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SUMMARY OF DRILLING RESULTS

In the recent drill holes, erratic gold values are associated with clay, limonite after pyrite, and anomalous mercury and tungsten values. Drill hole intercepts with more than .3 ppm gold include:

Drill Hole	Intercept	Interval	PPM Gold
GB-5	80-90	10'	.31
	110-130	20'	.85
GB-7	0-5	5'	1.61
	60-75	15'	3.54 ?
	130-165	35'	.86
GB-11	145-150	5'	2.31
	270-275	5'	.89
GB-12	185-190	5'	.56
GB-13	110-115	5'	.99
GB-16	55-75	20'	.48

60-65 includes 8.80 PPM in screen test

0-145 <.02

0-185 highest value .15 PPM

0-185 highest 0.15

0.067 o/T

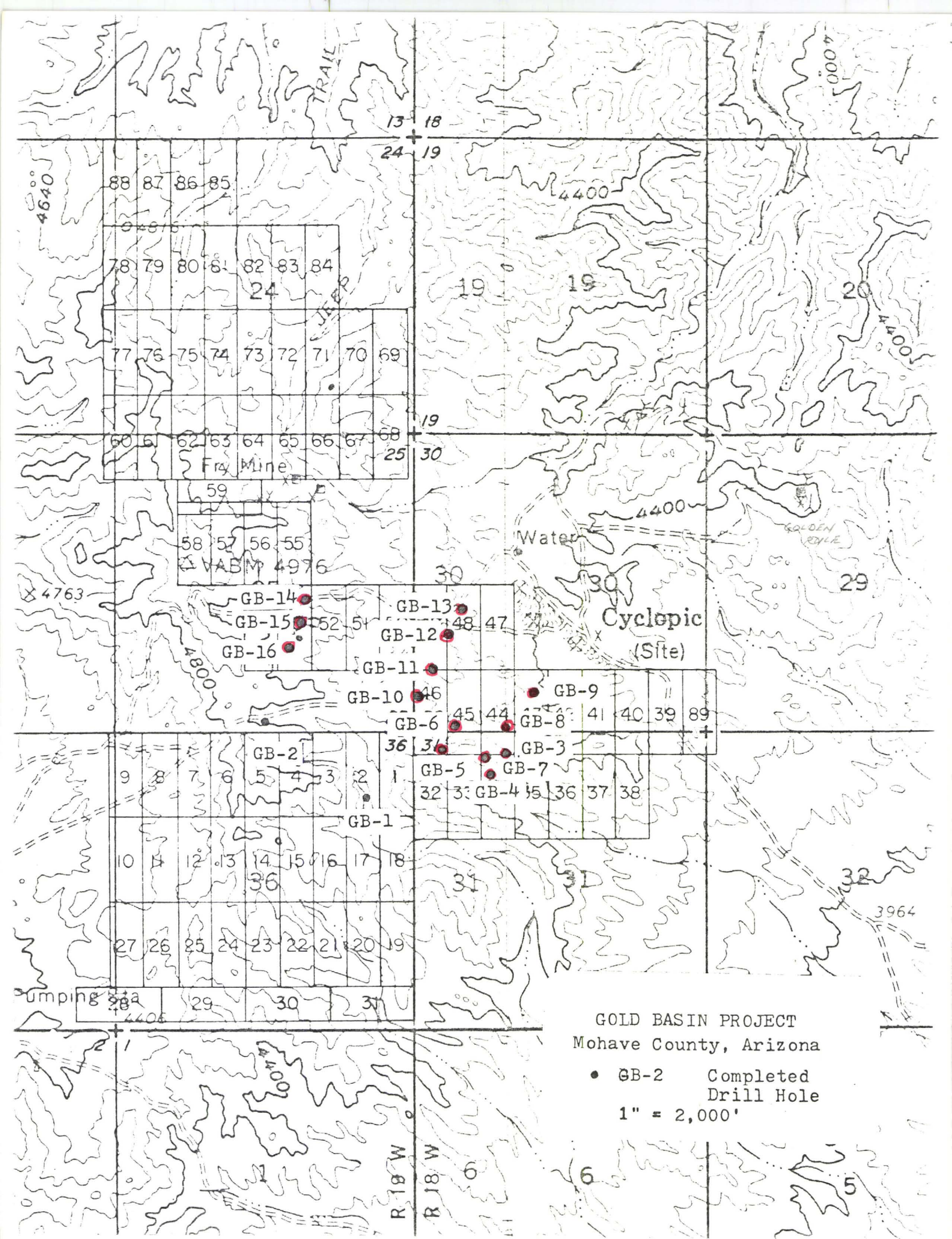
0.029 o/T

16 DH's 564'

Drill holes 5, 7, and 16 are positioned on and near an elongate west-northwest trending zone of mineralization. These vertical holes do not adequately define the grade of the gold mineralization but do indicate the relative intensity* and extent of mineralization. Representative surface samples taken along a road cut across this zone show a 60 foot width that averages 1.66 ppm gold with an adjacent 60 feet that averages .27 ppm gold. Additional surface samples show that the mineralized zone continues westward for several thousand feet through hole GB-5 and toward hole GB-16. This data and the drilling results indicate that the better gold mineralization is restricted to an elongate 50 to 100 foot wide zone with a probable potential of less than one million tons averaging .03 to .05 oz. gold.?? Mineralization at the Cyclopic Mine is similarly localized in an elongate, west-northwest zone of limited width with a probable tonnage potential of only several million tons. ?? of what grade?

* relative but low intensity

The drilling results at Gold Basin indicate that better-grade gold mineralization occurs in elongate, west-northwest trending zones of limited width and tonnage potential. The mineralized zone indicated by PCMI's drilling has an estimated potential for several hundred thousand tons of .03 to .05 oz. gold. ??


GOLD BASIN PROJECT
Mohave County, Arizona
• GB-2 Completed Drill Hole
1" = 2,000'
Cyclopic (Site)
Water
Fry Mine
VABM 4976
GB-1
GB-2
GB-3
GB-4
GB-5
GB-6
GB-7
GB-8
GB-9
GB-10
GB-11
GB-12
GB-13
GB-14
GB-15
GB-16
R 18 W
4400
4640
4800
4763
3964

SUMMARY OF AVERAGE VALUES FROM DRILLING RESULTS

PROSPECT Gold Basin COUNTY Mohave STATE Arizona PAGE ____ OF ____

HOLE NUMBER		INTERVAL	Au 2	Ag 2	As 2	Sb 2	Cu 2	Mo 2	Pb 2	Zn 2	Hg 2	W 2	F 1	Acid Sol. Ba 1	Total Ba % 1	U 1		GEOLOGY
GB-1		0-570	< .02	1.4	3	< 2	9	7	53	49	< .05	4						White Hills Granite
GB-2		10-600	.02	1.7	2	< 2	11	6	40	48	.11	4						Biotite Granite
GB-3		5-200	< .02	1.0	< 2	< 2	9	6	36	54	.10	7						Gneiss
GB-4		0-380	< .02	1.1	< 2	7	10	7	36	50	.37	8						Biotite Granite
GB-5		0-600	.06	1.5	2	3	15	< 5	27	60	.37	10						Gneiss
GB-6		0-300	< .02	1.4	< 2	2	10	6	35	49	.08	5						Biotite Granite
GB-7		10-185	.27	1.7	2	4	42	7	29	41	.46	20						Gneiss
		185-400	< .02	1.6	< 2	< 2	11	6	30	47	.18	4						Biotite Granite
GB-8		0-265	< .02	0.6	< 2	< 2	8	5	29	43	.09	4						Biotite Granite
GB-9		0-240	< .02	0.8	< 2	3	8	6	29	45	< .05	7						Biotite Granite
GB-10		0-360	< .02	1.0	< 2	< 2	10	6	36	50	.09	5						Biotite Granite
GB-11		0-300	< .02	1.2	< 2	< 2	11	6	36	52	.08	5						Biotite Granite
GB-12		0-230	< .02	1.4	< 2	2	9	< 5	21	40	< .05	7						Biotite Granite
GB-13		0-160	< .02	1.3	< 2	< 2	15	< 5	27	57	< .05	6						Biotite Granite
GB-14		0-320	< .02	0.8	< 2	< 2	16	6	45	52	< .05	11						Biotite Granite
GB-15		0-360	< .02	0.9	< 2	2	9	6	29	38	< .05	11						Biotite Granite
GB-16		10-360	.05	1.4	< 2	< 2	7	6	24	41	.05	28						Granite Gneiss
		AVG	< .02	1.0	< 2	< 2	10	6	35	50	.10	7						

ALL VALUES IN PPM UNLESS OTHERWISE INDICATED.

ASSAYS BY:
1. COPPER STATE ANALYTICAL, TUCSON.
2. U.S. BORAX RESEARCH CENTER, ANAHEIM.

CORN & AHERN

HOLE NO. GB - 1 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB #2 SECTION NE36 T. 28N R. 19W COLLAR COORDS. 655'S., 925'W. of N.E. Cor. Sec. 36

ELEVATION 4640' HOLE SIZE 5 1/8" Reverse Circulation HOLE ANGLE Vertical

SPUDDED 10/24/83 COMPLETED 10/30/83 DRILLER Conners Drllg.Co LOGGED BY W. Szymanski

TOTAL DEPTH 570'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0 - 20	20	Good				Qal	Alluvium	Granite & boulders and debris		
		Recov.	GB-1 10-20	<.02						
20 - 40	20		GB-1 20-30	<.02		Tfgl	Fanglomerate	Cemented granite boulders & debris	Unaltered	
			GB-1 30-40	<.02						
40 - 120	80		GB-1 40-50	.02		Pcfgr	Fine-gr. qtz-rich Biotite Granite	Dk gray & red qtz-rich biotite granite	Minor hematite & siderite noted on fracture	No indicated mineralization
			GB-1 50-60	<.02			" "			
			GB-1 60-70	.03						
			GB-1 70-80	.03						
			GB-1 80-90	.02			" "			
			GB-1 90-100	.03						
			GB-1 100-110	.03						
			GB-1 110-120	.03			" "			
120 - 150	30		GB-1 120-130	<.02			Biotite Granite	Med. gray med. gr.	Minor clays	
			GB-1 130-140	.04				Biotite granite	weak hematite stain	
			GB-1 140-150	.07						
150 - 155	5		GB-1 150-155	.08						Cuttings are almost entirely quartz
155 - 160	5		GB-1 155-160	<.02		F	155 - 160 Probable Fault			
160 - 170	10		GB-1 160-170	.03		Twgr	White Hills Granite (?)	Red, hard, massive coarsely porphyritic	Hematite stain	Complete Oxidation
170 - 220			GB-1 170-180	.03				Biotite granite	Argillia alteration	
			GB-1 180-190	.04				Gradational decrease in red color with increasing depth	Very weak chloritic alt	
			GB-1 190-200	.08			"			
			GB-1 200-210	<.02		F	205' - Fault			
			GB-1 210-220	.09						

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CORN & AHERN

HOLE NO. GB-1 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
220 - 300	80	Good	GB-1 220-230	<.02		Twgr.	White Hills Granite (?)	Massive coarse-grained lt red porphyritic biotite granite	Hematitic stain and minor clay alteration of feldspars	Complete oxidation
		Recov.	GB-1 230-240	<.02						No indicated mineralization
			GB-1 240-250	<.02						
			GB-1 250-260	.05						
			GB-1 260-270	.03						
			GB-1 270-280	.06						
			GB-1 280-290	.03						
			GB-1 290-300	<.02						
300 - 350	50		GB-1 300-310	.03		"	" "	" "		
			GB-1 310-320	.03						
			GB-1 320-330	<.02						
			GB-1 330-340	<.02					330-350 increased clay alteration	
			GB-1 340-350	<.02						
350 - 400	50		GB-1 350-360	<.02						
			GB-1 360-370	<.02						
			GB-1 370-380	<.02						
			GB-1 380-390	<.02						
			GB-1 390-400	.02		F	Fault		Minor clay & siderite noted	
400 - 410	10		GB-1 400-410	<.02		Twgr	White Hills Granite	" "		
410 - 440	30		GB-1 410-420	<.02		F	410-440-Zone of Shearing	Granite as above, but characterized by darker red stain & lighter altered feldspars	410-440 Increased clay & siderite	Complete oxidation
			GB-1 420-430	.03						
			GB-1 430-440	<.02						
440 - 450	10		GB-1 440-450	.02						

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CORN & AHERN

HOLE NO. GB-1 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
450 - 510	60	Good	GB-1 450-460	.02		Twgr	White Hills Granite (?)	Massive coarse gr., lt red porphyritic biotite granite	Hematite stain & minor clay alt. of feldspars	
		Recov.	GB-1 460-470	.02						
			GB-1 470-480	.02						
			GB-1 480-490	<.02						
			GB-1 490-500	<.02						
			GB-1 500-510	.06						
510 - 520	10		GB-1 510-520	.03		"	510-560 sheared	Cuttings were wet; dominantly rock flour w/only a few coarse fragments.	Feldspars are altered to clay. Minor siderite. Little biotite is evident; most has been alt to chlorite.	
520 - 575	5		GB-1 520-525	.03			granite			Orange-red stain suggests minor limonite after pyrite.
525 - 530	5		GB-1 525-530	.03			Major sheared			
530 - 535	5		GB-1 530-535	<.02			zone			
535 - 540	5		GB-1 535-540	<.02		"				
540 - 545	5		GB-1 540-545	<.02					Hematitic stain	
545 - 550	5		GB-1 545-550	<.02						
550 - 555	5		GB-1 550-555	<.02						
555 - 560	5		GB-1 555-560	.02		"	Granite & granulate rock			
560 - 565	5		GB-1 560-565	<.02		Twgr	White Hills	Massive coarse-gr. pro-	Minor clay & chlorite	
565 - 570	5		GB-1 565-570	<.02		"	Granite (?)	phyritic granite	alteration	
570	is	TD								

