrodes sericite and plagioclase, giving the rock a chalky appearance. Thick veins of allophane also cut the rock, carrying small colloform patches of alunite. More alunite occurs as a replacement of relic plagioclase in the rock.

<.001 Au, tuff, py

R9509-19

The original rock is believed to have been a dacite or tonalite porphyry, a rock unlike all others in the suite. It carries large rectangular plagioclase phenocrysts, and clusters of them, in a chilled quartz-plagioclase matrix. Biotite occurred sparingly as phenocrysts. The rock has been sheared and epizonally altered.

Plagioclase phenocrysts are just lightly dusted with sericite, and matrix plagioclase is quite fresh but has been considerably replaced by lacy quartz crystalloblasts that have formed and coalesce over wide areas. Slip planes coursing along grain boundaries are filmed with sericite and may lead into lenses of sericite derived from biotite. Pyrite is disseminated and occurs in veins of sericite and granular quartz. In these structures it is apt to alter either to jarosite or to hydronium alunite.

.013 Au, .031 Ag

porphyry intrusive, quartz vns, py

R9514-11

The original rock is believed to have been a reworked volcanic similar to 9521-3 but with more chilled volcanic fragments and fewer loose clasts of plagioclase. Textures have been blurred by shearing and epizonal alteration.

tuff

R9514-11 con't.

Fine grained quartz and plagioclase comprising matrix debris and many volcanic fragments remain relatively unchanged, although quartz does tend to coarsen and migrate into lenses or even into synmetamorphic veins of granular material. Larger plagioclase clasts are just lightly dusted with sericite. Sericite is foliated on slip planes and within lenses thought to be former mafites. Pyrite is disseminated ande is also concentrated in veins and slip planes where it is also most prone to oxidation (jarosite). Grain boundaries throughout the rock are corroded by supergene allophane and a little hydronium alunite.

.025 Au, .07 Ag tuff, py, veins (qtz?)

R6101-1

The nature of the protolith is quite uncertain but it may have been a more thoroughly reworked volcanic (i.e. with plagioclase clasts but richer in quartz). Textures have been virtually obliterated by shearing and metamorphism.

The rock is largely a paste of disoriented sericite tablets foliated to local conditions such as grain boundaries or microfractures. Quartz grains are randomly dispersed in the sericite; some clusters with sericite appear to represent former feldspar grains. Stringers and pods of green tourmaline prisms are also set within the sericite base. The rock is cut by veins of quartz of jigsaw-puzzle texture hosting coarse pyrite (now goethite).

<.005 Au, <.10 Ag tuff, qtz vns, py

R9530-15

The original rock appears to have been a reworked volcanic most closely similar to 9514-11, for it consisted largely of chilled volcanic fragments with fewer loose clasts of plagioclase, quartz, biotite, and orthoclase. Textures have become blurred due to shearing and epizonal metamorphism.

Sericite corrodes plagioclase clasts and has replaced much of the finer matrix litter together with a little quartz and relict sodic plagioclase. It is only crudely foliated, however. Epidote clouds some plagioclase clasts and occurs as irregular strings of earthy material that course along grain boundaries or slip planes. Epidote clots also occur along sericite cleavages in biotite pseudomorphs.

<.001 Au, tuff,

R9528-24

The original rock was a porphyry of acid to intermediate composition resembling 9519-9 most closely. The outlines of quartz phenocrysts are still clear whilst those of feldspars and mafites have become distorted due to shearing during metamorphism.

The rock matrix is a fine granular to almost cherty quartz mosaic hosting wisps and films of pyrophyllite. Pyrophyllite

porphyry

R9528-24 con't.

also has replaced feldspar and mafite phenocrysts. The clusters of pyrophyllite have been drawn into lenses or even foliae that anastamose through the fabric. Leucoxene and hematite (once magnetite) occur in pyrophyllite derived from mafites. A little cloudy tourmaline is also sometimes embedded in the pyrophyllite.

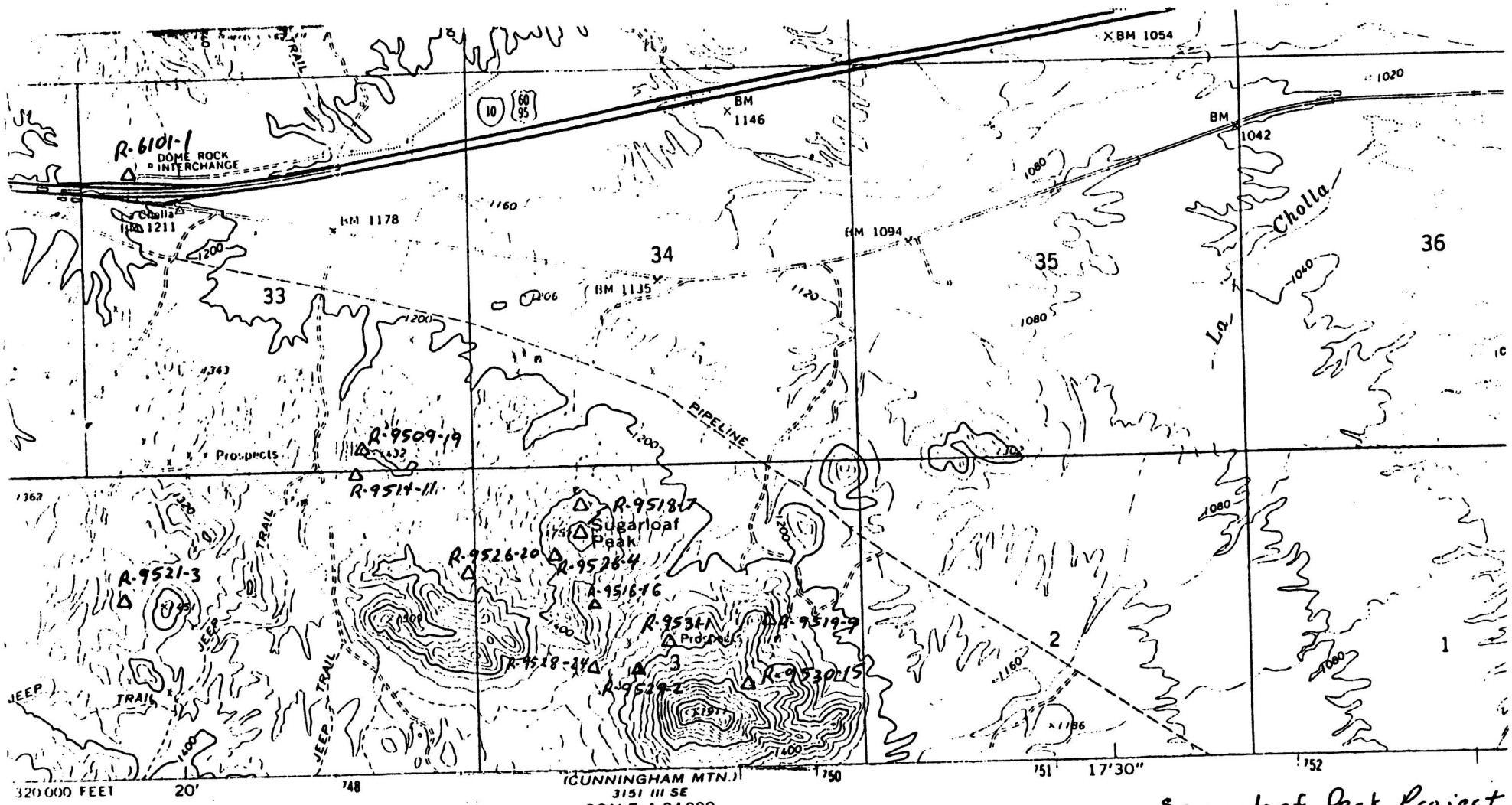
.001Au,

R9526-4

The original rock was a reworked volcanic similar to 9521-3. It is rich in large plagioclase clasts, or clusters of them. There are occasional clasts of quartz, biotite, and of chilled dacitic and andesitic fragments set in a fine matrix of crystal and lithic debris. Mild epizonal metamorphism and shearing have affected the fabric.

Plagioclase clasts are just dusted with sericite, but finer matrix feldspar debris is replaced by sericite and a little quartz which foliate around the resistant clasts. Quartz tends to coalesce in granular pods or even migrate as vein-forms through the fabric. Pyrite is disseminated but is concentrated in veins. It has oxidized to jarosite, and supergene allophane pervades grain boundaries in the rock as a result.

.001 Au, tuff, py, qtz vns.



Sugarloaf Peak Project
Sample Location Map
Alteration Suite

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Middle Camp Mtn. Quad, Ariz

HL

HEINEN - LINDSTROM CONSULTANTS

ELB

ORE TESTING • RESEARCH • CONSULTING

A DIVISION OF BATEMAN PROCESS SERVICES, INC.

April 9, 1984

Mr. Norman F. Lewis
Felmont Oil Corporation
8120 N. Sheridan, Bldg. C, Suite 100
Arvada, CO 80003

Dear Norman:

This report concerns the results from the preliminary metallurgical evaluation of sample number 26892. The metallurgical testwork was conducted on the sample as submitted. The feed material was approximately 80 percent minus 1/4 inch.

The sample was blended and split to obtain a head sample. The head sample was assayed by conventional fire assay fusion procedures to determine the precious metal content. The fire assay results showed that the sample contained 0.018 ounce Au and less than 0.1 ounce Ag per ton. - according to Jacobs, Skyline should have been ~ .022 Au - sulfide zone

An agitated cyanidation experiment (bottle roll test) was conducted on the as submitted feed to determine precious metal recovery, recovery rate and reagent requirements. A 1,000-gram charge of ore was pulped with 1,500 ml H_2O. Lime was added to adjust the pH of the pulp to 10.7. Sodium cyanide equivalent to 2.0 pounds NaCN per ton of solution was added to the alkaline pulp. Leaching was conducted in an open bottle by rolling on the laboratory rolls for 48 hours. After 2, 6, and 24 hours, agitation was suspended briefly to allow the pulp to settle so a sample of the pregnant solution could be removed for analysis. The volume of solution was measured, the pH and cyanide concentration were determined, and the solution was analyzed for gold and silver. An equal volume of make-up water was added to the pulp. Sodium cyanide was added to restore the concentration to the original value (2.0 pounds NaCN/ton solution). Agitation was then resumed.

Upon completion of 48 hours of leaching, the pulp was filtered to separate the liquids and solids. The leached residue was thoroughly washed, dried and submitted for assay to determine residual precious metal content. The final pregnant solution volume was measured and a sample was taken for gold and silver analysis. The leaching results are shown in table 1. The leach rate profile is shown graphically in figure 1.

[illegible] .018 + .017 .021 .021

8A - 110-130' ✓ .023 SL .025
8A 155-185' ✓ .021 SL .021
should have

ST JOE TEST INTERVAL CAL [illegible]

.034 .0[illegible] 2A - 25-30' COMPOSITE .031
.0[illegible] .0[illegible] 5A - 5-10'

.0[illegible] .0[illegible] 9A - 105-110' COMPOSITE .036
.03[illegible] .035 2A - 245-250'

1550 Linda Way • Sparks, Nevada 89431 • (702) 356-7572

TABLE 1. - Precious Metal Recovery by Cyanidation

Metallurgical results	Sample 26892 (≈80 pct minus 1/4 inch) Au	Ag
Extraction, pct of total:		
in 2 hours	41.2	58.7
in 6 hours	52.9	69.1
in 24 hours	64.7	75.3
in 48 hours	70.6	82.4
Extracted, oz/ton ore	0.012	0.44
Tail assay, oz/ton ore	0.005	0.10
Calculated head, oz/ton ore	0.017	0.54
Head assay, oz/ton ore	0.018	-0.10*
Cyanide consumed, lb/ton ore	1.0	
Lime added, lb/ton ore	1.2	
pH of final pregnant solution	10.1	

*Symbol "-" means "less than".

The data show that about 70 and 80 percent of the total gold and silver, respectively, are recovered in 48 hours of agitated cyanide leaching the nominal 1/4 inch feed material. The gold and silver recovery was substantially complete in 24 hours of leaching. Leaching for an additional 24 hours recovered an additional 0.001 ounce gold and 0.038 ounce silver per ton. The cyanide consumption was moderate at 1.0 pound NaCN per ton of ore. The lime required to maintain protective alkalinity throughout the leaching period was low at 1.2 pounds CaO per ton of ore.

CONCLUSIONS

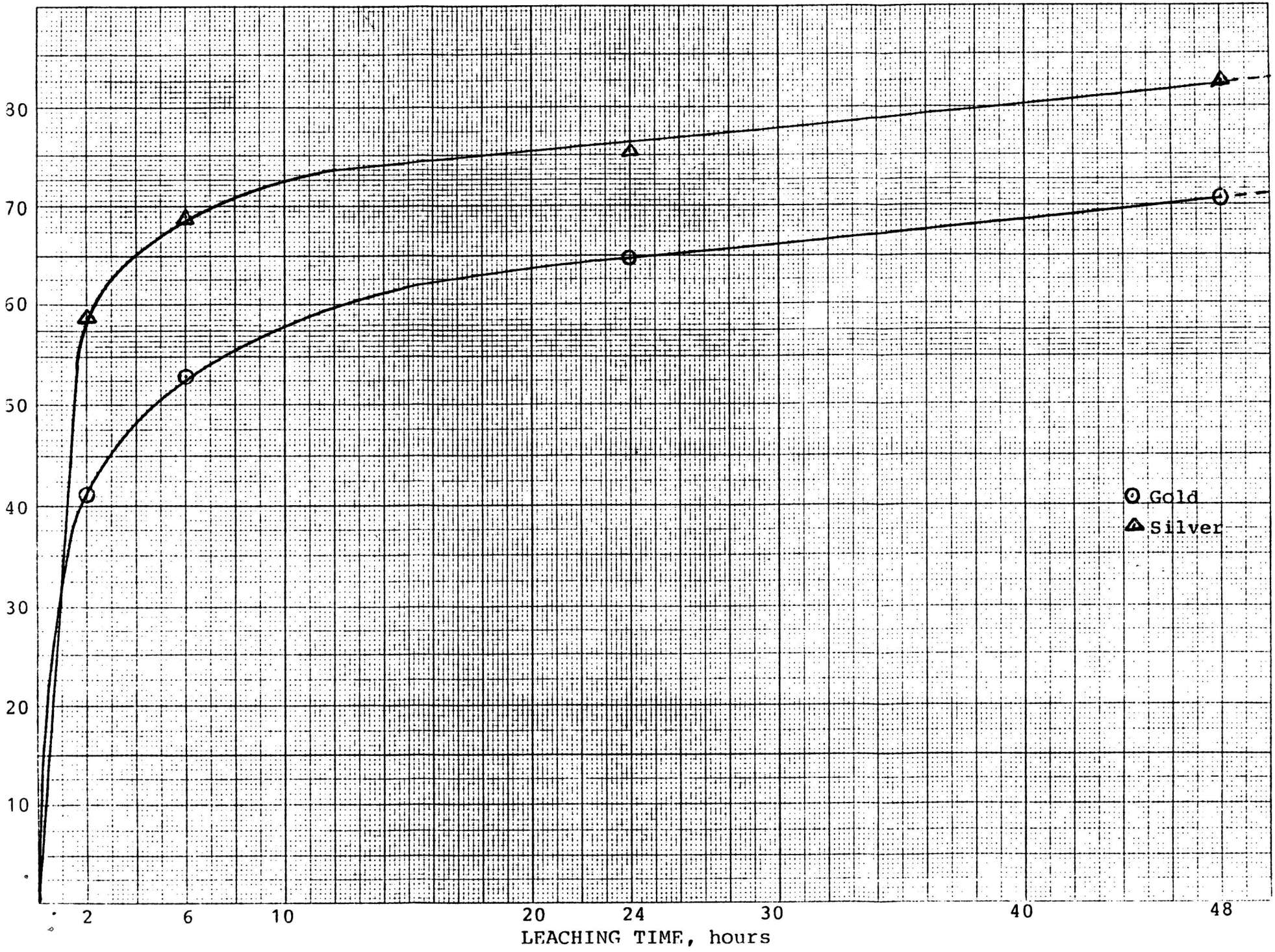
- The ore appears readily leachable at a nominal 1/4 inch feed size.
- The ore can only be economically processed by heap leaching techniques because of the low-grade nature of the feed.
- Reagent requirements are moderate to low.
- The ore may be leachable at coarser feed sizes using heap leaching technology.