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CORN & AHERN

HOLE NO. GB-#2 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM _____ SECTION 25 T. 28N R. 19W COLLAR COORDS. 315'N., 2840'W. of S.E. Cor. Sec. 25

ELEVATION 4800 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 11-1-83 COMPLETED _____ DRILLER Connors LOGGED BY W. Szymanski

TOTAL DEPTH 600'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-10	10'	NO RECOV.				Qal	Alluvium			
								10-40 weak clay and siderite alt.	10-40 weak clay and siderite alt.	Variable limonite stain
10-50	40'	GOOD	GB-2 10-20	.04		Tfgl	Fanglomerate and	Mixed frags. of Cse feld, bio and some chips of		
		RECOV.	GB-2 20-30	.15						
			GB-2 30-40	.20		&		dark fine-grained granite		
			GB-2 40-50	.10		P€fgr	Fgr. Granite			
50-80	30'		GB-2 50-60	<.02			" "			
			GB-2 60-70	<.02						
			GB-2 70-80	<.02						
80-110	30'		GB-2 80-90	<.02			White Hills Granite	Cse gr. reddish granite chips of Qtz, minor biotite & fresh feldspr	80-100 Interval shows hematite stain but feldsp. are not altered.	
			GB-2 90-100	<.02						
			GB-2 100-110	<.02						
110-190	80'		GB-2 110-120	.23		P€bgr	Cse gr. Biotite Granite	Cse gr. medium gray biotite granite	Weak clay, chlorite	Minor siderite and weak limonite stain.
			GB-2 120-130	.13						
			GB-2 130-140	.19				Chips are qtz, gray feldspr and wkly chloritized biotite	alteration with minor	
			GB-2 140-150	.08						
			GB-2 150-160	.08					siderite on fracts.	
			GB-2 160-170	.15						
			GB-2 170-180	.05						
			GB-2 180-190	.06						
190-210	20'		GB-2 190-200	.04		P€bgr	Biotite Granite	Mixed frags of granite as above and white tuff.	Weak clay alteration	
						&	&			
			GB-2 200-210	.03		trt	Rhyolitic Tuft.			
210-250	40'		GB-2 210-215	<.02		P€bgr	Biotite Granite	Cse gr. biotite granite	Weak clay, chlorite.	Minor siderite and limonite stain.
			GB-2 215-220	.16						
			GB-2 220-225	.07				similar to granite above	alteration	
			GB-2 225-230	.04						
			GB-2 230-240	.24						
			GB-2 240-250	<.02						
250-300	50'		GB-2 250-260	<.02		Twgr	Whitehills	Cse gr. reddish gray	Feldsp. is unalt.	No indicated mineralization.
			GB-2 260-270	<.02						
			GB-2 270-280	<.02			Granite	Granite with minor biotite	Minor hematite stain	
			GB-2 280-290	<.02						
			GB-2 290-300	<.02				and dom. Kspar.	on fracts.	

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CORN & AHERN

HOLE NO. GB-2 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
300-400	100'	GOOD	GB-2 300-310	<.02		Twgr	White Hils Granite	Reddish-gray cse gr.	Hematite stain on fracts.	No indicated mineralization.
			GB-2 310-320	<.02						
		RECOVERY	GB-2 320-330	<.02				granite. Chips are qtz,	Minor clay alt. of plag.	
			GB-2 330-340	<.02				fresh reddish K feldspar		
			GB-2 340-350	<.02				and minor biotite.		
			GB-2 350-360	<.02						
			GB-2 360-370	<.02						
			GB-2 370-380	<.02						
			GB-2 380-390	<.02						
			GB-2 390-400	<.02						
400-530	130'		GB-2 400-410	<.02						
			GB-2 410-420	<.02						
			GB-2 420-430	<.02		Twgr	White Hills Granite			
			GB-2 430-440	<.02						
			GB-2 440-450	.03				430-460 Indicated shear	Increased hematitc stain	
			GB-2 450-460	<.02				zone		
			GB-2 460-470	<.02						
			GB-2 470-480	.04						
			GB-2 480-490	<.02						
			GB-2 490-500	<.02						
			GB-2 500-510	<.02						
			GB-2 510-520	<.02						
			GB-2 520-530	.04						
										Driller estimated
530-580	50'		GB-2 530-535	<.02		Twgr	White Hills Granite	530-580 Sheared granite	Increased hematitic stain	5-10 gpm water from
			GB-2 535-540	<.02						
			GB-2 540-545	<.02					and clay alt. in sheared	shear zone.
			GB-2 545-550	<.02						
			GB-2 550-555	<.02					zone.	
			GB-2 555-560	<.02						
			GB-2 560-565	<.02						
			GB-2 565-570	<.02						
			GB-2 570-575	<.02						
			GB-2 575-580	<.02						
580-600	20'		GB-2 580-585	<.02		Twgr	White Hills Granite	Reddish-gray cse gr. granite	Fragments show weak hematite	
			GB-2 585-590	<.02						
			GB-2 590-595	<.02					stain and appear relatively	
			GB-2 595-600	<.02						
600 is TD.									fresh.	

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CORN & AHERN

HOLE NO. GB-3 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB #44 SECTION NW 31 T. 28N R. 18W COLLAR COORDS. 275'S., 1590'E. of N.W. Cor. Sec. 31

ELEVATION 4480' HOLE SIZE 5 1/8" Reverse Circulation HOLE ANGLE vertical

SPUDDED 11/10/83 COMPLETED 11/11/83 DRILLER Connors Dril.Co. LOGGED BY R. M. Corn

TOTAL DEPTH 200"

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0 - 20	20	Good	GB-3 0-5	<.02		Pegn	Gneissic granite	Med. gray colored granitic rock	0 - 20 wk limonite	
			GB-3 5-10	<.02						
		Recov.	GB-3 10-15	<.02				Fragments show qtz feldspar & minor wispy biotite	Stain & some clay	
			GB-3 15-20	<.02						
20 - 60	40		GB-3 20-25	.03					20-60 Minor hematite & siderite stain on fragments	
			GB-3 25-30	<.02						
			GB-3 30-35	<.02						
			GB-3 35-40	<.02						
			GB-3 40-45	<.02						
			GB-3 45-50	<.02			" "	" "		
			GB-3 50-55	<.02						
			GB-3 55-60	<.02						
60 - 100	40		GB-3 60-65	<.02			60-130 (crushed zone?)	Lighter colored fragments of granitic material	60-100 Increased hematite & limonite stain on fragments	Siderite, hematite & some limonite after former fgr. pyrite
			GB-3 65-70	<.02						
			GB-3 70-75	.04						
			GB-3 75-80	<.02						
			GB-3 80-85	<.02				Frags are small & cuttings dominantly fines	Prominent limonite in fine fraction between 85 & 95	
			GB-3 85-90	<.02						
			GB-3 90-95	.02						
			GB-3 95-100	<.02						
100 - 130	30		GB-3 100-105	<.02				Cse frags are med. gray colored while fines are tan & limonitic	100-130 Limonite & siderite coat cse frags & in fines	
			GB-3 105-110	<.02						
			GB-3 110-115	.11						
			GB-3 115-120	<.02						
			GB-3 120-125	<.02						
			GB-3 125-130	<.02						
130 - 200	70		GB-3 130-135	<.02		Pegn	Gneissic granite	Med. gray colored frags of cse granitic material w/minor biotite	130-200 weak siderite & hematite stain. Biotite & feldspars are only slightly altered.	
			GB-3 135-140	<.02						
			GB-3 140-145	<.02						
			GB-3 145-150	<.02						
			GB-3 150-155	.03						
			GB-3 155-160	<.02						
			GB-3 160-165	<.02						
			GB-3 165-170	<.02						
			GB-3 170-175	<.02						
			GB-3 175-180	<.02						
			GB-3 180-185	<.02						
			GB-3 185-190	<.02						
			GB-3 190-195	<.02						
			GB-3 195-200	<.02						
200	is	TD								

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-4 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB# 34 SECTION 31 (NW NW) T. 28N R. 18W COLLAR COORDS. 560'S., 1290'E. of N.W. Cor. Sec. 31

ELEVATION 4420 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 11-11-83 COMPLETED 11-12-83 DRILLER Connors LOGGED BY

TOTAL DEPTH 380'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-20	20'	GOOD	GB-4 0-10	<.02		PEfgr	Fgr. biotite granite	Medium gray fgr. qtz-rch granite	Chlorite, clay and minor siderite	
		RECOV.	GB-4 10-20	<.02			20 - Fault			15-20 Prominent limonite stain on ~~fragments. Some of limonite may be after~~ pyrite
20-40	20'		GB-4 20-30	<.02		PEfgr	Mixed frags of Fgr granite and cse gr.	Cse fresh feldsp. & qtz. mixed with frags of fine	Clay alteration of fines only	
			GB-4 30-40	<.02		& Twgr	granite 40 - Fault	gr granite	KFeld. is fresh	
40-80	40'		GB-4 40-50	<.02		PEfgr	Fgr biotite granite	Medium gray fgr granite with fgrs of black qtz & biotite	Minor siderite on fractures. Black chloritic alteration	
			GB-4 50-60	<.02					evident in granite.	
			GB-4 60-70	<.02						
			GB-4 70-80	<.02			80 - Fault			
80-100	20'		GB-4 80-90	<.02		PEfgr	Sheared granite	Light gray to tan color from limonite and siderite	Chlorite, clay and siderite alt.	80-90 Prominent limonite after siderite
			GB-4 90-100	<.02				stain		
100-200	100'		GB-4 100-110	<.02		PEfgr	Fgr biotite granite	Medium gray fgr granite	Moderate clay and siderite alteration intensifying in	
			GB-4 110-120	<.02				as above with variable	shear zones at 130-150 and 170-180	
			GB-4 120-130	<.02				shearing at 130-150 and		
			GB-4 130-140	<.02				170-180		No indicated mineralization.
			GB-4 140-150	<.02					Rock exhibits dark chlorite	
			GB-4 150-160	<.02					alteration and some chips appear black.	
			GB-4 160-170	<.02						
			GB-4 170-180	<.02						
			GB-4 180-190	<.02						
			GB-4 190-200	<.02						

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CORN & AHERN

HOLE NO. GB-4 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
200-320	120'	GOOD	GB-4 200-210	<.02		P€fgr	Fgr Biotite Granite	Dark reddish gray chips with hematite stain mixed with medium gray chloritized granite to a depth of 240'	Moderate clay and siderite with black chlorite alteration.	
		RECOV.	GB-4 210-220	<.02						
			GB-4 220-230	<.02					Hematite stain increases with depth.	
			GB-4 230-240	<.02						
			GB-4 240-250	<.02			240 - Fault (?)	240 - Color changes to reddish gray. Granite appears to be a fine to medium grained holo-crystalline rock coarser gr. than granite above, and with less biotite	Clay and hematite alteration. Biotite is altered to light colored chlorite and sericite. Black chloritic alteration noted above 240' is absent.	
			GB-4 250-260	<.02						
			GB-4 260-270	<.02						
			GB-4 270-280	<.02						
			GB-4 280-290	<.02						
			GB-4 290-300	<.02						
			GB-4 300-310	<.02						
			GB-4 310-320	<.02			320 - Fault			
320-340	20'		GB-4 320-330	<.02		P€bgr	Cse grained Biotite granite	Sheared granite with chips of cse qtz. fspr and biotite	320-340 Clay and chlorite altn with limonite st. on clays	320-330 Limonite stain on frags and clay. Suggests former pyrite.
			GB-4 330-340	<.02			320-340 Shear zone			
340-380	40'		GB-4 340-350	.02		P€bgr	"	Medium to light gray granite Chips are qtz. feldspar and minor biotite	Feldspar frags. show minor hematite stain and partial alt. to clays.	
			GB-4 350-360	<.02						
			GB-4 360-370	<.02					Minor siderite noted on fractures.	
			GB-4 370-380	<.02						
380 is TD										

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CORN & AHERN

HOLE NO. GB-5 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB# 46 SECTION NW NW 31 T. 28N R. 18W COLLAR COORDS. 280'S., 555'E. of N.W. Cor. Sec. 31

ELEVATION 4560 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 11-13-83 COMPLETED 11-16-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 600'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-30	30'	GOOD	GB-5 0-10	<.02		Tfgl.	Fanglomerate	Tan and light brown chips of granite and sandy matrix		
		RECOV.	GB-5 10-20	<.02						
			GB-5 20-30	<.02						
30-90	60'		GB-5 30-40	<.02		PEfgr	Fine-grained qtz.-rich biotite granite	Medium brown to dark brown granite. Chips show fine-grained black qtz. and lt. feldspar.	Weak clay and siderite alteration	Limonite after siderite on fractures. Minor hematite stain.
			GB-5 40-50	<.02					some black chloritic altn indicated.	
			GB-5 50-60	<.02						60-90 Increased hematite stain.
			GB-5 60-70	<.02						
			GB-5 70-80	<.02						
			GB-5 80-90	.31						
90-110	20'		GB-5 90-100	.06			90-110 FIT zone	Mixed light and dark brown granite chips and dark brown cse granitic gneiss	Increased clay alteration.	Limonite stain after siderite.
			GB-5 100-110	.21			Mixed fgr and cse gr. gneiss		limonite stain	125' - Scattered chips of limonite stained clay - and qtz grains.
110-130	20'		GB-5 110-120	1.14		PEgn	Sheared gneiss	coarse chips of qtz and dark brown altered feldspar	after siderite on	Clay is probably from a fault.
			GB-5 120-130	.55					fractures.	
									Clay, chlorite and siderite	Minor hematite.
130-160	30'		GB-5 130-140	.11					altn.	
			GB-5 140-150	.13						
			GB-5 150-160	.12						
160-210	50'		GB-5 160-170	.03		PEggr	granite gneiss	Medium tan colored frags. of qtz and altered fspar.	Limonite stain after siderite is fairly abundant.	Complete oxidation
			GB-5 170-180	.13				Chips of qtz and alt. fspar are coarse grained.	Kfspar relatively fresh.	
			GB-5 180-190	<.02						
			GB-5 190-200	<.02						
			GB-5 200-210	.04						

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-5 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
210-260	50'	GOOD	GB-5 210-220	.06		PEfgr	Fine-grained	Medium brown, fine-grained	Clay, siderite and	
		RECOV.	GB-5 220-230	<.02		&	biotite granite	granite consisting of dark	substantial amounts of	
			GB-5 230-240	.03		PEgn		grains of quartz and altered fspar. with cse frags of qtz and fspar.	hematite	
			GB-5 240-250	<.02						
			GB-5 250-260	.04						
260-400	140'		GB-5 260-270	<.02		PEgrgn	Granite gneiss	Mottled lt. brown and gray chips of cse altd. fspar and qtz		
			GB-5 270-280	.10					Siderite, clay and minor	Limonite stain is widespread, but is
			GB-5 280-290	.04					chlorite	dominantly after siderite.
			GB-5 290-300	<.02						
			GB-5 300-310	.06						
			GB-5 310-320	<.02						
			GB-5 320-330	<.02						
			GB-5 330-340	.05						Complete oxidation.
			GB-5 340-350	.03			Granite gneiss	Mottled lt. brown and gray chips of cse. altd fspar and qtz	" "	
			GB-5 350-360	<.02						
			GB-5 360-370	<.02						
			GB-5 370-380	<.02						
			GB-5 380-390	<.02		T1	" 380-390 lamprophyre	Lamprophyre mixed with chips from gneiss.	" "	
			GB-5 390-400	<.02						
400-450	50'		GB-5 400-410	<.02		PEgn	gneiss	gneiss similar to above. Light colored zones 420-430 and 440-450 indicate zones of shearing	" "	
			GB-5 410-420	<.02			shear zones (?)		Increase in dark fgr chlorite alteration. Black chlorite is masked by siderite and limonite stain	
			GB-5 420-430	<.02			420-430			
			GB-5 430-440	<.02			&			430-440 Increased hematite stain.
			GB-5 440-450	<.02			440-450			

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CORN & AHERN

HOLE NO. GB-5 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
450-480	30'	GOOD	GB-5 450-460	<.02		PEgn	gneiss	Mottled light brown and gray chips of qtz and altd. fspar.	Siderite, clay and chlorite.	
		RECOV.	GB-5 460-470	<.02					Relatively strong black chlorite altn.	No indicated mineralization.
			GB-5 470-480	.04					bleached with	
									increased clay	
480-490	10'		GB-5 480-490	<.02			sheared	gneiss similar to above but		
							gneiss	exhibiting a variable		
490-520	30'		GB-5 490-495	<.02				lighter color		
			GB-5 495-500	<.02						
			GB-5 500-505	<.02						
			GB-5 505-510	<.02						
			GB-5 510-515	<.02						
			GB-5 515-520	<.02						
520-580	60'		GB-5 520-525	<.02		PEbgr	Cse gr biotite granite	Medium gray colored chips of cse qtz and fspar with cse grains of biotite.	Clay, siderite and	No indicated mineralization.
			GB-5 525-530	<.02						
			GB-5 530-535	<.02					minor chlorite.	
			GB-5 535-540	<.02						
			GB-5 540-545	<.02					Alteration is less intense	
			GB-5 545-550	.05						
			GB-5 550-555	.10					in comparison to gneiss.	
			GB-5 555-560	<.02						
			GB-5 560-565	<.02						
			GB-5 565-570	<.02						
			GB-5 570-575	.03						
			GB-5 575-580	.02						
580-600			GB-5 580-590	<.02						
			GB-5 590-600	.03						
600 is TD										

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CORN & AHERN

HOLE NO. GB-6 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB-45 SECTION 30 SW/SW T. 28 N R. 18 W COLLAR COORDS. 210'N., 865'E. of S.W. Cor. Sec. 30

ELEVATION 4550' HOLE SIZE 5 1/8" Reverse Circulation Connors HOLE ANGLE vertical

SPUDDED 11/16/83 COMPLETED 11/17/83 DRILLER Dril.Co LOGGED BY R. M. Corn

TOTAL DEPTH 300'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0 - 20	20	Good	GB-6 0-10 GB-6 10-20	<.02 <.02		Tfgl	Fanglomerate	Mixed frags of granite in muddy matrix	Not altered or mineralized	
		Recov.				F	20' Fault	Lim. & sid. stained granite frags.	Weak lim. & siderite alteration	
20 - 40	20		GB-6 20-30 GB-6 30-40	<.02 <.02		Pebgr	20-40 sheared cse por. bio. granite	Medium grey colored cse gr. granite w/cse biotite		
40 - 90	50		GB-6 40-50 GB-6 50-60	<.02 <.02		Pefgr	Fgr. qtz-rich biotite granite	Frg. dk grey to blk qtz-rich granite w/ fgr. biotite	Dominant cse frags w/little fines	
			GB-6 60-70	<.02						
			GB-6 70-80	<.02						
			GB-6 80-90	<.02						
90 - 100	10		GB-6 90-100	<.02			" "	" some shearing ? 30 - 50% fines	90-100 Increased lim., hematite & sid. coat. frags	Siderite & hematite common
110 - 120	10		GB-6 100-110 GB-6 110-120	.02 <.02			sheared		110-120 increased hematite	but no limonite after sulfides is evident.
120 - 150	30		GB-6 120-130	<.02		Pegn &	sheared gneissic granite orgran.gr	Qtz-rich - fine to cse gr. granitic rock w/increased feldspar cont. & lineated biotite or alt. material	Cuttings & fragments all exhibit hematite	
			GB-6 130-140	.02		Pefgr	& fgr biotite granite		Stain & some siderite & limonite coating fractures	
			GB-6 140-150	<.02						
150 - 160	10		GB-6 150-160	.03			150-160 Gouge & clay noted			
160 - 170	10		GB-6 160-170	.07			150-220 Crushed zone	Mixed frags of granitic material in dominantly fine sand & clay sized material	150-220 Substantial hematite & siderite	Zone of substantial clay, cuttings are almost all fines. Siderite & hematite are fairly abundant in fines and as stain on frags.
170 - 180	10		GB-6 170-180	.07					Minor limonite stain	
180 - 190	10		GB-6 180-190	<.02		Tl	180-190			
190 - 220	30		GB-6 190-200 GB-6 200-210	<.02 <.02		Pefgr				
			GB-6 210-220	<.02			Fgr. qtz-rich			
220 - 240	20		GB-6 220-230 GB-6 230-240	<.02 <.02			biotite granite	Granite exhibits prominant black color. Blk qtz grains & blk stained feldspar	Little or no alt. evident	No evidence of limonite or other indication of mineralization
240 - 300	60		GB-6 240-250 GB-6 250-260 GB-6 260-270 GB-6 270-280 GB-6 280-290	<.02 <.02 <.02 <.02 <.02		Pebgr	Cse gr. biotite granite	Med. gray to dk gray colored cse grained granite black stain or coloration continues, but less intense.	Moderate hematite & siderite on frags	
			GB-6 290-300	<.02						
300	is	TD								

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-7 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB#44 SECTION 31 (NE NW) T. 28N R. 18W COLLAR COORDS. 280'S., 1370'E. of N.W. Cor. Sec. 31

ELEVATION 4500 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 1-18-83 COMPLETED 1-20-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 400'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-5	5'	GOOD	GB-7 0-5	1.61		PEgn	Sheared gneiss	Tan & lt brown frags of cse qtz & alt fspar.	Clay	Limonite after fgr pyrite on fracts & in clay
		RECOV.								
5-40	35'		GB-7 5-10	.20			"	" "	Clays and siderite with	
			GB-7 10-15	.08						
			GB-7 15-20	.05					variable limonite st. after	Most of limonite stain is after.
			GB-7 20-25	.09						
			GB-7 25-30	.11					siderite	siderite. Minor limonite after pyrite.
			GB-7 30-35	.05				Chips are small and		
			GB-7 35-40	.04			35-40 Fault	bleached.		
			GB-7 40-45	.26						
40-60	20'		GB-7 45-50	.05		PEgn	Gneiss	Cse lt and dark brown chips of qtz and altd. fspar.	Dark coloration suggest chloritic alteration.	
			GB-7 50-55	.12						
			GB-7 55-60	.23						
			GB-7 60-65	(8.80)	(value from screen test & check assays)					
60-115	55'		GB-7 65-70	.78		PEgn	Sheared gneiss	Color varies		
			GB-7 70-75	1.03						
			GB-7 75-80	.09				60-90 Lighter colored		
			GB-7 80-85	.21				and small chips		
			GB-7 85-90	.05						
			GB-7 90-95	.05						
			GB-7 95-100	.09					Clay and siderite	
			GB-7 100-105	.04						
			GB-7 105-110	.14					increase below 105	105-115 Limonite stain after siderite
			GB-7 110-115	.05						
									Clay and siderite, lamp. chips	115-120 Prominent limonite stain-
115-125	10'		GB-7 115-120	.14		T1	Sheared gneiss &	Altd gneiss as above with	are completely altd to	mostly after siderite but some after
							lamprophyre	40% sideritized lamprophyre	siderite	pyrite. Diminished limonite with
			GB-7 120-125	.14						increasing depth to 130.
			GB-7 125-130	.13						
125-135	10'		GB-7 130-135	1.76		PEgn	Sheared gneiss			
			GB-7 135-140	1.71			Cse grained biotite	Cse chips of cse gr. qtz,	Slight altn.	
135-145	10'		GB-7 140-145	.67		PEbgr	granite	fspar and biotite		
							Fault			Complete oxidation.
145-160	15'		GB-7 145-150	.58			" "	Fgr chips similar to above	Clay & limonite stain	140-150 Limonite after pyrite on fractures.
			GB-7 150-155	.30						
			GB-7 155-160	.50						155-160 Prominent limonite after vfg pyrite.

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-7 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
160-225	65'	GOOD	GB-7 160-165	.50		PEbgr	Cse grained Biotite granite	Cse chips of cse grained qtz, lt. gray fspar and biotite	160-190 Weak to moderate clay alteration	
			GB-7 165-170	.22						
		RECOV.	GB-7 170-175	.24						No indicated mineralization.
			GB-7 175-180	.09						
			GB-7 180-185	.12						
			GB-7 185-190	.03						
			GB-7 190-195	.04					190-225 little or weak indicated alteration. Fresh fspar and biotite. Some biotite altd to chlorite. Minor limonite after siderite	
			GB-7 195-200	<.02						Minor limonite stain after siderite.
			GB-7 200-205	<.02						
			GB-7 205-210	<.02						
			GB-7 210-215	.03						
			GB-7 215-220	<.02						
			GB-7 220-225	<.02						
225-240	15'		GB-7 225-230	<.02		T1	lamprophyre	Fgr speckled - salt and pepper gray rock. 30% chlorite and 70% clay and siderite	clay, siderite and chlorite altn.	
			GB-7 230-235	.06						
			GB-7 235-240	.03						
240-300	60'		GB-7 240-245	.03		PEbgr	Cse - grained biotite granite	cse chips of cse gr. granite as above	weak chloritic altn of biotite	Minor limonite stain.
			GB-7 245-250	.03						
			GB-7 250-255	.05						
			GB-7 255-260	.03						
			GB-7 260-265	.03						
			GB-7 265-270	.02						
			GB-7 270-275	.03						
			GB-7 275-280	<.02						
			GB-7 280-285	<.02						
			GB-7 285-290	<.02						
			GB-7 290-295	<.02						
			GB-7 295-300	<.02						
300-400	100'		GB-7 300-305	<.02		PEbgr	" "	" "		
			GB-7 305-310	.05						
			GB-7 310-315	<.02				Rock is dark gray - darker than above 300'.	Darker color suggests some black chloritic alteration.	No indicated mineralization.
			GB-7 315-320	<.02						
			GB-7 320-325	<.02						
			GB-7 325-330	<.02						
			GB-7 330-335	<.02						
			GB-7 335-340	<.02						
			GB-7 340-345	.03						
			GB-7 345-350	<.02						
			GB-7 350-355	<.02						
			GB-7 355-360	<.02						
			GB-7 360-365	<.02						
			GB-7 365-370	<.02						
			GB-7 370-375	<.02						
			GB-7 375-380	.02						
			GB-7 380-385	<.02						
			GB-7 385-390	.02						
			GB-7 390-395	<.02						
			GB-7 395-400	.02						
400 is TD.										