We recommend that column percolation leaching tests be conducted on a representative sample of the ore to determine optimum feed size, precious metals recovery, and leaching rate.

NO. 340-M DIETZGEN GRAPH PAPER
MILLIMETER

DIETZGEN CORPORATION
MADE IN U.S.A.

FIGURE 1. - Leach Rate Profile for Sample 26892



We appreciated the opportunity to be of service to you on this project. We look forward to a continuing association with you on future projects.

Sincerely,

Gene

Gene E. McClelland
Manager

DAWSON
METALLURGICAL
LABORATORIES, INC.

P. O. Box 7685
5217 Major Street
Murray, Utah 84107
Phone: 801-262-0922

March 27, 1984

St. Joe American Corporation
Southwest District
1806 West Grant Road - Suite 101/102
Tucson, Arizona 85745

Attn: Mr. Joe Rankin
Mr. Noel Cousins

Subject: Results of Cyanide Leach Amenability Tests on Two WW Comp 2A Samples, Our Project No. P-1040.

Gentlemen:

In accordance with the request of Mr. Tom Chapin cyanide leach amenability tests were conducted on the two WW Comp 2A samples received 3/15/84. The results summarized below are also shown on the appended test sheet:

Sample
Comp A - WW Comp 2A; 25-30 - 9A; 5-10
Comp B - WW Comp 2A;245-250 - 9A;105-110

	Grind	Assay - oz/Ton			Extract	Reagent Consumed	
	%-200M	Residue	Calc Head		%	lb/Ton	
		Au	Au	Ag	Au	NaCN	Lime
Comp A	94.2	.010	.031	None	67.5	6.7	4.6
Comp B	93.1	.010	.036	None	72.3	3.5	2.5

The results of these amenability tests show that the gold values can be extracted by cyanide leach. Relatively fine grinds and high cyanide concentrations were used in the leach to insure maximum extraction. Therefore, cyanide consumption would be somewhat higher than could be anticipated. However, the results do indicate that relatively high cyanide consumption could be anticipated.

Our standard amenability test procedure was used. The ore was ball mill ground at 50% solids and then bottle roll leached 48 hours at 50% solids starting with 10 lb NaCN/ton solution after the pH was adjusted with hydrated lime. After leaching the weighed slurry was

filtered to remove the leach solution for assay and the residue was given three displacement washes prior to drying and preparing for assay. A screen analysis was made on the leach residue.

We appreciate the opportunity to conduct these tests for you and hope they aid you in your evaluation. If there are any questions, please contact us.

Very truly yours,
DAWSON METALLURGICAL LABORATORIES, INC.

Harmel A. Dawson

Harmel A. Dawson,
President

HAD-cac

DAWSON METALLURGICAL LABORATORIES, INC.

P. O. BOX 7685
5217 Major Street
Murray, Utah 84107-0685
Phone: 801-262-0922

PROJECT NO. P-1040
DATE 3/19/84
BY MT

TEST NO. 1 NAME St. Joe American
48 hour NaCN Leach with 10 lbs/ton NaCN

Comp A-WW Comp - 2A; 25-30
9A; 5-10
Comp B-WW Comp - 2A; 245-250
~~9A; 105-110~~

PRODUCT	Weight	PERCENT WEIGHT	ASSAY					UNITS				DISTRIBUTION			
				Au	Ag				Au	XXX		Au	XXX		
Leach Solution	1136			.018	N				.2045			67.5			
Leach Residue	984.4			.010	N				.0984			32.5			
Head (calc)	984.4			.031	N				.3029			100.0			
Head (assay)															
Leach Solution	1130			.023	N				.2599			72.3			
Leach Residue	997.2			.010	N				.0997			27.7			
Head (calc)	997.2			.036	N				.3596			100.0			
Head (assay)															
					N = None										

	Comp #A						Comp #B						GRINDING PRODUCT	
OPERATION	B.M.			Leach	48 hour	B.M.			Leach	48 hour			A	B
TIME	30'			10:10		30'			10:20					
REAGENTS-LBS PER TON				Start	Off				Start	Off				
Ore	1000					1000						MESH	%	
Water	1000					1000						+10		
Lime - gm		2.3					1.3					+14		
NaCN - gm				5.0					5.0			+20		
NaCN Titration					3.0					5.8		+28		
CaO Titration					0.1					0.1		+35		
NaCN Consumed - lb/Ton					6.7					3.5		+48	0.1	0.
Lime Consumed - lb/Ton					4.6					2.5		+65	0.1	0
												+100	0.[illegible]	[illegible]
												+150	1.[illegible]	[illegible]
MACHINE												+200	4.3	4.
R.P.M.												+325	11.4	11
pH	7.5		11.2		11.0	8.0		11.2		11.1		-325	82.8	81
% SOLIDS													100.0	100
TEMPERATURE														

REMARKS:

7-27-85

Norm:

This stuff is just a tidbit of interesting material that I thought you'd appreciate. I've looked for visible gold for over a year at Sugarloaf without luck, but leave it to Sid Willions. I've never heard of most of the bismuth minerals ~~he's~~ he's identified (I called them Cu-Pb oxides in my initial descriptions). The samples were collected from a small silicified pod ~~described~~ from where sample R-9529-2 was collected (see petrographic report).

Nothing yet on the drill results. I expect them in about three weeks.

Regards.

T. Young

P.S. ~~R. Naylor~~ I talked to R. Naylor about the submittals that you send, and he claims he will respond. We'll see!

Orig: EGL
cc: BDR
SJK
RGN

GLOBO DE PLOMO ENTERPRISES

P.O. BOX 872
DOUGLAS, AZ 85607
USA

6 July 1985

Edgar G. Lockhart
Amselco Exploration Inc.
17602 North Black Canyon Hwy.
Suite 105
Phoenix, ARIZONA 85023

Dear Edgar:

Enclosed are analytical results that may interest you. These represent two samples we analysed after mineral collecting at Sugarloaf a few weeks ago. Sample M7 was a portion of rock veined with specular hematite, and well mineralized (including visible gold). Sample M8 was a chunk of silica rock including considerable secondary bismuth minerals. We were able to verify the presence of duhamelite, pucherite, bismutite, and daubreeite in these samples. I enclose a reprint for duhamelite; it may not yet have gotten in your references.

Best regards,

Sid Williams

Sidney A. Williams

SAW:s

TEL: (602) 364-9637 / TLX: "GLOPLO" / SHIPPING: 1201 F AVENUE, DOUGLAS

GLOBO DE PLOMO

XES GEOCHEMICAL ANALYSIS

pulp	sample #		Fe	Cu	Pb	Bi	Sn	Sb	Te	V					
M7	SUGARLOAF VN w/ Fe_2O_3		3.29%	373	.16%	.23%	294	9	30						
M8	SUGARLOAF SIL. w/ DAUB.		3.00%	69	1.07%	.74%		12	61	.18%					

values in ppm unless % is specified

MINERALOGICAL MAGAZINE, JUNE 1981, VOL. 44, PP. 151-2

Duhamelite, $Cu_4Pb_2Bi(VO_4)_4(OH)_3 . 8H_2O$, a new Arizona mineral

S. A. WILLIAMS

Phelps Dodge Corp., Douglas, AZ 85607, USA

ABSTRACT. Found by J. E. DuHamel, at a prospect near Payson, Arizona, where it occurs with chrysocolla, malachite, rare fornacite, wulfenite, and bismutite. Colour chartreuse green (RHS 1A), H = 3, D = 5.80. Pleochroism in yellow weak; $\alpha = 2.08$, $\beta = 2.11$. Crystals are minute orthorhombic fibres $a = 7.49$ Å, $b = 9.66$, $c = 5.87$, Z = 1, D_{calc} 5.99 g/cm^3. Strongest lines: 5.014(4), 4.828(3), 3.493(5), 3.159(7), 2.950(10), 2.642(9), 1.870(3), 1.755(3). Wet analysis (avg. of 3) gave CuO 20.4%, PbO 28.4, Bi_2O_3 15.9, V_2O_5 23.1, H_2O 11.8.

Occurrence. The occurrence of duhamelite is described by J. E. DuHamel:

Specimens of the new mineral were found in quartz veins cutting Precambrian greenstones, 5 kilometers southwest of Payson, Arizona. The locality is on the banks of Lousy Gulch.

The greenstone host rocks are exposed over an area of approximately 130 square kilometers south and west of Payson and are part of the Yavapai Series of schists which form the older Precambrian basement of Arizona. The greenstones contain many small gold-bearing quartz veins of probable metamorphic origin which were prospected intensively in the 1880's. The mines developed were short-lived and ceased production by the 1890's.

Andesitic and basaltic flows, fragmental units, and tuffs comprise the bulk of the extrusive rocks, but minor flows of rhyolite and quartz latite as well as volcanic-derived sediments are present. The extrusive rocks and sediments have been intruded, prior to regional metamorphism, by basic rocks of diabasic, dioritic, and tonalitic composition. Most of the mineralized quartz veins in the district occur in or near the intrusives.

The quartz veins have been metamorphosed together with the host rocks and typically contain actinolite or chlorite as major constituents along with the quartz. Metallic mineralization is rare in the district, and is most often observed as isolated areas of patchy chrysocolla and hematite in the veins and adjacent wall-rock. Traces of chalcopyrite, pyrite, and gold occur in some of the veins.

The initial, and best, specimens were found in the dump material of a two-meter deep pit dug at the contact of greenstone with coarse-grained metadiorite. Radiated crystals occur in vugs of dirty, gray vein material which also carries inclusions of chlorite, plagioclase, chrysocolla, hematite, and akaganéite. Additional specimens, principally compact fibrous and reniform material was found in place in veins cutting metadiorite at a small pit 50 meters east of the first occurrence.

In addition to primary pyrite and chalcopyrite, the veins may have contained traces of bismuthinite, for bismutite was noted in one sample. The source of lead in duhamelite is more uncertain, for no evidence of lead sulphide was seen. Other lead minerals also occur in traces, namely fornacite and wulfenite, but the total lead content of vein and wallrock matter is invariably less than 100 ppm. Probably it is important that lead be present only in traces, otherwise mottramite would be expected.

Most of the duhamelite found occurs as bundles of fibres resting on corroded chrysocolla or directly upon the gangue. It was not noted in close association with partly oxidized chalcopyrite or with malachite.

Physical properties. Crystals are small, no longer than 0.4 mm or 0.02 mm in width. They may be free-standing or compacted into barrel-shaped bundles. The colour of isolated fibres is chartreuse green (RHS 1A) and in bundles is darker olive green (RHS 146A). The streak is a pale yellow-green. Crystals are brittle, and the estimated Mohs hardness is 3. A small sample (1.87 mg) weighed three times on the Berman balance yielded a specific gravity of 5.80 ± 0.05.

X-ray study. Despite the small grain size, weak diffraction data were obtained from rotation and Weissenberg exposures using Cu-Kα radiation. Crystals are orthorhombic, $a = 7.49$ Å, $b = 9.66$, $c = 5.87$ (the values refined from powder data). The X-ray powder data are presented in Table I.

Optics. In thin section as well as hand specimen, duhamelite closely resembles creaseyite, and distinguishing the two would be difficult were not the indices of creaseyite considerably lower. The prism axis was taken as [001] and is coincident with γ; the orientation of the other two directions is unknown due to minute grain size. Pleochroism is in yellows but is weak, with $\alpha = \beta > \gamma$. Indices of refraction determined for NaD are α(np) = 2.08, $\beta = 2.11$.

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TABLE I. *X-ray powder data for duhamelite Cr-K radiation, 114 mm camera*

I_{est}	d_{meas}	d_{calc}	*hkl*	I_{est}	d_{meas}
½	7.490	7.493	100	1	2.508
1	5.909	5.920	110	1	2.416
4	5.014	5.018	011	2B	2.301
3	4.828	4.828	020	2	2.246
2	4.176	4.170	111	2	2.136
1	4.059	4.058	120	1	2.082
1	3.744	3.746	200	3	1.870
5	3.493	3.493	210	½	1.781
7	3.159	3.159	201	3	1.755
2	2.982	3.002	211	2	1.735
10	2.950	2.957	130	½	1.669
—	—	2.960	220	1	1.636
—	—	2.937	002	2	1.579
½	2.818	2.823	031		
—	—	2.810	012		
9	2.642	2.641	131		
		2.643	221		
		2.631	112		

Chemistry. Preliminary spectrographic analysis of a tiny sample showed only Bi, Pb, V, and Cu as major constituents and no trace elements worthy of analysis. Results of wet chemical analysis on three samples of 1318, 322, and 869 μg are given in Table II. Water was determined (and seen) by Penfield method on 127 μg.

Duhamelite is soluble in cold, dilute HCl or HNO_3, not in water. It fuses readily to a syrupy black slag.

TABLE II. *Chemical analysis of duhamelite*

	1	2	3
CuO	20.4%	0.256	20.8%
PbO	28.4	0.127	29.1
Bi_2O_3	15.9	0.034	15.2
V_2O_5	23.1	0.127	23.7
H_2O	11.8	0.655	11.2
Total	99.6		100.0

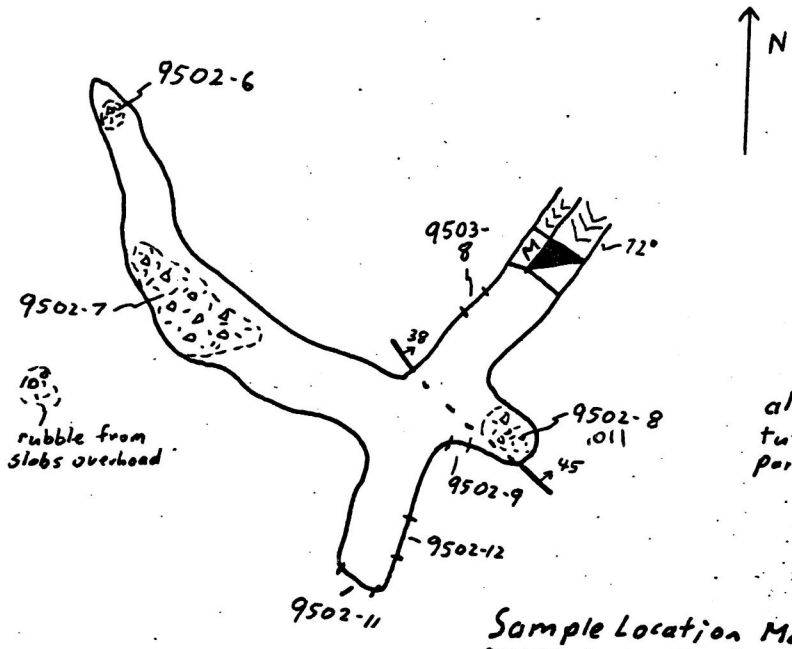
1. Average of 3 determinations
2. Ratios
3. Theory for $Cu_4Pb_2Bi(VO_4)_4(OH)_3 . 8H_2O$

Additional comments. Duhamelite does not appear to be similar to other known vanadates, and confusion with older or ill-defined species seems unlikely.