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-8 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB# 43 SECTION 31 (SE SW) T. 28N R. 18W COLLAR COORDS. 275'N., 1855'E. of S.W. Cor. Sec. 30

ELEVATION 4450 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 11-20-83 COMPLETED 11-28-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 265'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-20	20	GOOD RECOV.	GB-8 0-5	0.07		Qal.	Alluvium and weathered granite.			
			GB-8 5-10	<0.02						
			GB-8 10-15	<0.02						
			GB-8 15-20	<0.02						
20-90	70		GB-8 20-25	<0.02		P€bgr	Biotite granite	Medium gray colored Cse to med gr. foliated biotite gr. chips show cse qtz & fspar with foliated fine to med gr. biotite.	Biotite and fspar are fresh and unaltered.	No indicated mineralization.
			GB-8 25-30	<0.02						
			GB-8 30-35	<0.02						
			GB-8 35-40	<0.02						
			GB-8 40-45	<0.02						
			GB-8 45-50	<0.02						
			GB-8 50-55	<0.02						
			GB-8 55-60	<0.02						
			GB-8 60-65	<0.02						
			GB-8 65-70	<0.02						
			GB-8 70-75	<0.02						
			GB-8 75-80	<0.02						
			GB-8 80-85	0.03						
			GB-8 85-90	<0.02						
90-130	40		GB-8 90-95	<0.02		P€bgr	90-130 Shear zone Sheared biotite granite	Similar to above but limonite stained and bleached	Clay and chlorite altn. siderite is not present.	Limonite stain on fractures. Limonite probably after vfg pyrite.
			GB-8 95-100	<0.02						
			GB-8 100-105	<0.02						
			GB-8 105-110	<0.02						
			GB-8 110-115	<0.02						
			GB-8 115-120	0.12						
			GB-8 120-125	<0.02						
			GB-8 125-130	<0.02						
130-200	70		GB-8 130-135	<0.02		P€bgr	Biotite granite	Dark gray foliated biotite granite	Darker color of granite due to fgr black chlorite altn in fspars. Variable altn of fspars to clay.	160-170 Limonite stained.
			GB-8 135-140	<0.02						
			GB-8 140-145	<0.02						
			GB-8 145-150	0.07						
			GB-8 150-155	<0.02						
			GB-8 155-160	<0.02						
			GB-8 160-165	<0.02						
			GB-8 165-170	0.02						
			GB-8 170-175	<0.02						
			GB-8 175-180	<0.02						
			GB-8 180-185	<0.02						
			GB-8 185-190	<0.02						
			GB-8 190-195	<0.02						
			GB-8 195-200	<0.02						

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-8 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
200-250	50	GOOD	GB-8 200-205	0.03		PЄbgr	Sheared	Bleached light gray - tan foliated	Fspars altered to clays. Biotite altered to chlorite (light color)	200-250 Limonite stained
		RECOV.	GB-8 205-210	0.02						
			GB-8 210-215	0.03			Biotite granite.	med to cse gr. granite as above.		Limonite partly alter.
			GB-8 215-220	0.03						
			GB-8 220-225	<0.02					Rock appears bleached.	siderite; minor limonite alter vfg pyrite.
			GB-8 225-230	0.02						
			GB-8 230-235	<0.02						
			GB-8 235-240	<0.02						
			GB-8 240-245	<0.02						
			GB-8 245-250	<0.02						
250-265	15		GB-8 250-255	<0.02		PЄfgr	Fine-grained biotite granite	Med to dark gray fine gr biotite granite	Fresh appearing with dark color	
			GB-8 255-260	<0.02				Chips exhibit 30-40% fine qtz grains, 15% fine gr.	caused by fgr. black chlorite altn.	
			GB-8 260-265	0.03				biotite and fine to med gr fspar.		
	265 is TD									

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CORN & AHERN

HOLE NO. GB-9 PROSPECT Gold Basin COUNTY Mojave STATE Arizona

CLAIM GB #43 SECTION 30 SESW T. 28N R. 18W COLLAR COORDS. 780'N., 2125'E. of S.W. Cor. Sec. 30

ELEVATION 4450 HOLE SIZE 5 1/8" Reverse Circulation HOLE ANGLE 90°

SPUDDED 11/28/83 COMPLETED 11/29/83 DRILLER Connors Drilling LOGGED BY M.H. Rauschkolb

TOTAL DEPTH 240'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-10'	10'	Excllnt	GB-9 0-5	.05		PEfgr	Granite (fill)	Medium grey fine grained granite consisting of ½-1 mm	Grey granite: Tr golden chlor. Orange granite: wk chloritiz-	Grey: None Orange: Wk to mod orange-brown limonite-
			GB-9 5-10	.06				intergrown quartz, opaque white feldspar, and dark grn-	ation of biotite. Large euhe-	clay on joints. Some local hematite aft.
								black biotite. Granite also	dral crystals pseud. replaced	biotite.
								contains 1% euhedral (2 mm x	by bl-grn chlorite. Small xls	
								4 mm rectangular) clear to	alt to golden yellow color.	
								cloudy white feldspar crystls.		
								Above grey granite is mixed		
								with lesser quantities of lt		
								brownish grey to orange med.		
								grained granite consisting of		
								1-2 mm intergrown quartz,		
								opaque white feldspar and		
								biotite. Biotite occurs in		
								2 mm euhedral crystals and		
								also as wispy segregations		
								distinctly different from		
								the evenly distributed fine		
								grained biotite in the grey		
								granite.		
								Sample contained 1% white to		
								light brown caliche.		
10-20'	10'	"	GB-9 10-15	.07		PEfgr	Granite	Medium grey fine grained	Trace golden chlorite altn of	Occ ½ mm limonite vnlt.
			GB-9 15-20	.04			Fgr Biotite Granite	granite as above. Black bio	fine grained biotite. ½% of	
								forms elongate crystals	biotite altd to earthy orange	
								rather than euhedral hexagon-	brown limonite, especially on	
								al plates. Biotite occurs as	joint surfaces. Wk red hema-	
								evenly distributed to inter-	tite staining of rock 1-5 mm	
								connected chains of crystals.	out from joints.	
20-30'	10'	"	GB-9 20-25	<.02			Granite "	As above, sample dust is no-	Moderate chloritization of	6 mm milky white quartz vein with red
			GB-9 25-30	.03				ticeably lighter colored	biotite up to 50% replacement	hematite and yellow-orange-brown earthy
								than intervals above and be-	by golden yellow to dk-grn	limonite selvages.
								low. 25-35'. Lt brn color	chlorite. Trace greenish	1 mm limonite cubes after py on some
								contrasts with darker grey-	white clay filling voids or	joint surfaces. (See chipboard)
								brown.	replacing feldspars.	
									Trace pale grn chloritic altn	
									of feldspars.	
									Minor red hematitic staining	
									of groundmass.	
30-40'	10'	"	GB-9 30-35	.03		PEfgr	Granite "	Medium grey fine-grn granite	50% of chips are strongly	Wk to mod orange-brn earthy limonite
			GB-9 35 40	.04				as above.	altd. Biotite is altd to	on joints.
								30-35'-much less sand-size	golden yellow chlorite (50%)	
								fraction than above or below.	or red hematite (50%). Hema-	
								May be fault (?) or bedrock/	titic altn causes rock to	
								pad fill contact (?)	turn white to orange-brown	
									due to loss of all black	
									mafic minerals.	

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CORN & AHERN

HOLE NO. GB-9 PROSPECT Gold Basin COUNTY Mojave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
40-50'	10'	Excllnt	GB-9 40-45	<.02		PEfggr	Granite -	Medium grey fine grained granite as above.	5% chlorite/hematite altd chips. Orange-brn chips contain hematite and/or golden chlorite after biotite.	Mod orange-brn earthy limonite on joints cutting the altd chips (5% of total). Tr octahedral limonite pseud aft py (See chipboard).
			GB-9 45-50	.03			Fgr Biotite Granite			
50-60'	10'	"	GB-9 50-55	<.02			Granite "	Granite as above. Possible fault 55-60'. Few large 1½" chips. Abundant silty material - slightly more orange.	3 % hematite > chlorite altd chips. Altn as above. 5% of feldspar in medium grey granite are altd to cloudy white clay. Minor chloritic altn in some chips.	Mod orange-brn earthy limonite on joints. Tr red hematite patches within orange-brn limonite. Possibly hem aft. py.
			GB-9 55-60	<.02						
60-70'	10'	"	GB-9 60-65	<.02			Granite "	Granite as above	5% hematite altd chips	Wk orange-brn earthy limonite on jts. Tr euhedral ½ mm hematite aft py (60-70'). (See chipboard).
			GB-9 65-70	<.02					Tr yellowish white clay altn of feldspar adjacent to limonite coated jts.	
70-80'	10'	"	GB-9 70-75	<.02						Wk orange-brn staining of Gmass 1-5 mm adjacent to some joints.
			GB-9 75-80	<.02					5% overall altn of biotite to grn chlorite	Occ limonite microveinlets (crackle vnlt cut through bleached rock.
80-90'	10'	"	GB-9 80-85	<.02						
			GB-9 85-90	.05						
90-100'	10'	"	GB-9 90-95	.06			Granite "	As above; Possible wk fault 90-95' - few large chips.	As Above	As Above
			GB-9 95-100	<.02				(No change noted in cutting sample.)		
100-110'	10'	"	GB-9 100-105	.03				Occ megacrystal (6x10 mm) of orthoclase in sample.		
			GB-9 105-110	.03						
110-120'	10'	"	GB-9 110-115	.03			Granite "	Medium grey granite as above plus 2% coarse grained pink granite w/ .3 mm biotite clusters 2-3 mm qtz and fspr and occ 10 mm fspr.	As above-med. gy granite Pink granite: biotite 50% altd to dk-grn chlorite & red hematite aureole. Some feldspars are pink-purple due to hematite staining.	As Above
			GB-9 115-120	.03						
120-130'	10'	"	GB-9 120-125	.09		PEfggr & Twgr.	Two Granites	Medium grey fine grained granite (70%) mixed w/ (30%) pink medium grained granite.	Grey: wk 5% chlorite repl of biotite. Tr yellowish-white clay repl. feldspar. Pink: Mod selective chlorite green stain in some feldspars.	Wk orange-brn earthy limonite on jts. Occ limonite crackle microveinlets cut through lighter colored granite chips.
			GB-9 125-130	.06						
130-140'	10'	"	GB-9 130-135	.04			Granite -	Medium grey granite as above 5% pink med grained granite	As Above	As Above
			GB-9 135-140	.03			Fgr Biotite Granite			
140-150'	10'	"	GB-9 140-145	.03			Granite (Fault)	Fine grained granite in Fault zone.	10% altn as above. 90% hematitic altn: biotite altd completely to dk grn chlorite or red hematite.	Pink chips are highly fractured and cut by limonite microveinlets.
			GB-9 145-150	.06				Abundant orange clay-sized material. Increased altn.	Loss of biotite plus limonite & hema. staining give chips a pink or orange color.	Moderate limonite on joints.