I am grateful to J. E. DuHamel (geologist for Phelps Dodge Corp.) for his enthusiastic support of this project. The mineral is named in his honour as the discoverer. BaSaw Khin brought the mineral to my attention. Marjorie Duggan performed her usual impeccable chemical work on such minute samples.

Although a number of specimens were found (about a dozen), they represent only a few tens of milligrams of mineral. Type specimens will be provided for the British Museum (NH) and the Geological Museum, University of Arizona.

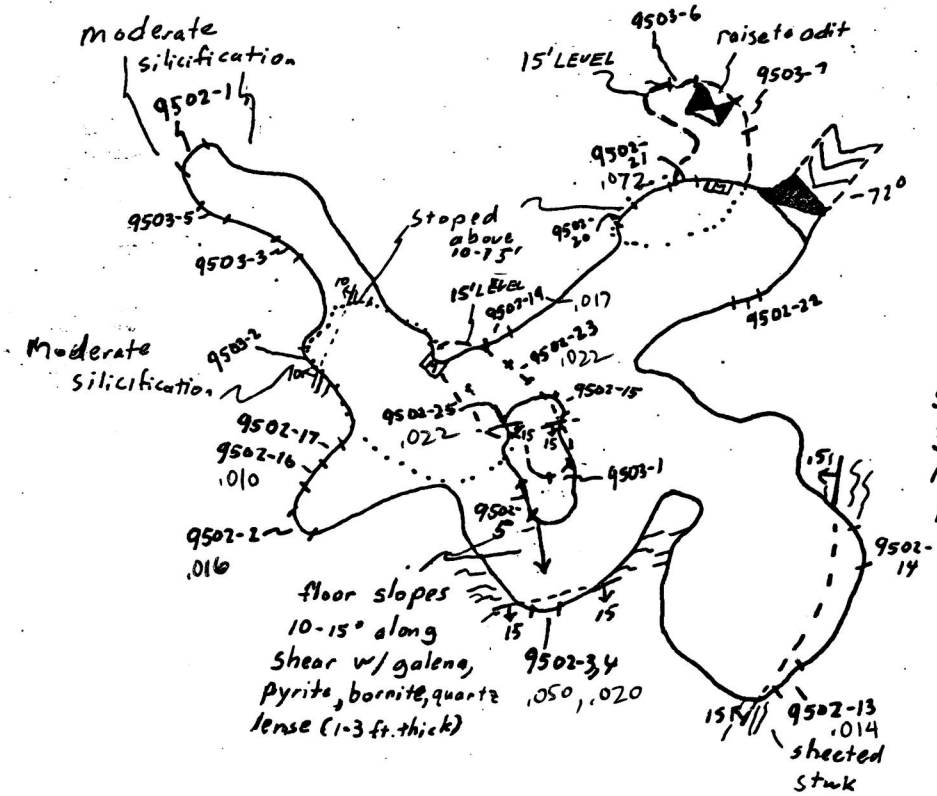
[*Manuscript received 2 July 1980*]



all walls rhyolite tuff w/ 3-7% diss pyrite, partially oxidized

Sample Location Map
75' LEVEL-LEADVILLE
MINE- Sugarloaf Peak
Project, La Paz Co., Arizona

0 20 feet



SAMPLE LOCATION MAP
30' LEVEL-LEADVILLE
MINE, Sugarloaf Peak
Project, La Paz Co., Arizona

all walls rhyolite tuff generally silicified w 5-15% diss. & veinlet pyrite

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9502

PROJECT NAME SWPM-Sugarloaf P. OFFICE Yuma

PROPERTY Sugarloaf Peak 09569 GEOLOGIST T. Young

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In OPT. Au	Ag	Sb	As	Hg	Te	WT#	TI
5X5 Panel - face - grey, highly sil. rhy tuff 10% fresh py	J.S. Sands claim - Subsurface	1	<.001	<.009	2	<10	.07	.020	26	1
5X5 Panel - face - oxidized, sericitic alt tuff - 5-10% lm/py	workings - 30 LEVEL	2	.016	<.009	<2		.13	.040	26	3
X1 grab - silicified zone (low angle shear) w/ 5% sphal/galena, bornite (?)		3	.050	.239	85		.06	.030	35	7
X4 Panel - Silic. oxidized hanging wall of #3 lm/py 5%		4	.020	.155	42		.03	.020	28	11
X5 Panel - Pilar - Inter silicified tuff, oxidized lm/py 5%		5	.003	<.009	4		.03	.045	32	2
mp. - rubble 5% diss py in chalky rhy tuff, fresh py.	75 LEVEL	6	.003	.016	2		.04	.020	18	2
mp - rubble - 10% diss fresh py in chalky, rhy. tuff - partial oxid.		7	.004	.024	<2		.05	.035	23	2
mp - rubble - 10% diss py. part. oxidized along shears rhy tuff		8	.011	.015	2		.10	.020	22	2
X2 Panel - f wall of above - silicified shear zone - 5-10% py part. oxid. w/ chalcocite (?)		9	.006	.022	<2		.09	.020	24	1
ontrol		~~10~~	.100	.012					~~26~~	
X3 Panel - face - wkly silicified rhy tuff w/ 5% fresh diss. py		11	.002	<.009	2		.04	.045	26	3
X3 Panel - east - rib same as above		12	.005	.025	2		.05	.020	28	3
X3 Panel - sheared (low angle) tuff - strongly oxid. 10% lm/py - low angle shears	30 Level	13	.014	.039	30		.03	.040	30	6
X4 Panel - s. as above but lower (strat) in shear zone - less shearing		14	.005	.021	6		.01	.010	26	4
X3 Panel - pillar; silicified low angle shear zone - wk. gl - sp - bn (?)		15	.005	.028	18	<10	.06	.010	32	7
X5 Panel - rib - bleached wkly silicified tuff - oxidized py 5%		16	.010	.055	2	20	.10	.025	33	4
X5 Panel - same		17	.005	.027	4	10	.07	.040	28	5
ontrol -		~~18~~	<.001	<.009						
X5 Panel, mod. silicified tuff - 5% diss lm/py (oxidized)		19	.017	.036	28	<10	.03	.020	25	7
X5 Panel - same - somewhat more fracs., py follows foliation		20	.008	.028	14		.03	.040	28	5
X5 Panel - same - slightly more fracs than above		21	.072	.120	55		.09	.030	27	5
X4 Panel - bleached tuff - wk stained. lm fracs, wkly sil.		22	.003	.091	24		.02	.010	25	8
X4 Panel - sheared (low angle) tuff - oxidized lm/py		23	.022	.200	32		.04	.010	26	6
ontrol		~~24~~	.034	<.009						
rab - silicified tuff w/ gl, sp - bornite (?) - low angle shear		25	.022	.90	34		.05	.010	16	24

STATE Az. COUNTY La Paz

SPECIAL INSTRUCTIONS

LAB NAME ASSAY METHOD

SHIPPED FROM FIELD 8-27-84 VIA Consolidated RECEIVED PREPPED

SHIPPED TO LAB VIA REPORTED

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9503

PROJECT NAME SW PM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In OPT Au	Ag	As	Sb	Te	Tl	cut.	Hg
-4 Panel - Sheared (low a-gde) tuff, strongly oxidized	J.J. Sands claim - subsurface	1	.011	.146	<10	18	.100	1	25	.09
-4 Panel - bleached tuff - mod. silicified 5% oxid. Inj/py	3 0 LEVEL	2	.006	.027	<10	10	.055	1	32	.03
x5 Panel - some w/ narrow qtz vein		3	.011	.056	<10	26	.010	<1	28	.05
tral		4	.107	.012						
x5 Panel - wk to mod. fractured, highly sil. tuff, fresh py (non)		5	.013	.042	10	18	.120	<1	28	.10
x5 Panel - mod. silicified tuff - mod frac. Inj/py		6	.041	.467	<10	155	.060	<1	24	.09
-5 Panel - Same		7	.166	1.21	<10	80	.080	2	24	.07
bble composite (?) - wkly frac., chalky tuff with 5% fine disp py	75 LEVEL	8	.005	.025	<10	4	.010	<1		.03
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
		20								
		21								
		22								
		23								
		24								
		25								

TATE AZ COUNTY La Paz

PECIAL INSTRUCTIONS

LAB NAME ASSAY METHOD

SHIPPED FROM FIELD 8-27-84 VIA Consolidated RECEIVED PREPPED

SHIPPED TO LAB VIA REPORTED

ESTABLISHED 1880

1435 SOUTH 10TH AVENUE

JACOBS ASSAY OFFICE

REGISTERED ASSAYERS

PHONE 622-0813 1435 SOUTH 10TH AVE.

TUCSON, ARIZONA 85713

June 15,1983

Mr. Norm Dausinger, Westworld
Re: Pulp Comparison-Westworld Project

Dear Mr. N. Dausinger:

In reference to your letter dated June 13,1983,after reviewing the data you compiled on the Assay Results, I wish I could come up with an easy answer. I am also surprised at the constant less than 0.01 on the Silver.

We have reviewed our calculations and weights obtained and have found no discrepencies. We have reviewed our Inquarting procedures and checked our blanks. We have yet to find any large discrepencies in the Silver part of the Assay.

As far as the Gold Assay Results are concerned, I personally weighted all the Gold beads and glassed (10 power Lens) before weighting, to make sure of the gold.

ESTABLISHED 1880

1435 SOUTH 10TH AVENUE

JACOBS ASSAY OFFICE

REGISTERED ASSAYERS

PHONE 622-0813 1435 SOUTH 10TH AVE.

TUCSON, ARIZONA 85713

 June 15, 1983

The only thing I would perhaps suggest, would be to let me cut a sample of WW-10 115-120, 165-170, 180-185 and 190-195, make a composite sample of 1000 or 2000 grams, and run a bulk flotation test, then perhaps, we could get a calculated Head Sample on the Gold and Silver.

This, of course would be done with no charge to Westworld. Hopefully we will get to the bottom of this problem. If you have any further suggestions, please feel free to contact me.

Thanks again,

REGISTERED ASSAYER 1130 MICHAEL G. JACOBS

Michael G. Jacobs

LYALL J. LICHTY

Project No. DAUSINGER	Sample I.D. WW-10	Feed Wt. 1000 gms	Date
FLOTATION TEST LOG SHEET	Test No. MJ-1	Feed Size -10 MESH	JULY 22, 1983

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Additions lbs/TON						
	Time (Min.)	Solids (%)	pH		SOD. SILIC.	AF-25	P.O.	$CuSO_4$	K Amyl X		
GRIND	40	50			3.0	.02	.01				
CONDITION	5	30						1.0			
FLOAT	12	30				.04			.20		

Remarks:

METALLURGICAL RESULTS

Product	% WT.	Assays OZ/T. Au	Ag		Contents Au	Ag		Distribution (%) Au	Ag	
CONC.	15.7	.050	0.90		.785	14.13		90.3	54.5	
TAILS	84.3	.001	.14		.084	11.80		9.7	45.5	
HEADS (CALC.)	100.0	.009	.259		.869	25.93		100.0	100.0	

Remarks:

fire assay of composite head .010 oz Au/ton
.238 oz Ag/ton

Screen Analysis

Mesh	Wt. (%)	Cum. %

REGISTERED ENGINEER CERTIFICATE NO. 11650 MICHAEL G. JACOBS STATE OF ARIZONA U.S.A.

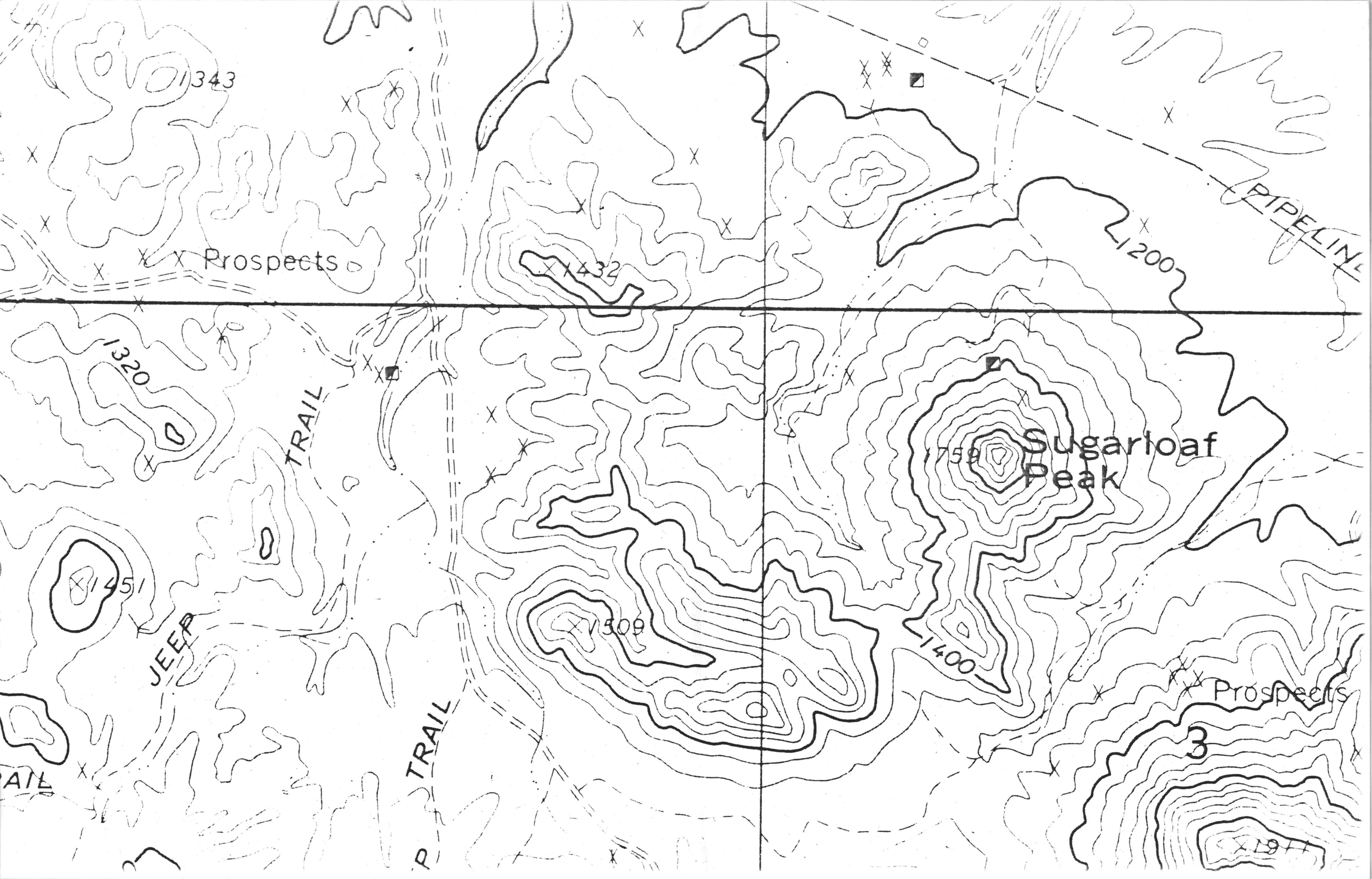
msrd-03

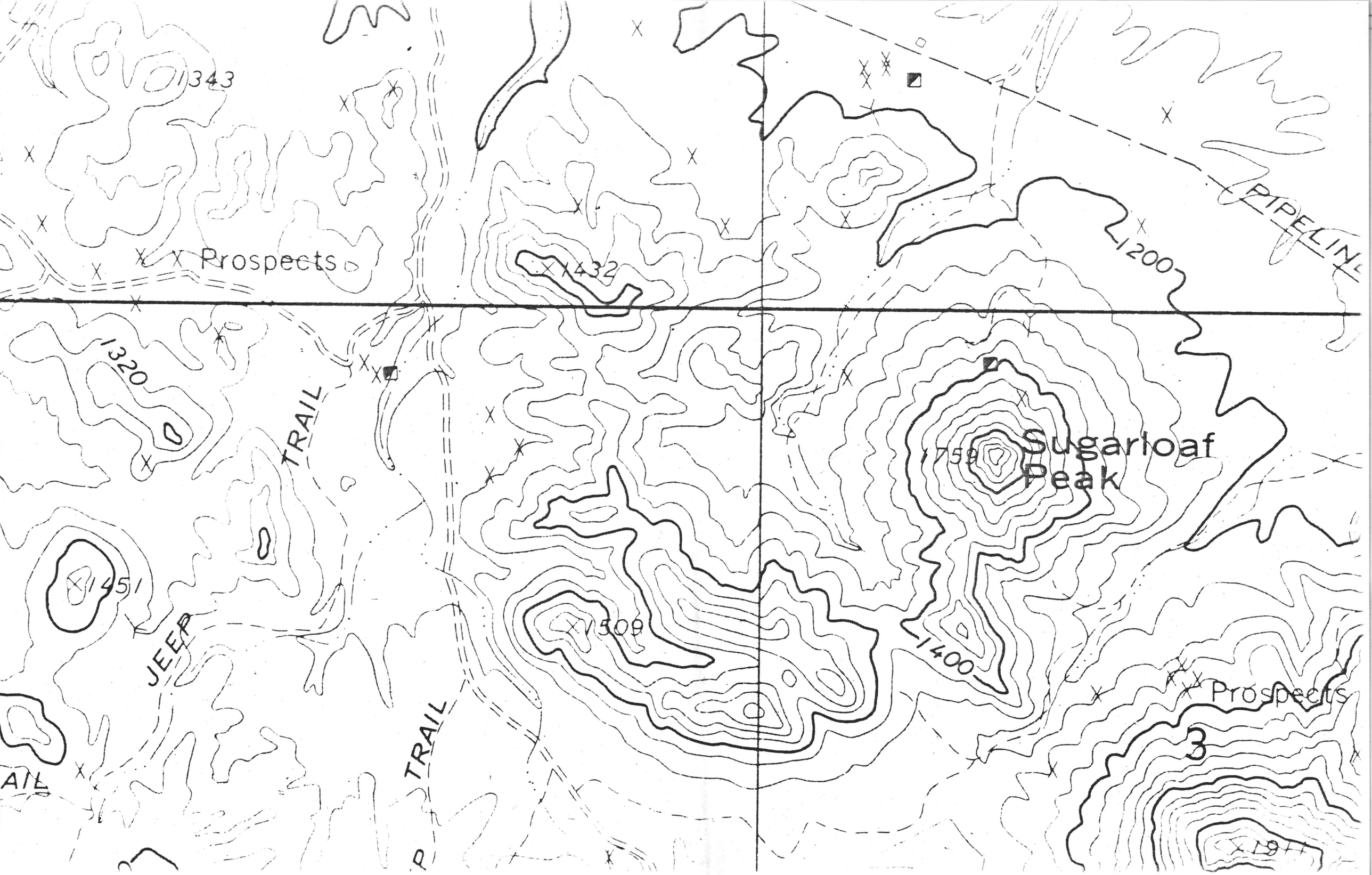
Sugarloaf Peak - Drill Hole Intervals Greater Than 0.01 oz Au/Ton

HOLE NO.	TD	INTERVAL /.01	GRADE	COMMENTS
SWR - 5	340'	85'	.026	Inclined 60°
SWR - 2	400'	185'	.021	Inclined 70°
WW - 2	250'	105'	.020	Vertical Bottomed in .05 o/t.
WW - 9	250'	145'	.020	Vertical
SWR - 1	400'	135'	.018	Inclined 70°
SWR - 4	400'	140'	.018	Inclined 70°
SWR - 7	400'	150'	.018	Inclined 60°
SWR - 6	395'	100'	.017	Inclined 60°
SWR - 8	300'	25'	.017	Inclined 45°
WW - 8	250'	205'	.016	Vertical
WW - 1	250'	105'	.015	Vertical
SWR - 3	400'	110'	.014	Vertical
SWR - 9	400'	35'	.014	Inclined 70°
SWR - 11	400'	95'	.013	Inclined 70°
SWR - 13	300'	65'	.013	Inclined 70°
WW - 4	250'	60'	.013	Vertical
WW - 5	250'	130'	.013	Vertical-increase w/dept.
SWR - 10	400'	50'	.012	Inclined 70°
WW - 7	250'	40'	.011	Vertical
WW - 3	250'	30'	.011	Vertical
WW - 10	250'	75'	.011	Vertical
SWR - 12	300'	5'	.010	Inclined 70°
WW - 6	250'	NIL	<.010	Increased values w/depth
SWR - 14	740'	NIL	<.010	Inclined 40°, increase w/depth