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CORN & AHERN

HOLE NO. GB-9 PROSPECT Gold Basin COUNTY Mojave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
150-160'	10'		GB-9 150-155	.02			Granite (Fault)	Fine grained granite in fault Zone	10% grey granite w/ mod. repl of biotite by chlor. All chips	Thin hematite or limonite microvein-lets cut all chips.
			GB-9 155-160	.08					microfractured and "bleached" along veinlets.	Tr MnOx
160							FAULT		90% hematite altd chips with destruction of biotite; either	
									replacement by chlorite or more commonly repl. by limon-	
									ite and/or hematite.	
160-170'	10'		GB-9 160-165	.12		PEfggr.	Granite -	Medium grey fine grained granite (as above).	90% of chips w/ wk golden chlorite altn of biotite.	Moderate hematite and limonite on jts in strongly hematite altd granite.
			GB-9 165-170	.06			Fgr Biotite Granite		10% pink hematitic altn w/loss of biotite.	Tr. black mineral w/ rectangular to square cross-section, black metallic
										luster, and red streak: Hematite (?) aft pyr.
										Mineral occurs w/ (calcite) on grey granite. (See chipboard 160-170).
170-180'	10'		GB-9 170-175	.10			Granite "	Greenish grey fine grained granite. (same rock as above, altn different.)	90% greenish grey chips. Biotite 100% altd to dk-grn	Wk limonite on jts. Tr hem in micro-
			GB-9 175-180	.05					chlorite and lesser yellow- white clay. Intense micro-	fractures.
180-190'	10'		GB-9 180-185	.03					fracturing. Minor hematite on a few fracs, stains.	
			GB-9 185-190	.05					Some feldspars pinkish orange 10% pink hematitic altn as in	
									fault zone.	
190-200'	10'		GB-9 190-195	.03			Granite "	Fine grained greenish grey to orange granite.	Predominantly hematitic altn chloritic altn.	Moderate orange-brn limonite on abdt jts. Tr hematite on microfractures.
			GB-9 195-200	.05					Fsprs slightly yellowish due to limonite staining and devel	
200			200				FAULT		of yellow clay around bio/ chlor crystals.	
200-210'	10'		GB-9 200-205	.03		PEfggr Twgr & tl(?)	Granite (breccia?)	Fine grained granite; sample predominantly crs sand-size	Intense removal of biotite. Fsprs pale grn due to incipi-	Moderate limonite on joints.
			GB-9 205-210	.09			(Two Granites?)	fspr cleavage frags & quartz. 2 mm chlor crystals and 4 mm	ent chloritization. Remnant biotite altd to dk grn chlor.	
210-220'	10'		GB-9 210-215	.10			Lamprophyre	fspr cleavage chips indica- tive of medium gr granite.	Strong limonite staining.	
			GB-9 215-220	.03				A few chips of dk gy to black diabase occur at 210-220'.		
220-230'	10'		GB-9 220-225	<.02						
			GB-9 225-230	.02						
230-240'	10'		GB-9 230-235	.02		PEfggr	Two Granites	Predominantly fine grained grey granite w/ lesser pink	Wk chloritization of fine grained biotite. Wk repl. by	Wk limonite on jts.
			GB-9 235-240	.03				medium grained granite.	hematite or limonite.	
240 is TD										

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CORN & AHERN

HOLE NO. GB-10 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB# 46 SECTION SW SW 30 T. 28N R. 18W COLLAR COORDS. 705'N., 85'E. of S.W. Cor. Sec. 30

ELEVATION 4600 HOLE SIZE 5 1.8" Reverse Circ. HOLE ANGLE Q ~~Vertical~~

SPUDDED 11-29-83 COMPLETED 12-1-83 DRILLER Cornors Drilling Co. LOGGED BY Mike Rauschkolb

TOTAL DEPTH 360'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-10	10'	EXCEL-LENT RECOV.	GB-10 0-5	<.02			Granite debris	Fine-grained reddish brown granite and weathered debris.	Strong hematite altn of biotite Tr chloritization	Moderate limonite on joints
			GB-10 5-10	<.02						
10-30	20'		GB-10 10-15	.06		PEfgr	Fine grained Biotite Granite	Medium gray fine-grained granite consisting of intergrown ½-1 mm qtz feldspar and biotite with 1% larger euhedral 2-4 mm clear to white feldspars. Fine grained biotite generally disseminated but really occurs as chains of crystals.	Moderate altn of biotite to golden yellow to dark green chlorite. Weak altn of biotite/chlor. to limonite/hematite.	Moderate limonite on joints. Moderate staining of groundmass with orange-brown limonite local tr hematite (usually altn of biotite)
			GB-10 15-20	.04						
			GB-10 20-25	.03				As above.	Wk. chlorite altn of biotite ~~minor yellowish white clay~~ altn in a few feldspars ~~adjacent to fractures.~~ Very weak hematite altn. wk. ~~overall yellowish Feox~~ staining	Weak limonite, occ. hematite on joints
			GB-10 25-30	<.02						
30-80	50'		GB-10 30-35	.02			30-165' sheared	As above, increased	Moderate chloritization of the fine grained biotite-wk. but increased clay altn of feldspars. Wk. hematite altn. of biotite.	Moderate limonite on joints; 1/8-1/4" staining adjacent to joints Tr black specular hematite (?) as irregular almost dendritic growths on non-limonitic joint faces
			GB-10 35-40	.03			"Crushed Zone"	Feox staining		
			GB-10 40-45	.02		PEfgr	Fgr. Biotite Granite	As above.	Moderate to strong chloritization of biotite. Wk-med clay altn of feldspar Increasing overall hematite staining	As above.
			GB-10 45-50	.03						
			GB-10 50-55	.03				As above, with very large chips V. Cse sand-size chips are lithic fragments (not non-mineralic). Zone is very well fractured, but probably not a fault.	As above.	As above.
			GB-10 55-60	<.02						

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-10 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
			GB-10 60-65	.06				As above, 30-40' abundant plus ½" chips	As above, 30-40'	As above, 30-40'
			GB-10 65-70	.03						
			GB-10 70-75	.02		PEfgr	Fgr. Biotite Granite			
			GB-10 75-80	.05						
80-85	5'		GB-10 80-85	.04						
85-90	5'	50% of normal	GB-10 85-90	.10						
90-95	5'	50% of normal	GB-10 90-95	.02		PEfgr	Fgr. Biotite Granite	Medium gray fine grained granite as above	Moderate chloritization of biotite	Moderate hematite/limonite on joints
95-100	5'	recov.	GB-10 95-100	<.02				A few chips of megacrystic granite containing 74 mm	Moderate hematite/limonite repl of biotite	
								feldspar and 2 mm chloritized biotite	Wk. yellowish white clouding of the 2-4mm larger feldspar	
100-105	5'		GB-10 100-105	<.02			(Fault)	Granite as above plus cse sand size fragments of	in the f.gr. granite. Large chips of med. gry granite	Wk. clear calcite vnlts filling upper spaces
								feldspar and qtz and abundant orange-brown clay	have wk. chloritization of biotite. Crs sand contains str	
105-165	60'		GB-10 105-110	<.02			Fgr Biotite Granite	Medium gray fine-grained granite	hem. repl. of biotite/chlorite Very weak chloritzation of biotite	Weak hematite on joints
									Very weak hematite altn.	
			GB-10 110-115	<.02				As above	Tr limonite repl of a few biotite	Weak tr hematite on joints
			GB-10 115-120	<.02					Tr yellow-white clay on biotite/chlorite	Tr specular hematite (dendritic)
			GB-10 120-125	<.02					Wk chloritization of biotite	Weak calcite veining
			GB-10 125-130	<.02				As above, possible weak fault	Fairly "fresh" granite Large chips as above, w/o cloudy white altn of large feldspars.	As above
								Abundant crs sand chips of feldspar.		
			GB-10 130-135	.02		PEfgr	Fgr Biotite Granite	As above, 110-120'		
			GB-10 135-140	.10						
			GB-10 140-145	.04					Slight increase in altn. lg 2mm feldspar are cloudy	Slightly increased fracturing . Joints & cleavage planes in feldspar coated with
			GB-10 145-150	<.02					and yellowish white Wk chloritization of biotite	limonite, rarely hematite
			GB-10 150-155	.02		PEfgr	Fgr Biotite Granite	As above	Sharply increased hematitic/ limonitic altn. 90% of chips	Mod to str limonitic fracturing
									microfractured with biotite destroyed.	Weak calcite veining.

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-10 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
			GB-10 155-160	<.02			Fgr Biotite Granite	As above	Decreased altn similar to 140-150' Wk chloritization of biotite	Wk jointing - limonite coated fractures
			GB-10 160-165	<.02			165 - Fault		Wk repl of biotite/chlor by limonite and/or lesser hematite.	Wk calcite veins - crystals form in open joints
165-200	35'	GOOD	GB-10 165-170	<.02					Large feldspar crystals are fractured but 75% are clear	
		RECOV.	GB-10 170-175	<.02					Some cloudy yellowish white altn of feldspars. Wk. limonitic staining.	
			GB-10 175-180	<.02						
		GOOD	GB-10 180-185	<.02		PEfgr	Fgr Biotite Granite	Medium gray fine grained granite	Very weak chloritization of fine grained biotite.	Minor limonite and less commonly hematite on joints.
		RECOV.	GB-10 185-190	.03				Granite must be well shattered since sample	Feldspars are occasionally cloudy.	Rock is well fractured, but limonite coats only a few of the joints.
			GB-10 190-195	.03				consists of 1/2-3/4" coarse pebbles	165-200 Black chloritic altn. noted	
								Only 1 tablespoon of sand and silt /cup of sample.		
			GB-10 195-200	<.02				(Hole is caving and packing around bit.)		
200-255	55'		GB-10 200-205	<.02		PEfgr	Fgr Biotite Granite	Medium gray fgr biotite granite	Weak chlorite & clay alteration. Rock is lighter colored than granite above.	220 clay zone and 220-225 is light tan with minor limonite st.
			GB-10 205-210	<.02						
			GB-10 210-215	<.02						
			GB-10 215-220	.03						
			GB-10 220-225	<.02						
			GB-10 225-230	<.02						
			GB-10 230-235	.04						
			GB-10 235-240	.05						
			GB-10 240-245	<.02						
			GB-10 245-250	<.02						
			GB-10 250-255	.02						
255-300	45'		GB-10 255-260	.03		PEfgr	Fgr Biotite Granite	Granite is similar to above but is darker and exhibits a variable dark grayish red hematite coloration. 30-50% of granite is fine grains of black quartz.	255- Variable increase in black chlorite and hematitic stain. Rock gets denser with less intense alteration with increasing depth.	No indicated mineralization.
			GB-10 260-265	<.02						
			GB-10 265-270	.06						
			GB-10 270-275	.03						
			GB-10 275-280	<.02						
			GB-10 280-285	<.02						
			GB-10 285-290	<.02						
			GB-10 290-295	<.02						
			GB-10 295-300	<.02						
300-360	60'		GB-10 300-305	<.02		PEfgr	Fgr Biotite Granite		Prominent hematitic stained zone 290-305 ft.	
			GB-10 305-310	<.02						
			GB-10 310-315	<.02						
			GB-10 315-320	<.02						
			GB-10 320-325	.29						
			GB-10 325-330	<.02						
			GB-10 330-335	<.02						
			GB-10 335-340	<.02						
			GB-10 340-345	<.02						
			GB-10 345-350	.02						
360 is TD			GB-10 350-355	<.02						
			GB-10 355-360	<.02						

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CORN & AHERN

HOLE NO. GB-11 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB# 49 SECTION SW SW 30 T. 28N R. 18W COLLAR COORDS. 1175'N., 350'E. of S.W. Cor. Sec. 30

ELEVATION 4560 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 12-2-83 COMPLETED 12-5-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 300'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-25	25'	GOOD	GB-11 0-5	<.02		P€fgr	Fine-grained biotite granite	light gray to tan fine-gr. biotite granite	Rock is bleached	Weak limonite stain
		RECOV.	GB-11 5-10	.05			0-25' sheared		with fspars altd to clays & biotite to light chlorite	in shear zone 0-25 ft.
			GB-11 10-15	<.02					and minor siderite.	
			GB-11 15-20	<.02						
			GB-11 20-25	<.02						
25-120	95'		GB-11 25-30	<.02		P€fgr	Fine-grained biotite granite	Med. to dark gray fine-grained equi.gr.	Dark color is caused by	25-120' No indicated mineralization.
			GB-11 30-35	<.02						
			GB-11 35-40	<.02				granite chips exhibit 40% fine gr.	black chlorite alteration	
			GB-11 40-45	<.02						
			GB-11 45-50	.04				dark colored qtz, 10% vfg biotite and some segregations of coser qtz and white fspar.	as well as dark qtz. Minor clay and siderite alteration.	
			GB-11 50-55	.02						
			GB-11 55-60	<.02						
			GB-11 60-65	<.02						
			GB-11 65-70	<.02						
			GB-11 70-75	<.02						
			GB-11 75-80	<.02						
			GB-11 80-85	<.02						
			GB-11 85-90	<.02						
			GB-11 90-95	<.02						
			GB-11 95-100	.06						
			GB-11 100-105	<.02						
			GB-11 105-110	<.02						
			GB-11 110-115	<.02						
			GB-11 115-120	<.02						
120-135	15'		GB-11 120-125	<.02		PCfgr	120-135' Prominent shear zone	Fine chips only	Clay, chlorite and siderite	120-135' Considerable limonite after vfg pyrite.
			GB-11 125-130	<.02				of bleached limonite stained	alteration.	
			GB-11 130-135	<.02				fgr. granite		
135-200	65'		GB-11 135-140	<.02		P€fgr	Fine-grained biotite granite	Chips are mixed light and dark gray and tan	Variable clay	Minor limonite after
			GB-11 140-145	<.02			variable	fine-grained granite as described above.	siderite and hematite	vfg pyrite.
			GB-11 145-150	2.31						
			GB-11 150-155	<.02			shearing from 135-240'		siderite and hematite	
			GB-11 155-160	<.02						
			GB-11 160-165	.07					localized on fracts.	
			GB-11 165-170	<.02						
			GB-11 170-175	.15						Complete oxidation.
			GB-11 175-180	<.02						
			GB-11 180-185	<.02						
			GB-11 185-190	<.02						
			GB-11 190-195	<.02						
			GB-11 195-200	<.02						

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-11 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
200-240	40'	GOOD	GB-11 200-205	<.02		PCfgr	Fine-grained biotite granite	Fine-gr. equigran. granite with 40% dark qtz and variable vfg biotite.	Variable clay	Minor limonite after.
		RECOV.	GB-11 205-210	<.02					siderite and hematite	vfg pyrite
			GB-11 210-215	<.02			200-240 Variable		siderite and hematite	calcite noted as
			GB-11 215-220	<.02			Shearing		along fracts.	a fracture coating
			GB-11 220-225	<.02					Biotite altd. to light colored chlorite	
			GB-11 225-230	<.02						
			GB-11 230-235	<.02						
			GB-11 235-240	<.02						
240-300	60'		GB-11 240-245	<.02		PCfgr	Fine-grained biotite	Med. to dark gray fine-grained equigran.	Moderate black	Minor limonite
			GB-11 245-250	<.02			granite	granite. 40% qtz; 10-15% biotite	chloritic altn.	after. siderite
			GB-11 250-255	<.02					minor siderite	
			GB-11 255-260	<.02					and hematite.	No indicated mineralization.
			GB-11 260-265	.11					Fspars are fresh with	
			GB-11 265-270	<.02					biotite converted to dark	
			GB-11 270-275	.89					chlorite.	
			GB-11 275-280	.06						
			GB-11 280-285	<.02						
			GB-11 285-290	<.02						
			GB-11 290-295	.03						
			GB-11 295-300	.06						
300 is TD										

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-12 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB#12 SECTION 30 (NW SW) T. 28N R. 18W COLLAR COORDS. 1810'N., 615'E. of S.W. Cor. Sec. 30

ELEVATION 4550 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 12-5-83 COMPLETED 12-6-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 230'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-55	55'	GOOD RECOV.	GB-12 0-5	<.02		PEfgr	Fine-grained biotite granite	Fine-gr, med to dark gray equigranular granite with 40% dark colored qtz, 50% fspars & 10% biotite	Weak clay altn. dark color indicates vgf black chlorite altn.	No indicated mineralization.
			GB-12 5-10	.02						
			GB-12 10-15	<.02						
			GB-12 15-20	<.02						
			GB-12 20-25	<.02						
			GB-12 25-30	<.02						
			GB-12 30-35	<.02						
			GB-12 35-40	<.02						
			GB-12 40-45	<.02						
			GB-12 45-50	<.02						
			GB-12 50-55	.05						
55-95	40'		GB-12 55-60	.10		PEfgr	55-95 Shear zone Fine-grained biotite granite	Light gray, tan & pink colored altered fine-grained granite sheared with most of sample as fines.	Fspars altered to clays, biotite to lt. colored chlorite. Siderite is both disseminated and on fractures.	55-90 Shear zone exhibits hematite and limonite stain with some limonite after vfg pyrite. 70-75 purple fluorite noted in cuttings. Fluroite occurs as a .10 to .20 inch veinlet; qtz limonite or siderite are not associated with the fluorite.
			GB-12 60-65	.02						
			GB-12 65-70	0.11						
			GB-12 70-75	<.02						
			GB-12 75-80	.03						
			GB-12 80-85	<.02						
			GB-12 85-90	<.02						
			GB-12 90-95	.06						
95-115	20'		GB-12 95-100	.08		PEfgr	Fine-grained biotite granite	Med. to dk. gray fine gr. granite that is not sheared	95-115 Weak alteration	
			GB-12 100-105	.22						
			GB-12 105-110	.04						
			GB-12 110-115	.07						
115-140	25'		GB-12 115-120	.02		PEfgr	115-140 Sheared biotite granite	Light gray and tan sheared fine-grained granite as above.	Clay, chlorite and siderite alteration of fspar and biotite	115-125 Prominent limonite after vfg pyrite in interval of more intense shearing.

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CORN & AHERN

HOLE NO. GB-12 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
140-165	25'	GOOD	GB-12 140-145	<.02		PEfgr	Fine-grained biotite	Variably sheared fine-grained granite as above.	Plag. and most of kspar alt. to clay	Complete oxidation.
		RECOV.	GB-12 145-150	.11			granite	Chips are a mixture of light and dark gray colored	Biotite to sericite and lt. colored chlorite.	Limonite after vfg pyrite
			GB-12 150-155	<.02				altered granite	Alteration most intense near fracture surfaces.	Most of limonite is on fractures. Some reflects a minor amount of dissem pyrite.
			GB-12 155-160	.07						
			GB-12 160-165	.07						
165-170	5'		GB-12 160-165	.07			165-170 ~~Sheared Zone~~	Dominantly yellow limonite stained clay	Clay alteration	165-170 Limonite stain after. vfg pyrite
										Purple fluorite noted in cuttings.
170-230	60'		GB-12 170-175	<.02		PEfgr	Variably sheared fine-grained biotite granite	Mixed light to med. gray altered fine-grained granite	Feldspars are altered to clays and biotite is altered	Minor limonite after vfg pyrite. Siderite noted on fractures.
			GB-12 175-180	.15				40% dark colored qtz., 50% light altd. fspar. and 10% altd. biotite	to sericite or light colored chlorite.	
			GB-12 180-185	.05						
			GB-12 185-190	.56						
			GB-12 190-195	.22						
			GB-12 195-200	<.02						
			GB-12 200-205	<.02						
			GB-12 205-210	.10					Chips indicate that clay	
			GB-12 210-215	.25					alteration is more intense	210-230 Fracture surfaces are coated
			GB-12 215-220	.12					than in the interval above	with prominent bright red hematite.
			GB-12 220-225	.05					100 feet.	
			GB-12 225-230	.18						
230 is TD.										

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-13 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB#48 SECTION 30 (NW SW) T. 28N R. 18W COLLAR COORDS. 2410'N., 800'E. of S.W. Cor. Sec. 30

ELEVATION 4480 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 12-7-83 COMPLETED 12-8-83 DRILLER Connors LOGGED BY Russell M. Corn

TOTAL DEPTH 160'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-65	65'	GOOD	GB-13 0-5	<.02		PEfgr	Fine-grained biotite granite	Med. to dark gray equigr. fine-gr. granite with 40% drk. qtz grains, 50% fspar, and approx. 10% altd. biotite	Relatively weak alteration. Dark color is caused by vfg black chlorite.	Variable, relatively weak siderite and hematite on fractures.
			GB-13 5-10	.04						
		RECOV.	GB-13 10-15	.02						
			GB-13 15-20	<.02						
			GB-13 20-25	<.02						
			GB-13 25-30	.02						
			GB-13 30-35	.04						
			GB-13 35-40	<.02						
			GB-13 40-45	<.02						
			GB-13 45-50	.02						
			GB-13 50-55	<.02						
			GB-13 55-60	<.02						
			GB-13 60-65	<.02						
65-105	40'		GB-13 65-70	<.02		PEfgr	65-105 "Crushed Zone"	Bleached light gray to lt. tan fine grained granite that is intensely sheared and thoroughly altered to clays	All feldspars are altered to white clays. Siderite replaces clay and former biotite.	Disseminated vfg limonite after pyrite. Disseminated siderite. Limonite noted on fracture surfaces
			GB-13 70-75	.03			Intense shearing			
			GB-13 75-80	<.02						
			GB-13 80-85	<.02						
			GB-13 85-90	.10						
			GB-13 90-95	.04						
			GB-13 95-100	<.02						
			GB-13 100-105	.02						
105-160	55'		GB-13 105-110	.03		PEfgr	Variably sheared fine-grained granite	Grayish pink colored fine-grained granite as above. Alteration is variable and indicates variable shearing. Color darkens to med. gray toward bottom of hole.	Feldspars are altered to white clays. Biotite is altered to sericite or lt green chlorite. Chips show hematite stain on fractures. Alteration intensity decreases with increasing depth.	Minor limonite after. vfg dissem. pyrite. Siderite occurs as thin seams and veinlets. Minor fine-grained dissem. hematite.
			GB-13 110-115	.99						
			GB-13 115-120	.12						
			GB-13 120-125	<.02						
			GB-13 125-130	<.02						
			GB-13 130-135	.08						
			GB-13 135-140	<.02						
			GB-13 140-145	<.02						
			GB-13 145-150	.04						
			GB-13 150-155	.03						
			GB-13 155-160	<.02						
160 is TD										

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB-14 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB#53 SECTION 25 (NW SE) T. 28N R. 19W COLLAR COORDS. 2430'N., 1810'W. of S.E. Cor. Sec. 25

ELEVATION 4700 HOLE SIZE 5 1/8" Reverse Circ. HOLE ANGLE Vertical

SPUDDED 12-8-83 COMPLETED 12-19-83 DRILLER Cornors LOGGED BY

TOTAL DEPTH 320'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-10	10'	GOOD	GB-14 0-5 GB-14 5-10	<.02 <.02		PEfgr	Fine-grained biotite granite	Light brown weathered fine-grained granite	Clays & chlorite may be weathering	
		RECOV.								
10-40	30'		GB-14 10-15 GB-14 15-20	<.02 .07		PEfgr	Fine-grained biotite granite	Dark gray fine-gr. granite 40% dark quartz. Some segregations of cse white feldspar	Black chloritic alt. of biotite	Minor siderite on fractures.
			GB-14 20-25 GB-14 25-30	<.02 .03						
			GB-14 30-35 GB-14 35-40	<.02 <.02						
40-60	20'		GB-14 40-45 GB-14 45-50	<.02 <.02		PEbgr	Cse grained biotite granite	Light-gray, med to cse grained biotite granite. Some shearing suggested	Weak clay altn. of fspar. biotite altered to chlorite and siderite.	
			GB-14 50-55 GB-14 55-60	.05 <.02						
60-160	100'		GB-14 60-65 GB-14 65-70	<.02 <.02		PEfgr	Fine-grained biotite granite with variable shearing indicated.	Med. gray to light brown fine-grained granite. 40-50% qtz. and fspar with 10% biotite	Feldspars altd. to clay near fractures	
			GB-14 70-75 GB-14 75-80	<.02 <.02						85-115 Minor limonite after vgf pyrite. Some dissemination siderite.
			GB-14 80-85 GB-14 85-90	<.02 <.02						Siderite is mostly on fractures.
			GB-14 90-95 GB-14 95-100	<.02 <.02						
			GB-14 100-105 GB-14 105-110	<.02 <.02						
			GB-14 110-115 GB-14 115-120	.03 <.02						
			GB-14 120-125 GB-14 125-130	<.02 .05						
			GB-14 130-135 GB-14 135-140	<.02 <.02						
			GB-14 140-145 GB-14 145-150	.03 <.02						
			GB-14 150-155 GB-14 155-160	.11 <.02						
160-250	90'		GB-14 160-165 GB-14 165-170	<.02 <.02		PEfgr	160-250 "Crushed Zone"	Prominent shearing	160-180 Intense clay & chlorite alteration.	160-180 Prominent limonite stain after siderite and vfg pyrite. Siderite is both dissem. and on fracts. throughout sheared interval.
			GB-14 170-175 GB-14 175-180	<.02 <.02			Fine-grained granite			
			GB-14 180-185 GB-14 185-190	<.02 <.02		PEbgr	180-200 Cse-grained biotite granite	Dark gray & brown cse gr. granite	180-250 Plag. altd. to clay. Kspar is unaltered.	
			GB-14 190-195 GB-14 195-200	<.02 <.02				cse Kspar and biotite		
			GB-14 200-205 GB-14 205-210	<.02 <.02		Tl	Lamprophyre	Lamprophyre and granite frags		
			GB-14 210-215 GB-14 215-220	<.02 .06		PEbgr	Cse-grained biotite granite and gneiss	210-250 Mixed fragments of cse-gr. biotite granite & gneiss	Partial altn. of biotite to chlorite.	