missing SWR 15, 16, 17, 18

SWR-17 250' 15' .010


1343
Prospects
1432
PIPELINE
1200
1320
TRAIL
1451
JEEP
TRAIL
1509
1400
1750
Sugarloaf
Peak
Prospects
3
1911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Prospects
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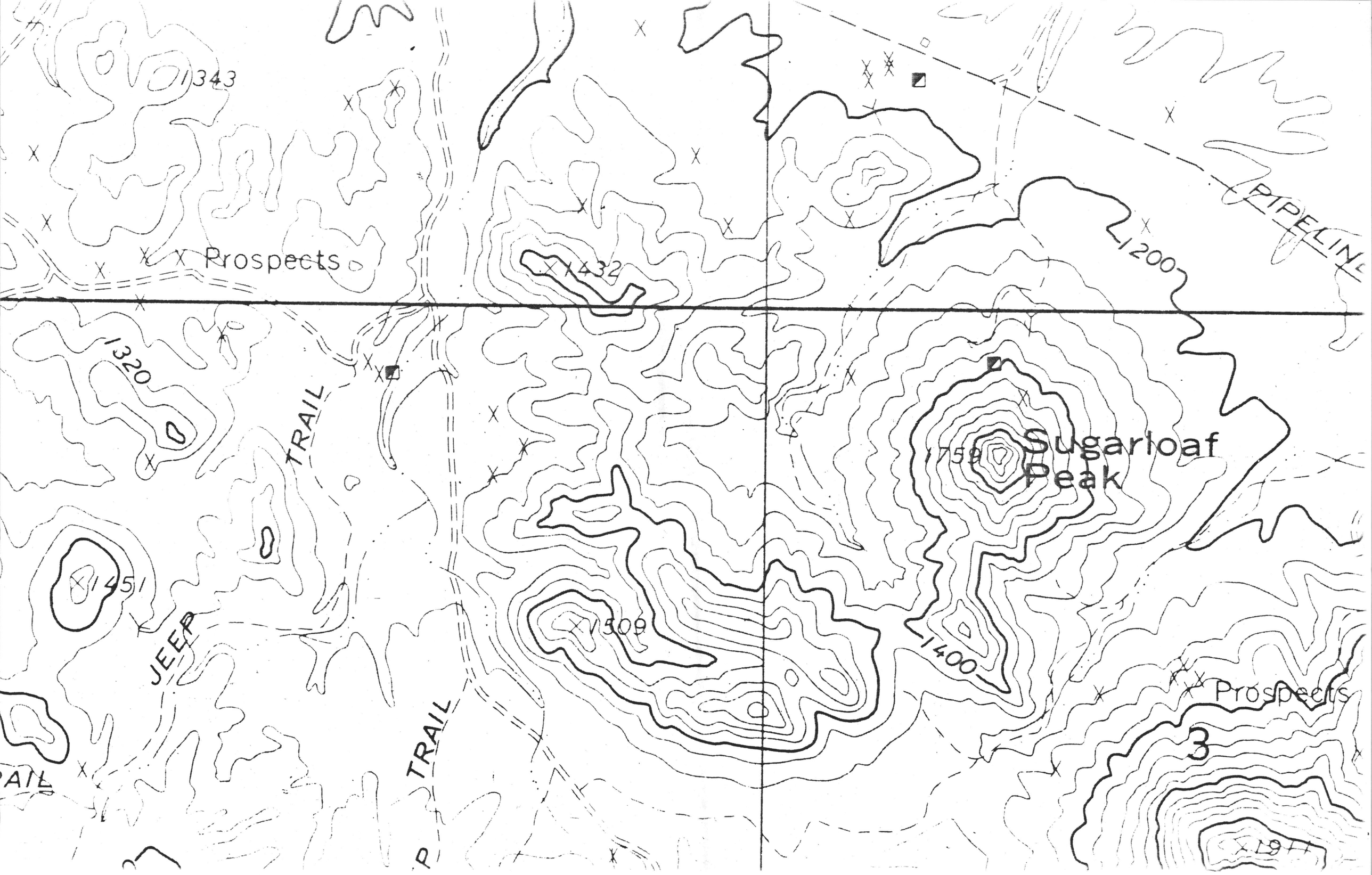
Prospects
3
TRAIL
TRAIL
1911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Prospects
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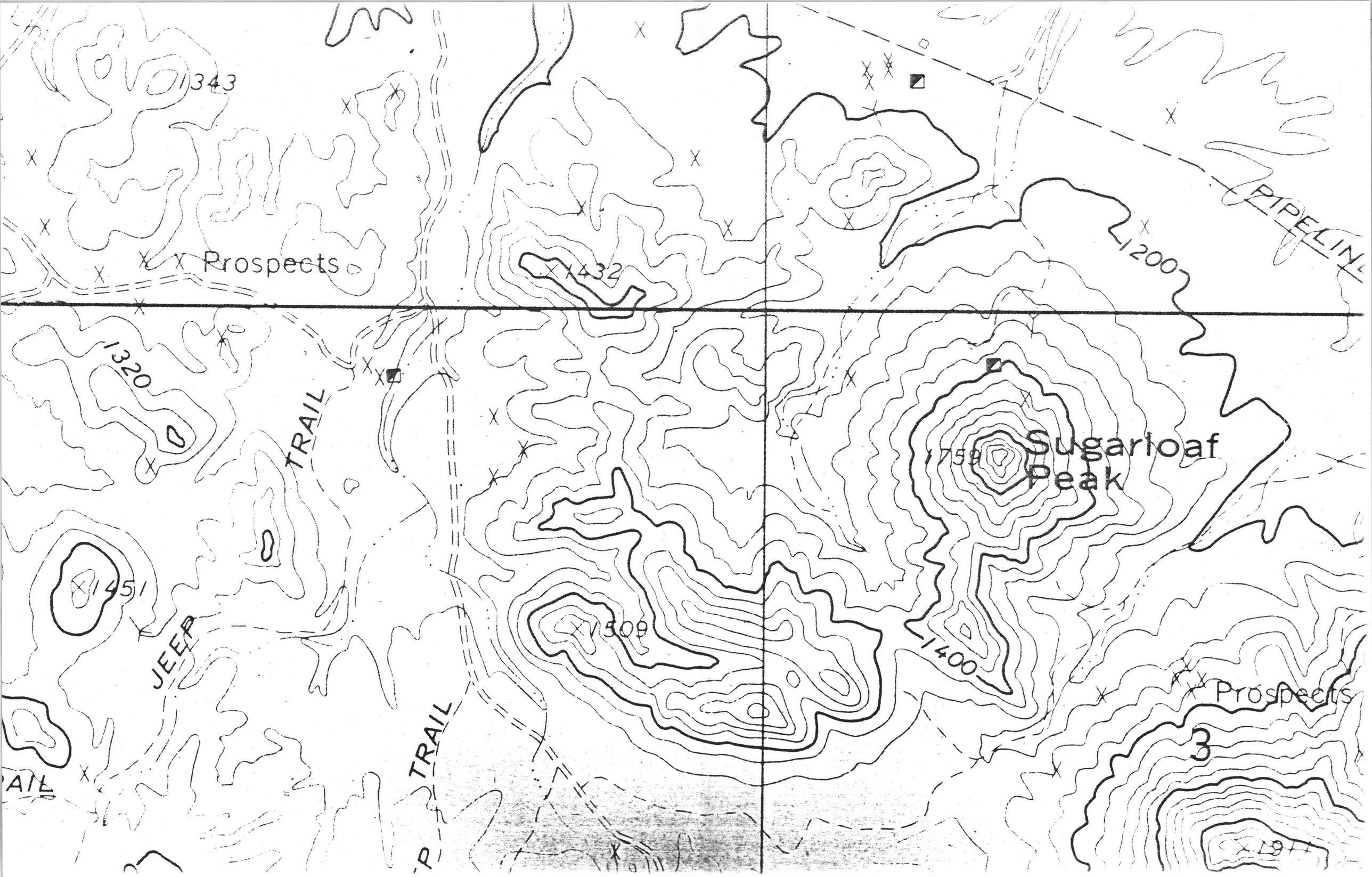
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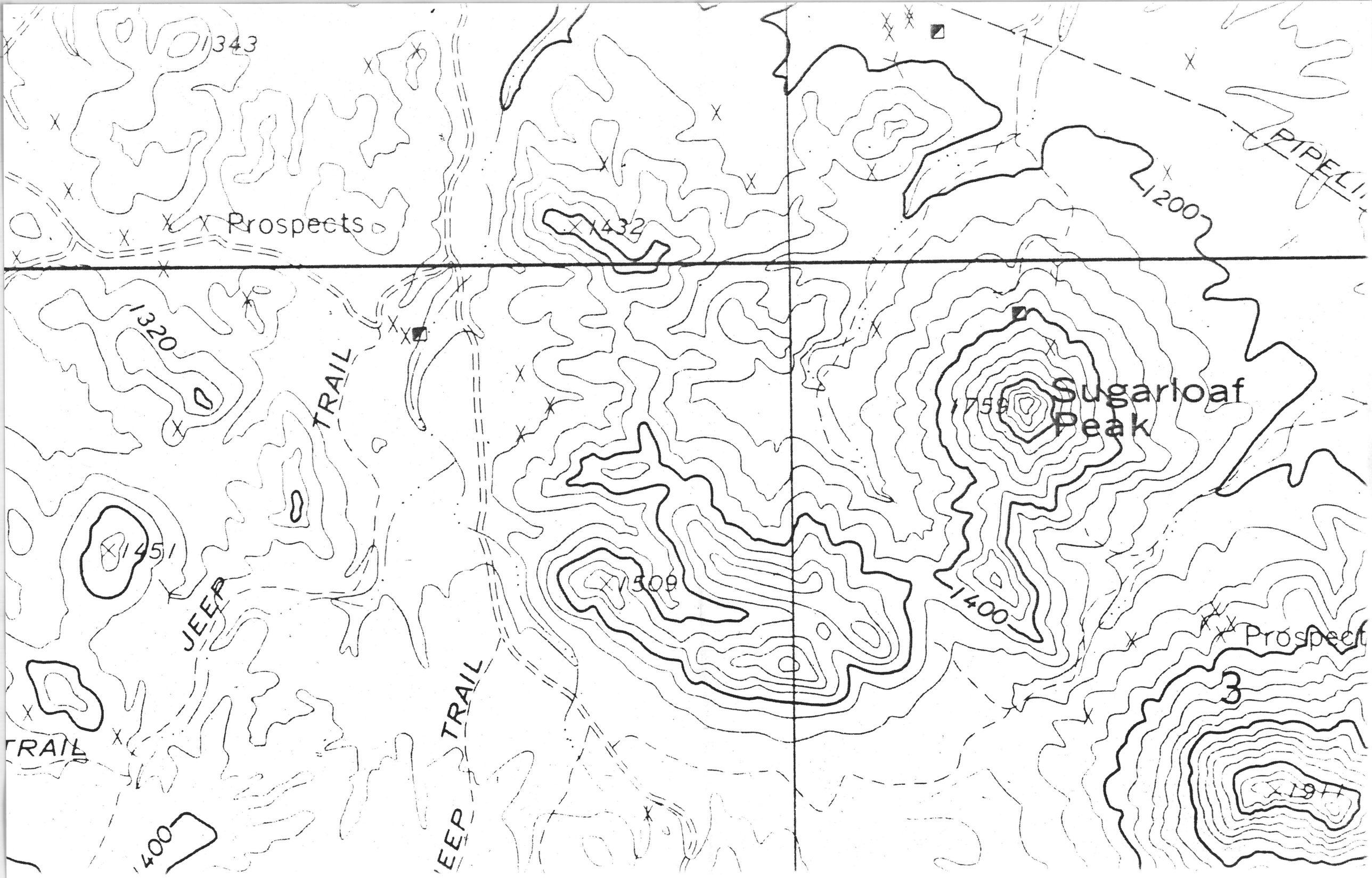
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1911
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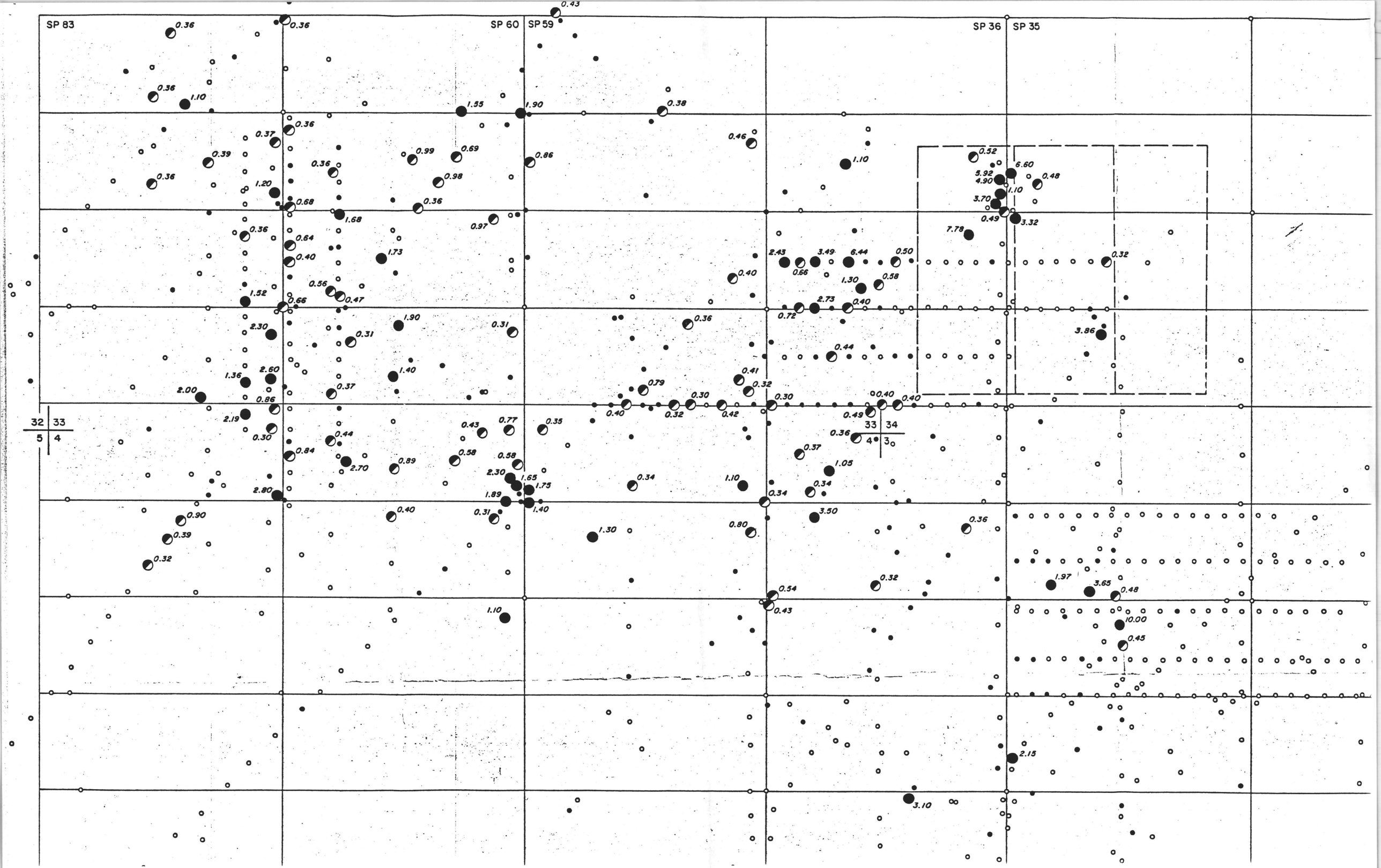
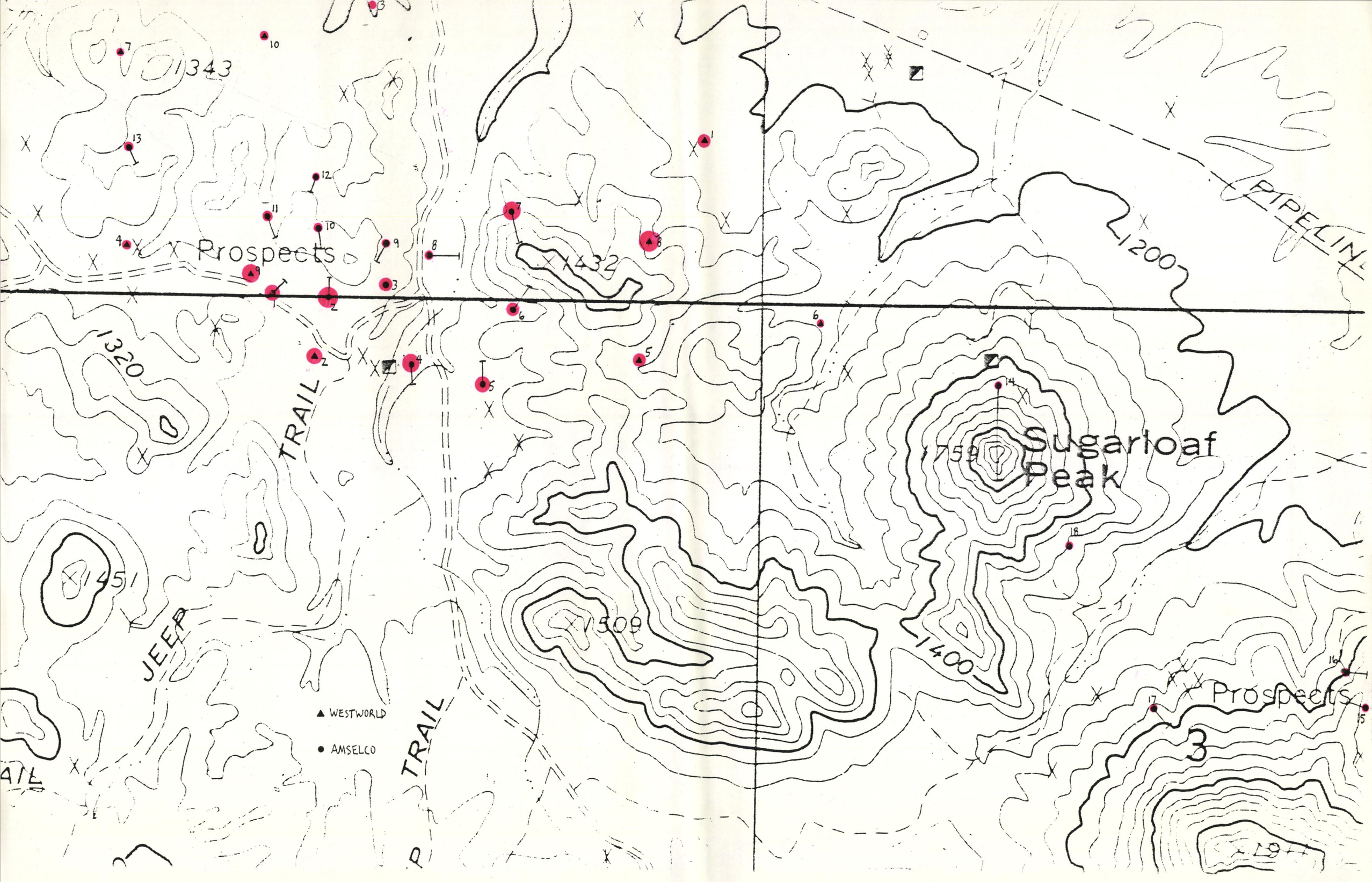
JEEP


SP 83
SP 60
SP 59
SP 36
SP 35
32 33
5 4
33 34
4 3



1343
Prospects
1432
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PIPELINE
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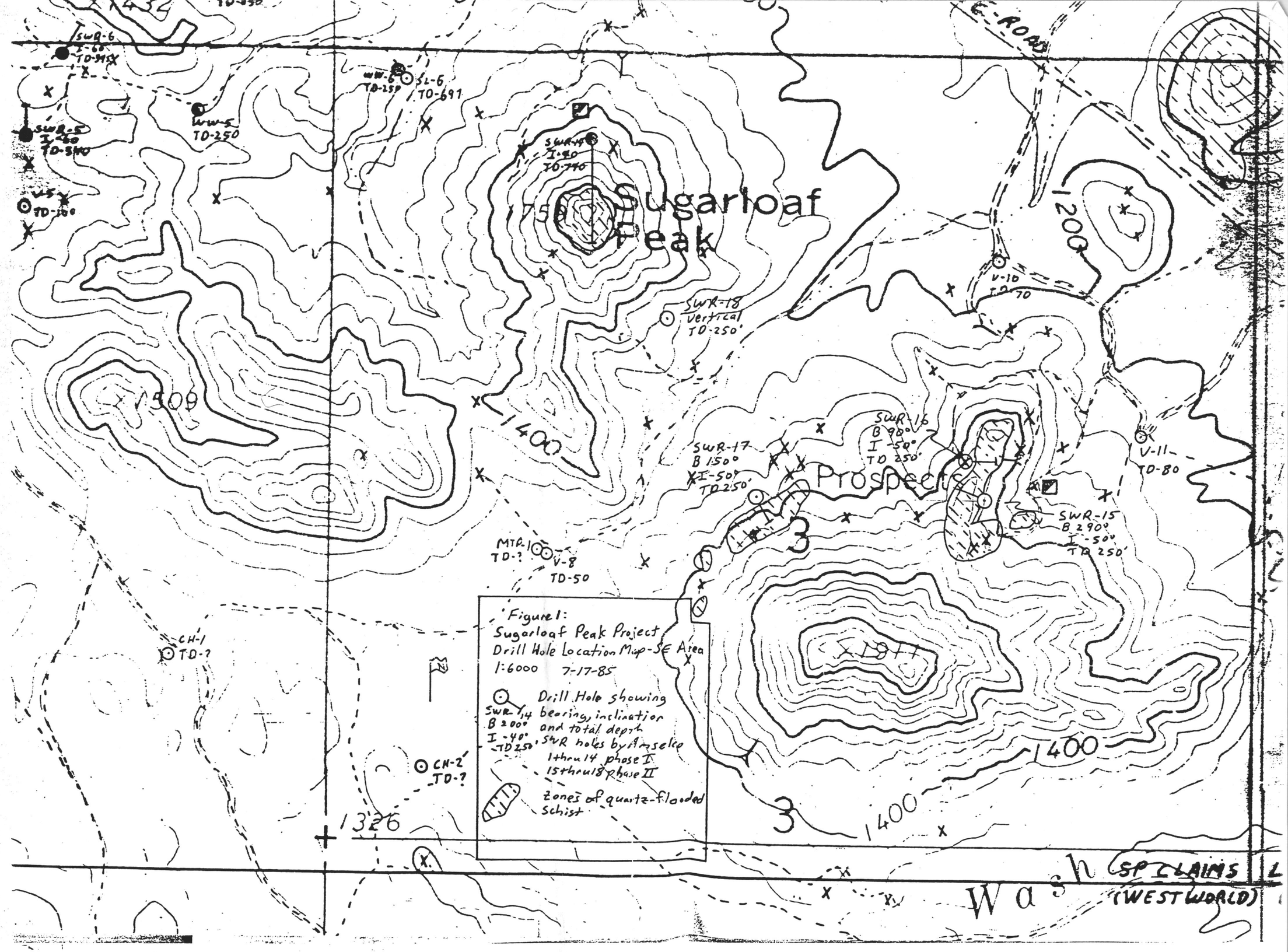
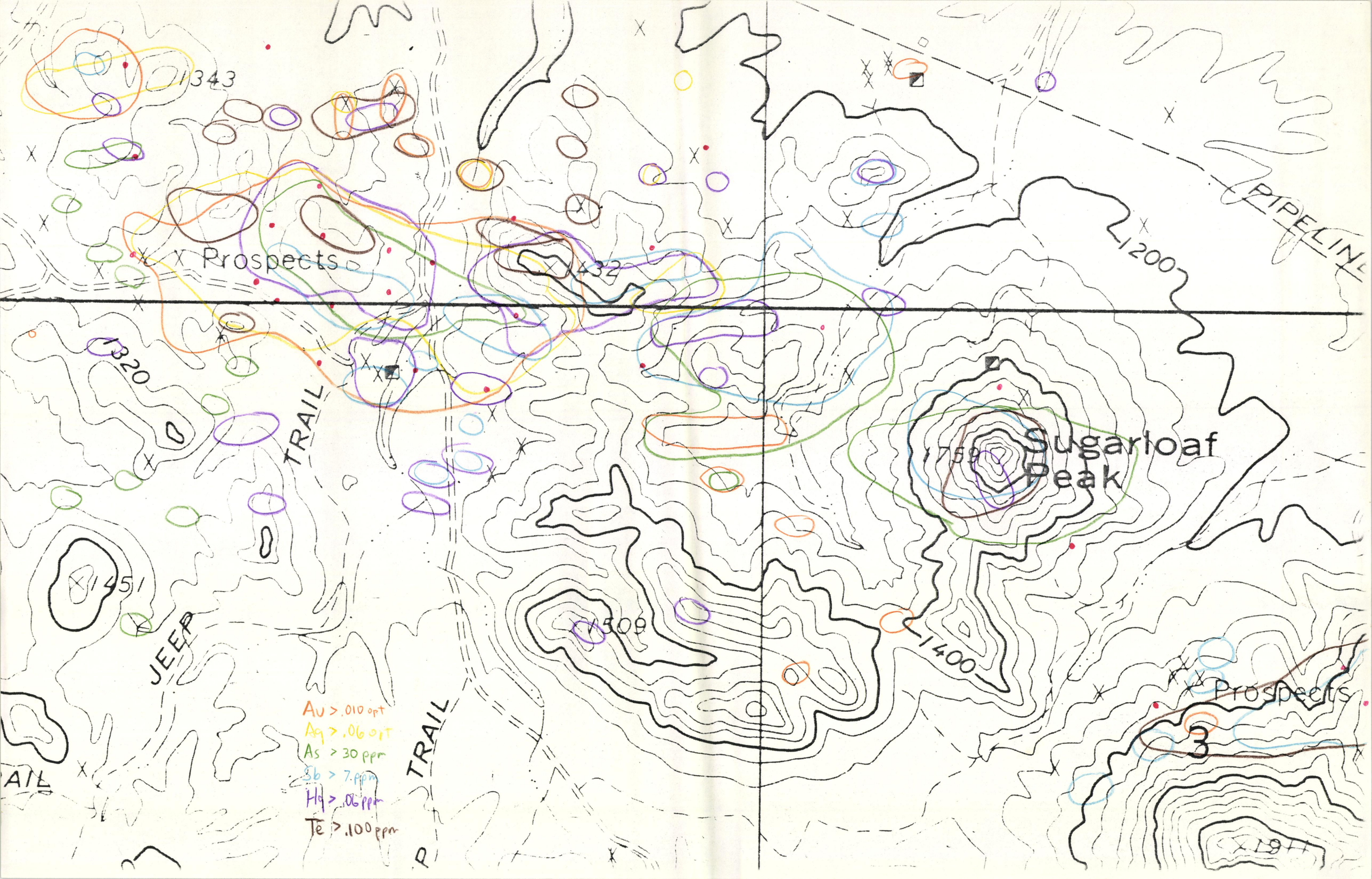
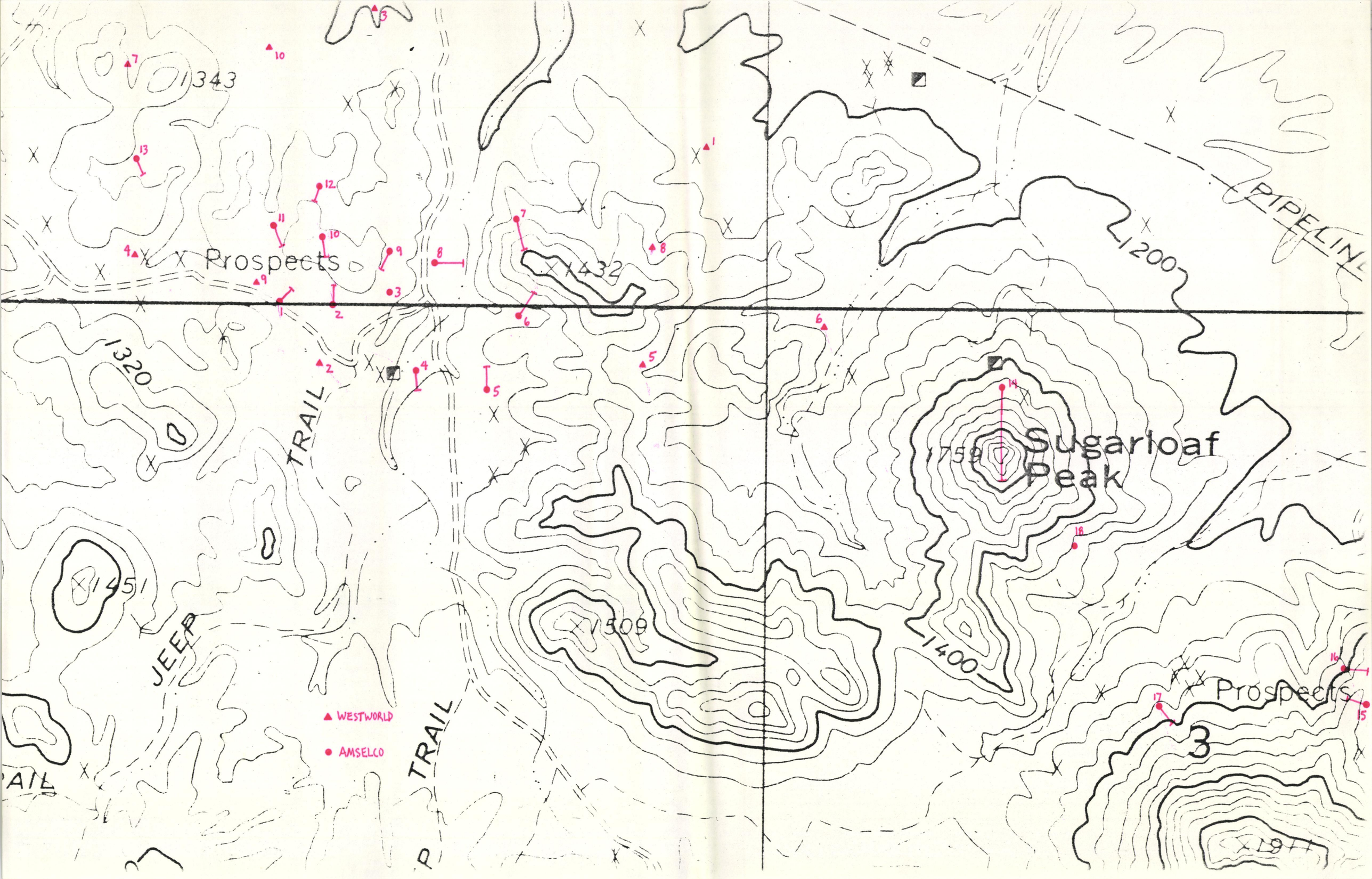
1759
Sugarloaf Peak
1451
JEEP
1509
1400
Prospects
3
TRAIL
▲ WESTWORLD
● AMSELCO



Sugarloaf Peak
Prospects
SWR-6
I-60
TD-395
SWR-5
I-60
TD-340
WW-5
TD-250
WW-6
TD-250
SL-6
TD-697
SWR-14
I-40
TD-740
SWR-18
Vertical
TD-250'
V-10
TD-70
V-11
TD-80
SWR-17
B 150°
I-50°
TD 250'
SWR-16
B 90°
I-50°
TD 250'
SWR-15
B 290°
I-50°
TD 250'
MTR-1
TD-?
V-8
TD-50
CH-1
TD-?
CH-2
TD-?
1509
1400
1200
1326
1911
3
Wash
SP CLAIMS
(WESTWORLD)
Figure 1:
Sugarloaf Peak Project
Drill Hole Location Map-SE Area
1:6000 7-17-85
Drill Hole showing bearing, inclination and total depth
SWR-14
B 200°
I-40°
TD 250'
SWR holes by Amselco
1 thru 14 phase I
15 thru 18 phase II
Zones of quartz-flooded schist


1343
Prospects
1432
1200
PIPELINE
1320
TRAIL
1759
Sugarloaf
Peak
1451
JEEP
1509
1400
Prospects
3
TRAIL
Au > .010 opt
Ag > .06 opt
As > 30 ppm
Sb > 7 ppm
Hg > .06 ppm
Te > .100 ppm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Sugarloaf
Peak
Prospects
3
1911
WESTWORLD
AMSELCO

CC: THY
SJK
orig SBS

AMERICAN SELCO LABORATORY
994 WEST GLENDALE AVENUE · SUITE 7
SPARKS, NEVADA 89431
(702) 359-4770

SP Claims
QUARTZITE + GLOBE

PROJECT NAME SW Prec Metals No. _____
ADDRESS 17602 N. Black Canyon Hwy, Suite 105
Phoenix, Ariz. 85023
Person Tom Young Phone (602) 863-2969
REPORT WILL BE SENT TO ABOVE ADDRESS UNLESS NOTED BELOW

ROCK GEOCHEM.
No. R-1991
Date Received _____
Date Reported _____
Page 1 of 1

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In O.P.T. Au	Ag					
rock chips ~~[illegible]~~ + Dump	Qtz	1	TR	.10					
rock chips		2	TR	.05					
drill cuttings		3	.002	.10					
rock chips		4	.025	.10					
drill cuttings		5	.004	.05					
drill cuttings		6	.002	.05					
rock chips		7	.017	.05					
rock chips		8	.006	.05					
rock chips		9	.055	.05					
drill cuttings		10	.004	.10					
drill cuttings		11	.002	.10					
drill cuttings		12	.002	.05					
rock chips		13	.014	<.05					
rock chips (grab)		14	.227	.50					
drill cuttings		15	.002	.05					
drill cuttings		16	.008	.10					
drill cuttings		17	.012	.10					
drill cuttings		18	.002	.10					
rock chips		19	.008	.10					
~~rock chips~~ drill cuttings		20	TR	.10					

= 7.01

Cmyr STR Orig S135
TAK BDR
EGL

AMERICAN SELCO LABORATORY
994 WEST GLENDALE AVENUE - SUITE 7
SPARKS, NEVADA 89431
(702) 359-4770

PROJECT NAME Yuma Recon No.
ADDRESS P.O. Box 427
Yuma, Arizona 85364
Person Tom Young Phone 782-0489
REPORT WILL BE SENT TO ABOVE ADDRESS UNLESS NOTED BELOW

ROCK GEOCHEM.
No. R-6101
Date Received
Date Reported
Page 1 of 1

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In opt. Au	Ag					
Panel - stockwork in phyllite	Quartzite, Az.	1	<.005	<.10					
" " " " (includes shear)		2	<.005	<.10					
Panel - stockwork in phyllite		3	<.005	<.10					
Panel - Mod. fractured (1m) metarhyolite		4	<.005	<.10					
Panel - metarhyolite - 3-5% py - alunite		5	<.005	<.10					
Composite - dump - alunite & metarhyolite		6	<.005	<.10					
Composite - drill cuttings - metarhyolite		7	<.005	<.10					
Composite - drill cuttings - metarhyolite		8	<.005	<.10					
Argillically altered metarhyolite - panel		9	<.005	<.10					
Composite - dump - favors qtz vein (+ ZnS) in schist		10	<.005	<.10					
Control C		11	.036	.22					

AMERICAN SELCO LABORATORY
994 WEST GLENDALE AVENUE - SUITE 7
SPARKS, NEVADA 89431
(702) 359-4770

Quartzite Recon

PROJECT NAME Yuma Recon No.
ADDRESS P.O. Box 427
Yuma Az 85364
Person Tom Young Tony Ballou Phone 782 0489
REPORT WILL BE SENT TO ABOVE ADDRESS UNLESS NOTED BELOW

ROCK GEOCHEM.
No. R-6102 Y
Date Received
Date Reported
Page 1 of 1

SAMPLE DESCRIPTION (sent to Ruth Lab)	SAMPLE LOCATION	NO.	ASSAY RESULTS In opt. Au	Ag.					
Panel - Sericitic schist - mod. Stwk	Quartzite Az.	1	<.005	<.10					
Panel - Sericitic schist + qtz vein w. CuOx		2	<.005	<.10					
Panel - Trench - Shear + Oxides		3	<.005	<.10					
Panel - Trench - Shear + Oxides		4	<.005	<.10					
Panel - Qtz vein, Mod Oxides + wall rock schist		5	<.005	<.10					
Panel - Mod fresh schist		6	<.005	<.10					
Panel - Mz Granite with qtz veins + py.		7	<.005	<.10					
Dump Comp. - Marquitta mine - qtz w. hm		8	.157	<.10					
control		9	.073	.15					
Panel - Mz Granite w coarse py		10	.015	<.10					
~~Panel~~ Dump - Mz Granite w Coarse py		11	.021	<.10					
Panel - fractured lm schist		12	<.005	<.10					
Panel - Mod fresh schist		13	<.005	<.10					
Dump Composit - Bear Mine - Calcite, qtz, sid, hm		14	.020	<.10					
Panel - Cu bearing qtz vein		15	.005	.13					
Panel - Mz Granite - contact zone w Pc		16	<.005	<.10					
Panel - Endo skarn - epidote - diopside - Darling Mine		17	<.005	<.10					
Dump Composite - Skarn - Ep, ct, gn, py, cp " "		18	<.005	<.10					
Control		19	.039	<.10					
Drill cutting composite		20	<.005	<.10					
Dump Composite - Boyle Mine - Cu skarn		21	<.005	<.10					
Panel - road cut - Stwk in schist + Lm		22	<.005	<.10					
Panel - trench - Stwk in schist + Lm	Quartzite Az	23	<.005	<.10					
		24							
		25							

FAILURE TO SUBMIT A FULLY COMPLETED FORM SHALL RESULT IN RETURN TO SENDER AND DELAY RESULTS.