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CORN & AHERN

HOLE NO. GB-14 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
			GB-14 220-225	<.02						
			GB-14 225-230	<.02						
			GB-14 230-235	.03			230-250 More intense shearing		230-250 Prominent limonite stain.	
			GB-14 235-240	<.02						
			GB-14 240-245	<.02						
			GB-14 245-250	<.02						
250-265	15'	GOOD	GB-14 250-255	.06		Tl & PEbgr	Lamprophyre and cse-gr. biotite granite	Mixed frags. of dark gray-green fgr. lamprophyre with cse-gr. biotite granite	Granite is only weakly altered.	
		RECOV.	GB-14 255-260	<.02					Lamprophyre is altered to clay, chlorite and siderite	
			GB-14 260-265	<.02						
265-295	30'		GB-14 265-270	<.02		PEgn	Gneiss	Med. gray to pinkish tan chips of coarse fspar and qtz.	Rock is bleached with substantial alt. of fspars to clay	Siderite is relatively abundant and occurs both disseminated and as thin seams and veinlets. Minor limonite after vfg pyrite.
			GB-14 270-275	<.02						
			GB-14 275-280	.03						
			GB-14 280-285	.05						
			GB-14 285-290	<.02						
			GB-14 290-295	<.02						
295-320	25'		GB-14 295-300	<.02		PEbgr	Cse-grained biotite granite	Med to dark gray coarse-grained granite. Chips show .20 inch & larger grains of qtz & fspar.	Little or no alteration is evident. Darker color may be caused by black chlorite.	No indicated mineralization.
			GB-14 300-305	<.02						
			GB-14 305-310	<.02						
			GB-14 310-315	<.02						
			GB-14 315-320	<.02						
320 is TD										

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB #15 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM GB #53 SECTION 25 (NW SE) T. 28N R. 19W COLLAR COORDS. 2010'N., 2010'W. of S.E. Cor. Sec. 25

ELEVATION 4780 HOLE SIZE 5 1/8" Reverse Circulation HOLE ANGLE 90°

SPUDDED 12/14/83 COMPLETED 12/15/83 DRILLER Connors LOGGED BY

TOTAL DEPTH 360'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-40'	40'		GB-15 0-5	<.02		PEbgr	0-130' Cse grained gneissic Biotite granite	Cse gr. Biotite granite, 10-15% biotite-Feld and qtz ½" or larger xls. Mottled grn-gr color w/ siderite and hematite stain.	Weak hematite and siderite stain on fracts. Biotite is chloritized and some dk. chloritiz. of feldspar.	No mineralization noted.
			" 5-10	<.02						
			" 10-15	<.02						
			" 15-20	<.02						
			" 20-25	<.02						
			" 25-30	<.02						
			" 30-35	<.02						
			" 35-40	<.02						
40-60'	20'		GB-15 40-45	<.02					40-60' some yellowish limonitic clay noted	
			" 45-50	<.02						
			" 50-55	.02						
			" 55-60	<.02						
60-130'	70'		GB-15 60-65	<.02					60-130' variable chlorite altn. Wk hematite and siderite	
			" 65-70	<.02						
			" 70-75	<.02						
			" 75-80	<.02						
			" 80-85	<.02					K Feldspars are generally fresh and unalt'd.	
			" 85-90	<.02						
			" 90-95	<.02						
			" 95-100	<.02						
			" 100-105	<.02						
			" 105-110	<.02						
			" 110-115	<.02						
			" 115-120	.02						
			" 120-125	<.02						
			"							
130-150'	20'		GB-15 125-130	<.02						
			GB-15 130-135	.03		PEfgr	130' - Fine grained qtz rich bio granite	Grey to dk grayish red fine-grained granite, qtz and alt. biot and fspr. Chlorite and siderite have repl. any biotite.	130'- increased siderite and hematite alt. biotite & fspr alt to clay and siderite	Siderite and earthy hematite on fractures and disseminated through granite.
			" 135-140	<.02						
—			" 140-145	<.02						
			" 145-150	<.02						
150'							Fault.			
150-235'	85'		GB-14 150-155	<.02		T1	150-160'. As above w/ frags lamp.			
			" 155-160	<.02						
			" 160-165	<.02		PEfgr	160'. Fine gr. qtz rich biotite granite	With increasing depth, the granite darkens in color.	Less intense siderite and clay alt below 200'. Bio is alt. to dk chlorite. Rock darkens from chloritic alt'n.	
			" 165-170	<.02						
			" 170-175	<.02						
			" 175-180	<.02						
			" 180-185	<.02						
			" 185-190	<.02						
			" 190-195	<.02						
			" 195-200	<.02						
			" 200-205	<.02						
			" 205-210	<.02						
			" 210-215	<.02						
			" 215-220	<.02						
			" 220-225	<.02						
			" 225-230	<.02						
			" 230-235	<.02						

(1) ASSAYS by U.S BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB #15 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
235			GB-15 235	<.02			Fault.			
235-240'	5		GB-15 235-240	<.02		PEfgr	Fine gr. qtz-biotite granite. 235-300'	Mix frags of med gry to tan color. Fine gr qtz & former	Abdt. limonite after siderite and subst siderite. All fract	Limonite after siderite and some milky qtz frags. Bright red earthy
						& PEgn	crushed zone. Mixed fgr bio gran &	fspr. alt to clay, sid and chlorite.	show sid. and hem. stain. Biotite conv. to chlorite.	hematite noted on some fract. Some limonite after pyrite noted on fracts.
240-280'	40'		GB-15 240-245	<.02			Mixed f. gr. bio gran & granite gneiss			
			" 245-250	<.02						
			" 250-255	<.02						
			" 255-260	<.02						
			" 260-265	<.02			" "			
			" 265-270	.03						
			" 270-275	<.02			" "			
			" 275-280	<.02						
280-295'	15'		GB-15 280-285	<.02			280-295' Fault Zone Soft.	280-295'. Rock is completely tan in color from siderite &	280-295'. Clay, chlor & sid. altn. All fracts stained w/	280-295'. Abdt. siderite. Limonite after siderite & some earthy
			" 285-290	<.02				limonite. Qtz is only non-replaced mineral.	limonite and minor hematite.	hematite.
			" 290-295	<.02						
295-325'	30'		GB-15 295-300	<.02			295-325' Granite Gneiss.	295'. Frags are mottled gry-grn, tan and qtz. Large frags	295'. Clay, shlor, wk sid & hematite on fracts.	295-320'. Siderite and hematite on fracts.
			" 300-305	.04				show foliated cse qtz & fspr.	310'. Color darkens w/ incr. black chlorite.	
			" 305-310	<.02						
			" 310-315	<.02						
			" 315-320	<.02					320'. Increased siderite alt.	
			" 320-325	<.02						
325-330'	5'		GB-15 325-330	<.02		T1	325-330'. Granite Gneiss & lamprophyre.	325-330'. Granite gneiss as above mixed w/ frags of grn-brn. lamprophyre	Clay, chlorite, siderite & wk hematite alt.	
330-335'	5'		" 330-335	<.02		T1	330-335'. Lamprophyre	330-335'. Dominantly green-brown lamprophyre	Clay, chlorite alt. in lamprophyre	
335-340'	5'		" 335-340	<.02		PEgn	335-360' Granite Gneiss			
340-360'	20'		GB-15 340-345	<.02				335'. Cse Feldspar & quartz - minor biotite and chlorite.	Wkly alt'd. Chlorite and minor siderite and hematite.	335-260'. No indicated mineralization
			" 345-350	<.02				Rock is dense and hard.	Fsprs are pale bl-grn. color. Chloritic altn.	
			" 350-355	<.02						
			" 355-360	.04						
			360 is T.D.							

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB- #16 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

CLAIM 3B #53 SECTION 25 (NWSE) T. 28N R. 19W COLLAR COORDS. 1680'N., 2105'W. of S.E. Cor. Sec. 25

ELEVATION 4780 HOLE SIZE 5 1/8" Reverse Circulation HOLE ANGLE Vertical

SPUDDED 12/16/83 COMPLETED 12/18/83 DRILLER Connors LOGGED BY R. Corn

TOTAL DEPTH 360'

DRILL HOLE DESCRIPTIVE LOG

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
0-10	10'	GOOD RECOV.	GB-16 0-5	<.02		P€gngr	Granite Gneiss	Mottled green-gray and tan fragments of foliated fspr and white qtz.	Clay, chlorite & siderite altn Feldspars are altd to clay & dk grn chlorite	Abdt siderite, but no other indication of mineralization
			" 5-10	.07						
10-50	40'		GB-16 10-15	.27			10-50' sheared Granite Gneiss	10-50' few cse frags sample almost all fines	Frags are cut by num. thin seams of siderite.	
			" 15-20	.05						
			" 20-25	.12					10-50' increased clay & sider- ite altn. Approx 30% of chips show feldsp completely repl. by siderite.	Siderite is abdt, minor hematite noted
			" 25-30	.17						
			" 30-35	.06						
			" 35-40	.05						
			" 40-45	.04						
			" 45-50	.05						
50-100	50'		GB-16 50-55	<.02			Granite Gneiss	Similar to gneiss above but with less intense shearing	Feldspars show pale green sericite (?) chlorite altn. Yellowish clay (gouge?) is fairly common.	Thin seams of siderite cut quartz and feldspar.
			" 55-60	.37						
			" 60-65	.33						
			" 65-70	.90						
			" 70-75	.33						
			" 75-80	.14						
			" 80-85	.06						
			" 85-90	.06						
			" 90-95	<.02				" "	Clay, chlorite, siderite altn	
			" 95-100	<.02						
100-115	15'		GB-16 100-105	<.02			Granite Gneiss	Mottled dk gry, grn and reddish brn and tan chips of chloritized feldsp & qtz. 110-120' 30% chips of tan sideritized fspr. 5% white clay. 115' tan to lt-brn fine gr. foliated qtz-fspr. Chips are dominantly former feldsp w/fgr qtz.	" "	Yellow and yellow-tan siderite is very common
			" 105-110	<.02						
			" 110-115	<.02						
115-160	45'		GB-16 115-120	<.02			Quartz-Feldspar Gneiss or F gr. Granite Gneiss		115' abundant siderite less intense chlorite.	115' MnOx noted on fract. Abund sider- ite. Fgr. white mineral-fluorite or barite noted in panned conc.
			" 120-125	<.02						
			" 125-240	<.02						
			" 130-135	<.02						
			" 135-140	<.02						
			" 140-145	<.02						
			" 145-150	<.02						
			" 150-155	<.02						
			" 155-160	<.02						
160-200	40'		GB-16 160-165	<.02		P€gngr	Granite Gneiss	Tan to lt. brn altd fspr & white qtz. Chips show gneissic foliation.	Clay, chlorite & siderite abundant siderite	Abdt siderite seams and vnlts.
			" 165-170	<.02						
			" 170-175	<.02						
			" 175-180	.02						
			" 180-185	<.02						
			" 185-190	.04						
			" 190-195	<.02						
			" 195-200	<.02						
200-230	30'		GB-16 200-205	.03			Granite Gneiss	Lt red-brn sideritized fspr and white to clear qtz.	Fsprs are alt. to siderite, clay and minor chlorite.	Abdt thin seams and vnlts of siderite
			" 205-210	<.02						
			" 210-215	<.02						
			" 215-220	<.02						
			" 220-225	<.02						
			" 225-230	<.02						

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

HOLE NO. GB- #16 PROSPECT Gold Basin COUNTY Mohave STATE Arizona

HOLE DEPTH	INTERVAL	RECOVERY	SAMPLE NUMBER	PPM (1) Au	PPM (1) Hg		ROCK TYPE	ROCK DESCRIPTION	ALTERATION	MINERALIZATION
230-260	30'	GOOD RECOV	GB-16 230-235	<.02		P€gngr	Granite Gneiss	230'-Rd to red brown chips of altd feldspar & white qtz w/ prominent hematite & siderite stain on fracts.	230'- Prominent increase in hematite stain & coloration. Some hematitic limonite aft. pyrite. Siderite, clay & hematite are dominant alt mins.	230'- earthy hematite & MnOx noted on fractures.
			" 235-240	<.02						
			" 240-245	.04			More shearing below 240'			240'-several small frags of bracciated qtz w/ hematitic limonite noted.
			" 245-250	<.02						
			" 250-255	<.02			250-260' Some Fault Gouge.			250-260'- some hematitic limonite stained clay.
			" 255-260	.03						
260-300	40'		GB-16 260-265	.07		P€gn	Gneiss	260-300'-greenish gray chlor. gneiss w/ partial hematite stain.	260'- sericite & chlorite altn Wk. siderite	Minor siderite - little hematite
			" 265-270	<.02						
			" 270-275	.04						
			" 275-280	<.02						
			280-285	.05						290'- increased siderite & hematite stain.
			" 285-290	.03						
			" 290-295	<.02				295-300'-20% of chips are white clay. Fault Gouge.		
			" 295-300	<.02						
300							Fault			
300-310	10'		GB-16 300-305	<.02			Gneiss	300-310'- Siderite & hematite stained. Dense gneiss. 310'- 350'-larger chips exhibit black chloritic color on fresh fractures.	300-330'-siderite & hematite stain on fractures. Black chloritic alt of gneiss.	
			" 305-310	<.02						
310-330	20'		GB-16 310-315	<.02						
			" 315-320	<.02						
			" 320-335	<.02						
			" 325-330	<.02						
330							Fault	330'-tan or light brown leucocratic rock composed of qtz and K feldspars, somewhat foliated	Chlorite and siderite. Alteration is generally weak.	
330-360	30'		GB-16 330-335	<.02		Klgr	Leucogranite			No indicated mineralization in Leucogranite
			" 335-340	<.02						
			" 340-345	<.02			"			
			" 345-350	<.02						
			" 350-355	.03						
			" 355-360	<.02						
			360 is T.D.							

(1) ASSAYS by U.S. BORAX RESEARCH CORPORATION, ANAHEIM, CA.