STATE: Az COUNTY: La Paz SEC. T R
RESULTS PLOTTED DATE:
SPECIAL INSTRUCTIONS: aqua regia - at Amselco Lab - Sparks
Split at 20 mesh

NO. OF SAMPLES 21 ASSAY TRACE
DATE SHIPPED 7/21/83
SHIPPED VIA: Consolidated
PROJECT NUMBER: 09555

REJECTS WILL BE DISCARDED UNLESS OTHERWISE NOTED
☐ STORE
X RETURN TO: Phoenix Lab

PULPS WILL BE STORED UNLESS OTHERWISE NOTED
☐ STORE
X RETURN TO: Suite #105 17602 N 81K
Phx Az 85032

AMERICAN SELCO LABORATORY
994 WEST GLENDALE AVENUE - SUITE 7
SPARKS, NEVADA 89431
(702) 359-4770

ROCK GEOCHEM.
No. R-6114

PROJECT NAME SW Precious Metals No. 09555
ADDRESS P.O. Box 427
Yuma, Arizona 85364
Person Tom Young Phone (602) 782-0489

Date Received
Date Reported
Page 1 of 1

REPORT WILL BE SENT TO ABOVE ADDRESS UNLESS NOTED BELOW

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In OPT Au	Ag	Au F.A.	Ag F.A			
Pan concentrate - drill chips - 80% pyrite, WW-3	Westworld's SP project - Dome Rock Mtns Ariz	5	8.74	1.52					
" " " " WW-9		6	.286	.29					
" " " " WW-8		7	.286	.29					
Control		8	.213	.32					
		12							
		13							
		14							
		15							
		16							
		17							
		18							
		19							
		20							
		21							
		22							
		23							
		24							
		25							

FAILURE TO SUBMIT A FULLY COMPLETED FORM SHALL RESULT IN RETURN TO SENDER AND DELAY RESULTS.

STATE: Az-Ca COUNTY: SEC. T R
RESULTS PLOTTED DATE:
SPECIAL INSTRUCTIONS: Duplicate results To Steve Kay - Phoenix

NO. OF SAMPLES 8 ASSAY TRACE
DATE SHIPPED 11/23/83
SHIPPED VIA: - delivered
PROJECT NUMBER: 09555

REJECTS WILL BE DISCARDED UNLESS OTHERWISE NOTED
☐ STORE
☐ RETURN TO:

PULPS WILL BE STORED UNLESS OTHERWISE NOTED
☐ STORE
☒ RETURN TO: Amselculab-Phoenix

WHITE COPY MAIL TO LAB • YELLOW COPY KEEP FOR YOUR RECORDS • PINK COPY ENCLOSE WITH SAMPLE SHIPMENT

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9502

PROJECT NAME SWPM-Sugarloaf P. OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In OPT. Au	Ag	Sb	As	Hg	Te	W#	T1
5x5 Panel - face - gray, highly sil. rhy tuff 10% fresh py	J.S. Sands claim - Subsurface	1	<.001	<.009	2	<10	.07	.020	26	1
5x5 Panel - face - oxidized, sericitic alt tuff - 5-10% lm/py	workings - 30 LEVEL	2	.016	<.009	<2		.13	.040	26	3
1x1 grab - silicified zone (low angle shear) w/ 5% sphal, galena, bornite (?)		3	.050	.239	85		.06	.030	35	7
4x4 Panel - Silic. oxidized hanging wall of #3 lm/py 5%		4	.020	.155	42		.03	.020	28	11
4x5 Panel - Pilar - Inter. silicified tuff, oxidized lm/py 5%		5	.003	<.009	4		.03	.045	32	2
Comp. - rubble 5% diss py in chalky rhy tuff, fresh py.	75 LEVEL	6	.003	.016	2		.04	.020	18	2
Comp - rubble - 10% diss fresh py in chalky, rhy. tuff - partial oxid.		7	.004	.024	<2		.05	.035	23	2
Comp - rubble - 10% diss py. part. oxidized along shears rhy tuff		8	.011	.015	2		.10	.020	22	2
2x2 Panel - f. wall of above - silicified shear zone - 5-10% py part. oxid. w/ chalcocite (?)		9	.006	.022	<2		.09	.020	24	1
Control		~~10~~	.100	.012					~~26~~	
5x3 Panel - face - wkly silicified rhy tuff w/ 5% fresh diss. py		11	.002	<.009	2		.04	.045	26	3
3x3 Panel - east rib same as above		12	.005	.025	2		.05	.020	28	3
5x3 Panel - sheared (low angle) tuff - strongly oxid. 10% lm/py - low angle shears	30 Level	13	.014	.039	30		.03	.040	30	6
4x4 Panel - s. as above but lower (strat) in shear zone - less shearing		14	.005	.021	6		.01	.010	26	4
3x3 Panel - pillar; silicified low angle shear zone - wk. gl - sp - bn (?)		15	.005	.028	18	<10	.06	.010	32	7
5x5 Panel - rib - bleached wkly silicified tuff - oxidized py 5%		16	.010	.055	2	20	.10	.025	33	4
5x5 Panel - same		17	.005	.027	4	10	.07	.040	28	5
Control -		~~18~~	<.001	<.009						
5x5 Panel, mod. silicified tuff - 5% diss lm/py (oxidized)		19	.017	.036	28	<10	.03	.020	25	7
5x5 Panel - same - somewhat more fracs., py follows foliation		20	.008	.028	14		.03	.040	28	5
5x5 Panel - same - slightly more fracs than above		21	.072	.120	55		.09	.030	27	5
5x4 Panel - bleached tuff - wk to mod. lm fracs, wkly sil.		22	.003	.091	24		.02	.010	25	8
5x4 Panel - sheared (low angle) tuff - oxidized lm/py		23	.022	.200	32		.04	.010	26	6
Control		~~24~~	.034	<.009						
grab - silicified tuff w/ gl, sp. - bornite (?) - low angle shear		25	.022	.90	34		.05	.010	16	24

STATE Az. COUNTY La Paz

SPECIAL INSTRUCTIONS

LAB NAME

ASSAY METHOD

SHIPPED FROM FIELD 8-27-84 VIA Consolidated RECEIVED PREPPED

SHIPPED TO LAB VIA REPORTED

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9503

PROJECT NAME SW PM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In OPT Au	Ag	As	Sb	Te	Tl	cut.	Hg
5x4 Panel - Sheared (low a-de) tuff, strongly oxidized	J.J. Sands claim - subsurface	1	.011	.146	<10	18	.100	1	25	.09
5x4 Panel - bleached tuff - mod. silicified 5% oxid. Imp py	30 LEVEL	2	.006	.027	<10	10	.055	1	32	.03
4x5 Panel - same w/ narrow qtz vein		3	.011	.056	<10	26	.010	<1	28	.05
control		4	.107	.012						
5x5 Panel - wk to mod. fractured, highly sil tuff, fresh py (10%)		5	.013	.042	10	18	.120	<1	28	.10
5x5 Panel - mod. silicified tuff - mod frac. Imp py		6	.041	.467	<10	155	.060	<1	24	.09
5x5 Panel - Same		7	.160	1.21	<10	80	.080	2	24	.07
rubble composite (?) - wkly frac., chalky tuff with 5% fine disp py	75 LEVEL	8	.005	.025	<10	4	.010	<1		.03
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
		20								
		21								
		22								
		23								
		24								
		25								

STATE Az. COUNTY La Paz.

SPECIAL INSTRUCTIONS

LAB NAME

ASSAY METHOD

SHIPPED FROM FIELD 8-27-84 VIA Consolidated RECEIVED PREPPED

SHIPPED TO LAB VIA REPORTED

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

1 of 4

ROCK GEOCHEM.

No. R- 9509

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	Bi	NO.	ASSAY RESULTS In OPT & PPM Au	Ag	Sb	As	Hg	Te	Tl
5x5 Panel - fractured rhy tuff - ser. alt.; strong hm jar. mod. sil.			1	.006	.020	4	<10	.05	.080	2
5x5 Panel - same qtz-lm-jarosite fractures - earthy & spec. hm.			2	.008	.012	4	<10	.05	.035	1
5x5 Panel - same			3	.011	.035	8	20	.07	.130	2
5x5 Panel - same, minor qtz-sulfide veins			4	.006	.145	12	20	.09	.090	1
Control			~~5~~	.023	.054					
5x5 Panel - same			6	.007	.020	2	<10	.10	.080	1
5x5 Panel - same			7	.008	.018	4	<10	.05	.040	<1
5x5 Panel - same			8	.006	.037	6	<10	.07	.065	1
5x5 Panel - same			9	.005	.036	2	<10	.10	.110	1
Control			~~10~~	.054	.011					
5x5 Panel - same			11	.007	.103	2	<10	.13	.060	1
5x5 - Panel - same			12	.003	.015	2	<10	.07	.025	2
5x5 Panel - same - less silicification & fracturing	Pb.		13	.010	.009	4	<10	.06	.080	1
5x5 Panel - same - fresher	175	4	14	.014	.025	2	<10	.07	.085	1
5x5 - Same -			15	.012	.035	2	<10	.15	.130	1
5x5 - same			16	.005	.038	2	<10	.14	.045	2
5x5 - same - mod sil. & hm			17	.009	.022	4	<10	.04	.180	1
5x5 - same - locally finely bx w/ more intense sil.			18	.010	.021	2	<10	.05	.130	<1
5x5 - same			19	.013	.031	2	<10	.13	.050	<1
Control			~~20~~	<.001	<.009					
5x5 - same - slightly less intense fracturing			21	.011	.012	6	<10	.03	.110	1
5x5 - same - mod. jar. - lm - qtz fracs, wk hm, bleached			22	.021	.031	6	<10	.02	.080	1
5x5 - same - more intense than above - strong hm frac.			23	.008	.028	2	<10	.08	.130	1
3x3 - Same - mod. sil. & frac. - hanging wall to #25			24	.008	.038	4	20	.05	.050	1
grab - 6" qtz vein - mod. lm (pyk.?)			25	.004	<.009	<2	10	.01	.085	<1

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS F.A. Au, Ag - Amselco Lab
Geochem Sb, As, Hg, Te, Tl - Skyline Lab

LAB NAME ASSAY METHOD

SHIPPED FROM FIELD 9-21-84 VIA delivered RECEIVED PREPPED

SHIPPED TO LAB VIA REPORTED

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

2 of 4

ROCK GEOCHEM.

No. R-9510

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In O.P.T. & PPM. Au	Ag	Sb	As	Hg	Te	Tl
4x4 - Sil. metarhy tuff, mod qtz-lm-jarosite fracs, hm stain		1	.005	.028	2	<10	.03	.100	<1
5x5 - same - more intense silicification		2	.001	.024	8	↓	.04	.050	↓
5x5 - same - bleached, mod. fracturing		3	.007	.013	2		.02	.100	
5x5 - same - strong jar.-lm fracs.		4	<.001	<.009	2	<10	.01	.055	<1
5x5 - Same		5	.002	.013	<2	10	.02	.015	1
Control		~~6~~	<.001	<.009					
10x2 - Bleached, arg (?) altered, strong jar-lm stwk - wk qtz		7	.004	.018	<2	70	.01	.380	2
7x2 - Same		8	.003	.016	2	70	.02	.400	2
7x2 - same		9	.012	.010	2	70	.01	.500	1
Control		~~10~~	.106	.014					
6x4 - same		11	.001	.016	2	50	.07	.180	2
3x3 - Bleached q-s-p alt., no silicification - jar-lm fracs		12	.021	<.009	2	20	.06	.025	<1
3x3 - p.p. - same - mod. reddish-violet hm stain		13	<.001	<.009	<2	10	.01	.005	<1
grab - 10" bull qtz vein, minor lm		14	.001	<.009	2	<10	.03	<.005	<1
3x3 - wall rock to above - same as #13		15	.027	.027	2	20	.04	.015	2
3x3 - Same, wkly silicified		16	.040	.024	2	20	.08	.080	<1
3x3 - same - mod. silicified, minor fresh py, strong hm-lm stain		17	.007	.033	2	20	.04	.030	2
4x3 - same - strong silicification		18	.003	.083	2	20	.04	.060	1
Control		~~19~~	.035	>.009					
4x4 - Same - Mod. silic.		20	.003	.024	2	<10	.03	.080	2
4x3 - Same		21	.005	.051	4	20	.04	.160	2
4x4 - same		22	.008	.024	6	20	.02	.060	2
5x5 - same		23	.011	.034	2	20	.20	.015	2
4x4 - Same - mod to intense sil.		24	.005	.029	2	<10	.02	.035	1
Grab - bull qtz vein		25	<.001	>.009	<2	<10	.02	<.005	<1

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS F.A. Au, Ag - Amselco Lab
Geochem Sb, As, Hg, Te, Tl - Skyline

LAB NAME _____ ASSAY METHOD _____

SHIPPED FROM FIELD 9-21-84 VIA delivered RECEIVED _____ PREPPED _____

SHIPPED TO LAB _____ VIA _____ REPORTED _____

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

3 of 4

ROCK GEOCHEM.

No. R- 9511

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	Pb	Bi	NO.	ASSAY RESULTS In Au	Ag	Sb	As	Hg	Te	Tl
4x3 Panel - meta rhy tuff; wk to mod sil, wk fractured				1	.026	.14	<2	<10	.04	.075	1
5x2 Panel - Same		150	2	2	.024	<.05	<2	<10	.12	.050	1
6x3 - mod. sil, wkly frac. - same				3	.010	.19	2	20	.05	.250	2
4x4 - p.p. - non-silicified, wkly frac. w/jar. - lm				4	<.003	<.03	<2	20	.03	.050	2
4x3 - p.p. - same				5	.006	.03	<2	<10	.05	.025	2
4x4 - same - very wkly sil, wk to mod. fracs.				6	.023	.27	<2	<10	.02	.100	1
Control				~~7~~	.033	.06					
4x4 - Same - non sil. - wkly fractured				8	.003	<.03	<2	<10	.04	.040	<1
8x1 - same - mod. jarosite on fracs.				9	.004	<.03	<2	10	.01	.060	<1
4x4 - Same - mod reddish lm stain				10	.048	.21	105	30	.03	.070	<1
3x3 - Same - wk lm stain				11	.057	.19	6	<10	.02	.040	1
4x4 - v. wkly sil. - mod. fractured				12	.042	.13	2	10	.05	<.005	<1
3x3 - same				13	.023	.17	4	10	.02	.100	<1
5x2 - same - mod. sil, strong lm stain & frac.				14	.015	<.05	2	10	.01	.015	<1
Control				~~15~~	<.003	<.03					
3x3 - non-silicified, wkly to mod. fractured.				16	.027	.07	2	<10	.02	.040	<1
3x3 - same - bleached.				17	.019	.33	2	<10	.03	.050	↓
3x3 - mod. sil - Same				18	.003	.03	<2	↓	.08	.050	↓
3x4 - Same - non-silicified				19	.036	.07	2	↓	.03	.010	↓
grab - 2" qtz vein w/ strong lm				~~20~~	.021	<.05	<2	↓	.03	.040	↓
Control				~~21~~	.023	.14					
3x3 - same - wkly sil. & fractured				22	.006	.03	<2	<10	.01	.380	<1
4x4 - strong sil. & frac, strong lm-hm				23	<.003	.03	↓	↓	.02	.090	↓
5x5 - Same				24	.006	.03	↓	↓	.09	.025	↓
grab - 2 ft. wide bull qtz vein				~~25~~	<.003	<.03	↓	↓	.03	<.005	↓

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS AA - Au, Ag - Amselco Lab
Geochem Sb, As, Hg, Te, Tl - Skyline

LAB NAME _____ ASSAY METHOD _____

SHIPPED FROM FIELD 9-21-84 VIA delivered RECEIVED _____ PREPPED _____

SHIPPED TO LAB _____ VIA _____ REPORTED _____

AMSELCO EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9512

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

09569

SAMPLE DESCRIPTION	SAMPLE LOCATION	Bi	NO.	ASSAY RESULTS In Au	Ag	Sb	As	Hg	Te	Tl
4x4 Panel - metarhy tuff, intense sil., wk to mod frac.			1	<.003	.03	<2	<10	.05	.44	<1
5x5 Panel - same, mod. fracs.			2	.011	.03	<2	<10	.03	.11	<1
2x3 Panel - same - wkly chloritic, non silicified		*	3	.010	<.05	<2	<10	.03	.23	<1
4x4 - same. wkly silicifica. qt-ser-pyolt.		*	4	.022	.12	<2	<10	.01	.12	1
4x5 - same. mod sil. & frac.			5	.003	.06	<2	<10	.01	.13	<1
5x5 - same			6	<.003	.03	8	20	.05	.19	<1
2x5 - v. wkly silicified			7	.012	.03	<2	<10	.06	.21	<1
Control		*	~~8~~	.110	.13					
4x4 - same, intense silicification, local fresh py, strong barstain			9	<.003	.03	<2	<10	.01	.27	<1
2x2 - same. wk to mod. sil., relatively fresh.			10	.006	<.03	2	<10	.02	.26	1
3x3 - same: bleached, mod. frac., jar & clays, non sil.			11	<.003	<.03	<2	<10	.07	.31	<1
3x5 - p.p. - face (adit) wkly sil w 3 to 5 vertical veinlets qtz - 1m		*	12	.020	.14	2	<10	.03	.14	<1
5x5 - p.p. - west rib of above - non sil, strongly fractured			13	<.003	.03	<2	<10	.02	.14	<1
5x5 - p.p. - east rib of above - same			14	.004	.03	<2	<10	.02	.14	<1
3x3 p.p. - same - non sil., bleached, mod jar. & lm. fracs.			15	.004	<.03	<2	<10	.01	.25	<1
Control		*	~~16~~	.060	.12					
4x4 - wkly chl. - same, mod. frac. 1m - jar, non sil.			17	.007	.03	<2	<10	.08	.15	<1
4x4 - same - qtz-ser-pyolt., mod to int. fracs, non sil.			18	.005	<.03	<2	<10	.03	.47	<1
3x4 - bleached - same non. high ∠ fracs. w/ lm/jar.		Pb	19	.006	<.03	2	<10	.06	.26	<1
5x3 - same - wkly sil, strong brn stain, mod. to wkly frac.		4 | 95	20	.004	.06	<2	<10	.02	.35	<1
4x4 - same - non sil., wkly to mod. frac., bleached			21	.006	.03	2	<10	.02	.76	2
Control			~~22~~	<.003	<.03					
3x4 - same -		*	23	.016	.12	2	<10	.05	.45	<1
3x3 - grab - qtz vein - milky qtz, minor lm.			~~24~~	<.003	<.03	2	<10	.03	.33	<1
4x4 - non-sil. tuff - qtz-ser-pyolt., very mino. fracs			25	.010	.09	2	<10	.02	.47	<1

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS A.A. Au, Ag - Amselco Lab
Geochem Sb, As, Hg, Te, Tl - Skyline

LAB NAME ____ ASSAY METHOD ____

SHIPPED FROM FIELD 9-21-84 VIA delivered RECEIVED ____ PREPPED ____

SHIPPED TO LAB ____ VIA ____ REPORTED ____

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9513

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

1 of 4

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In Au-Ag opt. - others ppm. Au	Ag	Sb	As	Hg	Tl	Te
3X3 Panel - wkly frac. metarhy., mod. fresh		1	<.003	.03	<2	<10	.03	2	.090
3X3 - Same wkly chl.		2	<.003	.03	<2	10	.05	1	.060
2x3 - metarhy, mod. frac., num. jar-lm fracs		3	<.003	<.03	<2	<10	.08	1	.080
Control	*	~~4~~	.059	<.05					
4X3 - p.p. - gray, highly sil. metarhy.	*	5	.069	.10	<2	10	.06	1	.040
7x2 - wkly sil, mod. frac. metarhy	*	6	.015	<.05	↓	<10	.12	1	.050
6x4 - wkly chl, slightly sil, modular		7	.008	<.03	↓	10	.09	2	<.005
grab - qtz vein, bx, mod. lm boxwork	*	~~8~~	.015	.12	<2	100	.03	4	.150
4X4 - footwall to above, strongly frac w/ jar, lm, bleached metarhy	*	9	.012	.10	4	30	.02	3	.200
5X4 - same - hanging wall to vein # 8	*	10	.016	.07	<2	20	.02	3	.030
5X5 - Intense jarosite - lm fracs in metarhy at low angle structures - hanging wall		11	<.003	.03	8	20	.04	3	.090
Control		~~12~~	<.003	<.03					
5X5 - Same as above - less intense fracs, footwall to low ∠ struc.		13	.004	.03	<2	20	.05	3	.120
5X5 - Intensely frac. w/ jarosite stnk		14	.003	<.03	↓	↓	.05	4	.050
5X5 - same - locally chloritic		15	<.003	<.05	↓	↓	.16	5	.020
5X5 - same - less chlorite		16	<.003	<.03	↓	20	.02	4	.045
7X3 - wk to mod. lm - jar frac.		17	.007	.03	↓	70	.03	3	.230
3X3 - Mod. sil - wkly to mod. frac. w/ strong hem stain, metarhy.		18	.007	.03	<2	90	.02	3	.130
Control	*	~~19~~	.028	.13					
6X4 - p.p. wk to mod frac, non sil metarhy.		20	.004	.03	<2	20	.06	3	.110
7X3 - same		21	.009	<.03	↓	10	.05	4	.130
3X4 - bleached, wkly sil, wkly frac. metarhy.		22	.008	<.03	↓	20	.08	1	.290
6X3 - same - mod. sil.		23	.008	.03	↓	10	.10	2	.200
5X5 - same - strongly sil.		24	.003	.03	<2	10	.08	2	.090
5X5 - same		25	.003	<.03	2	<10	.04	2	.140

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS geochem all elements
- Au, Ag - Amselco Lab
others - Skyline

LAB NAME _____ ASSAY METHOD _____

SHIPPED FROM FIELD 9-27-84 VIA delivered RECEIVED _____ PREPPED _____

SHIPPED TO LAB _____ VIA _____ REPORTED _____

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9514

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

2 of 4

SAMPLE DESCRIPTION	SAMPLE LOCATION	Pb	Bi	NO.	ASSAY RESULTS In opt. Au, Ag - other - ppm Au	Ag	Sb	As	Hg	Tl	Te
grab - bull qtz vein w/ 1-2% coarse lm boxwork				~~1~~	<.003	<.03	<2	<10	.05	1	.035
Control				~~2~~	.099	.15					
4x5 Panel - mod. sil. & frac., strong hm stain - metarhy.		125	2	3	.008	<.03	<2	<10	.12	2	.030
4x4 - mod. sil, mod. frac. w/ heavy hm stain metarhy				4	.009	<.03			.03	2	.045
3x3 - same - int. sil.				5	.015	.13			.03	1	.030
3x3 - mod. to wkly sil, mod. frac. metarhy				6	.015	.17		<10	.08	2	.034
3x3 same				7	.007	.03		10	.03	2	.025
3x3 same				8	.003	<.03		<10	.06	1	.035
2x3 - mod. sil & frac. - same -				9	.003	.26		<10	.05	1	.045
3x3 - non sil, bleached, intense stwk jar & lm.				10	.006	.06		30	.02	2	.030
3x3 - same				11	.025	.07		20	.03	2	.030
5x5 - same - fracs follow foliation				12	.009	.06		10	.10	2	.025
2x2 - local chl & pyritic zone in above				13	.014	<.05		20	.06	3	.045
3x3 - mod. sil, wkly frac. metarhy				14	.004	.03	<2	10	.02	2	.035
Control				~~15~~	.037	.10					
3x3 - same				16	.006	.03	<2	<10	.02	2	.040
4x4 - same				17	.008	.03	<2	20	.04	2	.040
4x4 - same				18	.008	.03	2	10	.03	2	.025
4x4 - same, with blotchy bull qtz				19	.018	.14	2	<10	.05	2	.045
4x4 - same - no qtz				20	.013	.13	<2	80	.08	2	.035
4x4 - wkly sil, mod. frac.				21	<.003	.03	<2	30	.06	3	.045
6x4 - mod. sil, wkly frac.				22	.004	.03	12	40	.03	3	.025
4x3 - v. wkly sil, wkly frac.				23	.003	.03	<2	30	.07	2	.060
Control				~~24~~	<.003	<.03					
grab - 6" calcite vein - locally Mn				~~25~~	<.003	<.03	<2	<10	.08	1	.025

STATE Az COUNTY ~~[illegible]~~ LaPaz

SPECIAL INSTRUCTIONS geochem all elements - Au-Ag - Amselco Lab, others - Skyline

LAB NAME _____ ASSAY METHOD _____

SHIPPED FROM FIELD 9-27-84 VIA delivered RECEIVED _____ PREPPED _____

SHIPPED TO LAB _____ VIA _____ REPORTED _____

AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9515

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

3 of 4

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS In opt - Au & Ag : others ppm						
			Au	Ag	Sb	As	Hg	Tl	Te
4X4 - wkly frac., non sil. metarhy		1	<.003	<.03	6	20	.10	2	.040
4X4 - trench - nonsil. v. wkly frac. metarhy		2	.004	.03	<2	30	.02	3	.080
4X4 - wkly sil, v. wkly frac. metarhy		3	.003	<.03	<2	10	.02	3	.030
6X3 - same		4	.007	.03	4	<10	.01	3	.020
3X3 - p.p. - nonsil, wkly frac. metarhy.		5	<.003	.03	2	10	.06	2	.005
4X4 - p.p. - same - strong hm stain		6	<.003	<.03	<2	20	.03	2	.010
grab - 4" qtz vein, mod. lm		~~7~~	<.003	<.03	<2	<10	.08	<1	<.005
4X4 - intense qtz flooded zone - mod. gray, no sulfides		8	.029	.21	<2	20	.07	<1	<.005
Control		~~9~~	<.003	<.03					
2X4 - swall of knifeshorp fault, mod. frac., bleached, nonsil		10	.039	.06	2	70	.07	2	.055
3X3 - same, less frac., n wall of fault above		11	.037	<.05	<2	20	.09	1	.005
3X3 - mod. sil & frac. metarhy - jar. & lm		12	.007	.03	<2	<10	.07	<1	.020
3X4 - p.p. - strongly bleached, nonsil.		13	.005	.06	18	40	.02	4	.035
5X5 - same		14	.004	<.03	<2	10	.13	2	.005
5X5 - mod. sil & locally bx, same fresh py.		15	.006	.03	<2	20	.27	<1	.015
Control		~~16~~	.035	.13					
5X5 - p.p. - same		17	.009	.03	<2	<10	.03	<1	.015
4X4 - local zone, sil tuff (metarhy) with EW vert. fracs w lm & jar.		18	.010	.03	2	<10	.09	1	.030
5X5 - mod. sil & frac. mod. hm stain		19	.008	.06	12	10	.03	<1	.015
5X5 - p.p. - strongly frac, mod. sil, minor qtz veining - sheared.		20	.036	.09	36	10	.03	<1	.015
5X5 p.p. - SE rib of above pit - same - less shearing		21	<.003	<.03	2	<10	.07	<1	<.005
Control		~~22~~	.027	.09					
6X3 pp - wkly frac., nonsil - western end of trench (24 & 75)		23	<.003	<.03	<2	20	.05	<1	.010
6X3 - same - mod. vert & hor. fracs - center of trench		24	↓	↓	↓	20	.04	<1	.015
6X3 - same - east end of trench - only rarely frac.		25				40	.07	<1	.020

STATE AZ COUNTY LaPaz

SPECIAL INSTRUCTIONS Geochem all elements - Au-Ag - fire assay, A.A. button - Amselco other elements - skyline

LAB NAME _____ ASSAY METHOD _____

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AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

ROCK GEOCHEM.

No. R- 9516

PROJECT NAME SWPM OFFICE Yuma

PROPERTY Sugarloaf Peak GEOLOGIST T. Young

4 of 4

SAMPLE DESCRIPTION	SAMPLE LOCATION	Bi	NO.	Au	Ag	Sb	As	Hg	Tl	Te
3X3 Panel - mod silt frac., heavy Fe stain metarhy			1	.009	<.03	<2	20	.03	1	.005
3X3 Panel - trench - mod. fresh - wkly frac., nonsil metarhy			2	<.003	.03	4	20	.06	2	.010
grab - 1ft. wide qtz vein, minor ~~[illegible]~~ l.m.			3	<.003	<.03	2	<10	.05	2	<.005
3X4 - v. wkly sil, wkly frac. metarhy - mod. jar.			4	.005	<.03	2	20	.03	3	.005
4X6 - wkly sil, wk to mod. frac., minor stwk.			5	.010	.06	<2	20	.02	3	<.005
5X2 - nonsil - mod to int. frac. metarhy			6	.008	<.03	2	20	.01	3	.010
5X5 - same but cut by low angle shear 28 to NE			7	.003	.03	<2	20	.03	3	.005
4X4 - bleached, mod. frac., generally low angle			8	.010	<.03	<2	20	.07	1	<.005
Control			~~9~~	.051	.12					
5X5 Panel - wkly frac., nonsil, mod. hm. metarhy			10	<.003	<.03	<2	20	.09	2	.010
8X1 - nonsil, strongly frac. - local fresh py metarhy			11	.004	↓	2	30	.07	2	.015
4X4 - qtz flooded zone, minor sulfides - metarhy, minor qtz veins	2400	150	12	<.003	↓	10	140	.12	2	1.000
5X5 - same no qtz veins			13	<.003	<.03	10	10	.10	1	.040
Control			~~14~~	.038	.07					
4X4 - nonsil, non frac. - intense ser. at base of sil. cap - metarhy			15	.003	<.03	8	20	.09	3	.050
5X5 ~~non~~ same w. intense jar. fracs.	460	2	16	<.003	↓	<2	20	.03	3	.025
5X5 - p.p. - sil. shish with white bull qtz + sp. hm.			17	↓	↓	44	210	.02	2	<.005
4X4 - same, nonsil, no qtz veins - ~~[illegible]~~ ser. schist			18	↓	↓	8	50	.05	3	.090
5X5 - wkly sil schist w/ Fe stain along fol.			19	<.003	<.03	2	20	.02	5	.015
4X2 - p.p. - seri. schist, num hm veinlets - base of sil. cap			20	.025	.10	2	40	.02	5	.120
5X5 - mod. sil schist w fracs along foliation, mod fresh py - mod. fresh rock			21	<.003	<.03	4	10	.07	1	.015
4X4 - same			22	↓	↓	2	20	.08	3	.020
4X4 - same - no diss py (oxidized) v. wkly sil.			23	↓	↓	2	20	.12	1	.005
6X2 - same - minor diss py			24	↓	↓	2	10	.03	3	<.005
Control			~~25~~	↓	↓					

ASSAY RESULTS In OPT. Au & Ag - others PPM

STATE Az COUNTY La Paz

SPECIAL INSTRUCTIONS geochem all elements
Au - Ag - Amselco Lab
others - Skyline

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