CORN & AHERN

W.H. CRUTCHFIELD,JR.
Mining Engineer

TABLE 1

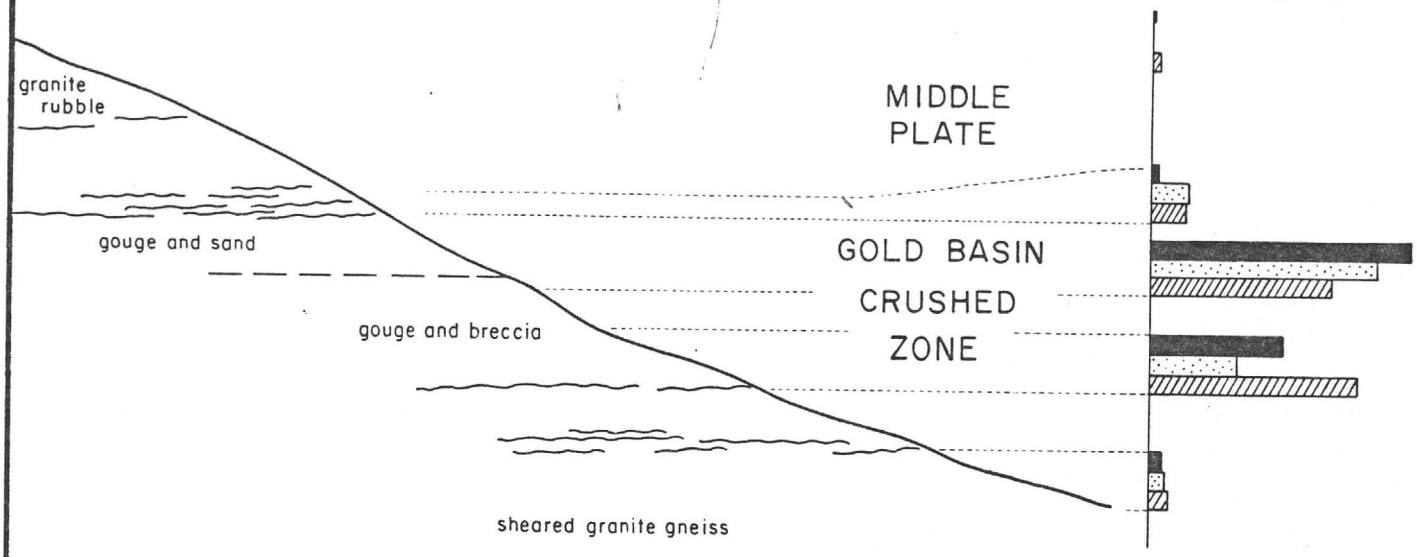
Quaternary	Alluvium
Pliocene (?)	Basalt and conglomerate
Listric faulting----------	
Late Miocene (?)	Sandstone
	Rhyolitic tuff
	Fanglomerate
Gold Mineralization	
Listric faulting----------	GOLD BASIN CRUSHED ZONE----------
Miocene (USGS dates on similar Middle Tertiary volcanics and intrusives are 10-20 my)	Quartz latite welded tuff
	Andesite
	Lamprophyre
	Porphyritic granite
Cretaceous	Granite, alaskite
Precambrian	Granite, gneissic granite and granodiorite, granite gneiss, amphibolite, gneiss.

Table 2

Generalized Sequence of Rock Units at Gold Basin

Lithotectonic Unit	Structural Features	Rock Units Affected
Upper Plate	structurally rotated cohesive fault blocks and slivers.	Fanglomerate Ryolitic tuff Sandstone Andesite Porphyritic biotite granite Layered gneiss
----------Sub-horizontal zone of Shearing----------		
Middle Plate	thoroughly shattered and sheared rocks.	Lamprophyre White Hills granite Fine-grained quartz-biotite granite Porphyritic biotite granite Granite gneiss Layered gneiss Gneissic granodiorite Gneissic granite
Crushed Zone	crushed rock material and gouge	
----------Major Sub-horizontal Zone of Shearing and Coalesced Faults----------		
Lower Plate	competent unsheared rocks.	Lamprophyre and Latite porphyry White Hills granite Alaskite Leucogranite Porphyritic biotite granite Layered gneiss Gneissic granite

W.H. CRUTCHFIELD, JR.
Mining Engineer



EXPLANATION

BAR GRAPH OF RELATIVE ASSAYS

VALUES ARE AN AVERAGE OF 2 or 3 SAMPLES TAKEN AT SIMILAR STRATIFORM POSITIONS

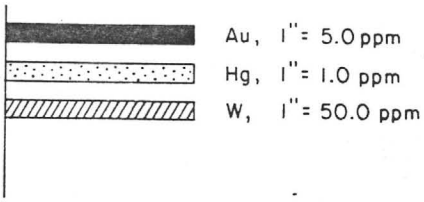


FIGURE 2

DIAGRAMMATIC SECTION
ILLUSTRATING THE DISTRIBUTION OF GOLD
IN THE GOLD BASIN CRUSHED ZONE
MOHAVE COUNTY, ARIZONA

DIAGRAM IS BASED ON GENERALIZED GEOLOGIC AND SAMPLE DATA FROM THE NE ¼ OF SECTION 25, T. 28 N., R. 19 W.

SCALE: 1" = ~50'

W.H. CRUTCHFIELD,JR.
Mining Engineer

APPENDIX A

ROCK UNITS
GOLD BASIN DISTRICT
MOHAVE COUNTY, ARIZONA

Quaternary	Alluvium (Qal)	
Tertiary	Fanglomerate and conglomerate (Tfg)	Unsorted bouldery fanglomerate made up dominantly of cobbles and boulders of gneiss and granite set in a coarse sandy matrix. The unit includes a similar conglomerate that was derived from eroded and disintegrated fanglomerate.
	Rhyolitic tuff (Tr)	White, unwelded, fine-to-medium-grained rhyolitic ash flow tuff intimately associated with the fanglomerate.
	Andesite (Ta)	Medium-grained, dark grey hornblende andesite.
	Sandstone (Ts)	Fine-grained, light grey bedded arkosic sandstones.
	Lamprophyre (Tl)	Fine-to medium-grained, dark brown or greenish brown, intrusive dikes and sills characterized by phenocrysts and fragments of hornblende and plagioclase in a fine-grained matrix with a roughly equivalent content of amphibole and plagioclase. The rock is commonly fragmental or brecciated, exhibiting outlines of milled fragments or angular fragments of amphibole, and is generally altered to chlorite and siderite.
	Latite porphyry (Tl)	Light gray intrusive porphyry exhibiting small phenocrysts of feldspar (20%) in a dense gray aphanitic groundmass.
	White Hills granite (Twgr)	Light-gray to white coarse-grained leucocratic biotite granite (5% biotite) characterized by prominent one to two inch long feldspar crystals. This granite is <u>not</u> foliated, cut by pegmatites, or lamprophyre and is common south and west of the Cyclopic Mine.

Cretaceous	Leucogranite (Kg)	Medium to coarse-grained, light gray or white, biotite and biotite-muscovite granite that contains numerous pegmatite and aplite dikes over a large area adjacent to the low-angle shear zone at Gold Basin. The granite is altered to an alaskite (Kagr) which exhibits numerous quartz veinlets and muscovite as the only mica.
Precambrian	Quartz-Biotite granite (P€-fgr)	Fine-grained, dark gray-green, quartz-rich holocrystalline biotite granite. Quartz (30%) and biotite (10%) are prominent constituents.
	Biotite granite (P€-bgr)	Coarse-grained, equigranular biotite granite containing 10 to 15% biotite. The granite has been weakly metamorphosed and varies from non-foliated to severely foliated.
	Gneissic granodiorite (P€-gd)	Medium to coarse-grained, dark-colored gneissic granodiorite with 30% or more former ferro-magnesian minerals.
	Gneiss (P€-gn)	Layered gneissic metasedimentary and meta-volcanic rocks that exhibit epidote-amphibolite to amphibolite rank metamorphism. Included in the mapped unit are fine-grained quartz-biotite-feldspar gneiss, coarse-grained garnet-feldspar-amphibole gneiss and medium to coarse-grained granitic gneiss.
	Gneissic biotite granite (P€-gngr)	Coarse-grained, gneissic, intensely foliated tan to pink granite characterized by prominent K-feldspar, biotite and quartz.

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Mining Engineer

APPENDIX B.

SCREEN TEST
GOLD BASIN PROJECT
MOHAVE COUNTY, ARIZONA

A bulk sample weighing over twenty-five pounds was collected from an exposure of the "Crushed Zone" prospect pit in the NE NW of Section 25, T. 28 N., R. 19 W. Several previous samples of the crush and gouge zone from this prospect ran 3.5 ppm to 7 ppm gold.

The bulk sample was crushed and ground in a pulping mill and screened into three size fractions, coarse (+20 mesh), middle (<20:+60 mesh) and fine (<60 mesh). Assay results for gold, silver and several pathfinder elements on these fractions are shown on the following table. Detailed examinations of each size fraction did not disclose any gold particles, but gold was observed during microscopic examination of the panned heavies from the fine fraction. The gold observed consisted of a delicate crystalline particle in a soft white clay matrix. The panned heavy concentrate from 6 pounds of fines consisted of a few grams of hematite and goethite after fine-grained pyrite, too little to assay.

The analytical data show that gold and silver are slightly concentrated in the more siliceous coarse (+20 mesh) screen fraction with 60-percent of the total gold in this fraction. The data indicates that gold permeates the gouge and crushed material, probably occurring as free gold and/or auriferous pyrite and the mineralization has resulted from pervasive soaking of the crushed zone by epigenetic hydrothermal fluids.

Screen Test, Bulk Sample From Crushed Zone*

Sample Number	Screen Mesh	% Fraction	% Total Au in Fraction	Au ppm	Ag ppm	W ppm	As ppm	Sb ppm	Hg ppm
2799	-	-		2.13	1.1	79	20	2	2.03
2799A	+20	49.7	61%	3.02	3.5	43	18	2	1.66
2799G	<20 +60	32.4	26%	1.95	1.4	54	23	2	1.04
2799C	<60	17.9	13%	1.78	0.7	61	23	2	1.65

*Testing results from USBRC, Anaheim, California

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Mining Engineer

GEOLOGIC MAPPING OF THE NORTH SIDE OF THE DOONERAK FENSTER, CENTRAL BROOKS RANGE, ALASKA | № 44295

MULL, Charles G. (Gil), Alaska Division of Geological Surveys, Pouch 7-028, Anchorage, Alaska, 99510; and ADAMS, Karen, Dept. of Geology, Univ. of Alaska, Fairbanks, Alaska 99701

Mapping of the north flank of the Doonerak anticline has traced the Amawk thrust, the sole fault of the Endicott Mountains allochthon, for over 20 km east from the Mount Doonerak area to Amawk Creek and the upper Hammond River. Reconnaissance traverses have been made for an additional 15 km eastward to the east plunge of the anticline. The mapping concentrates on the structural style of the area and on the autochthonous rocks of the Triassic to Permian Sadlerochit Group and the Carboniferous Lisburne Group, Kayak Shale and Kekiktuk Conglomerate.

The Amawk thrust is mapped between outcrops of lower Paleozoic metasedimentary rocks and the underlying Lisburne limestone and slivers of Sadlerochit clastic rocks. In the Amawk Creek area the fault and bounding rock units dip approximately 20° north. Well developed slaty cleavage in the Sadlerochit is compatible with the interpretation of northward thrust transport of the overlying allochthon. At Bombardment Creek northwest of Mount Doonerak, the autochthonous rocks are in normal stratigraphic sequence, and a regional angular unconformity that is well exposed in at least one locality separates the Kekiktuk from the underlying lower Paleozoic argillite and metavolcanic rocks. However, to the east multiple slivers of Kayak, Lisburne, and Sadlerochit are mapped. Structural complexity in the autochthonous complex increases toward the eastern end of the fenster; the regional significance of this change is unknown.

Between Mount Doonerak and Amawk Mountain, two en echelon E-W-trending reverse faults uplift the core of the fenster. These south dipping faults have maximum throw of over 500 m and postdate the Early Cretaceous emplacement of the Endicott Mountains allochthon.

GEOLOGY OF THE Cu-Fe-Au SKARNS OF KASAAN PENINSULA SOUTHEAST ALASKA | № 45299

MYERS, Greg L., Dept. of Geology, Univ. of Ak. Fai.,Ak. 99701

Due to their stratiform morphologies and spatial associations with volcanic systems the Cu, Fe, Au deposits of Kasaan Peninsula, S.E. Alaska have recently been thought to represent altered volcanogenic massive sulfide deposits. Detailed and regional mapping and analytical work, however, indicates these deposits are diorite associated Cu-Fe-Au skarns

Host rocks for the skarns belong to the mid-Paleozoic Descon Formation, a sequence more than 1000 feet thick, consisting of intercalated marble and metavolcanics. Skarns are associated with irregular dikes and sills of diorite and gabbro (also of mid-Paleozoic age) near contacts with the marble and metavolcanics. The majority of skarn is located along contacts of marble and metavolcanics. The bulk of ore is present as late bodies replacing marble adjacent to skarn. The mines south of Kasaan consist of metavolcanics. marble, diorite, dacite, and hornblende-magnetite(mt)-chalcopyrite(cpy)-pyrite skarn with low Ag and Au. The mines north of Kasaan consist of metavolcanisc, diorite, quartz diorite, and zoned skarns from epidote(Fex=.15-.2)-quartz endoskarn, to pyroxene(Hd20)-garnet(Ad70-90) skarn, to epidote(Fex=.2-.3)-cpy-mt-calcite skarn, to marble, suggesting a progression away from volcanic/intrusive contacts. The large variety of skarn types and mineral compositions observed is thought to be due to the different hosts replaced and the spatial/temporal zoning. Au, Ag, Co, and Ni are highest in the zones with Cu/Fe of at least 5/1 and high Fe epidote (Fex=.2-.3). These skarns posses relatively low Ag/Au ratios (10/1 to 20/1), Zn/Cu ratios (1/100) and a mineralogic zonation of calc-silicates and ore, compared to nearby volcanogenic massive sulfides with Ag/Au ratios near 50/1, Zn/Cu ratios of at least 5/1 and without a sense of mineralogic zonation. Based on the metal ratios and the calc-silicate zonation, these deposits are not derived from volcanogenic massive sulfides

RELATIONSHIP OF MINERALIZATION TO DETACHMENT FAULTING AT THE CYCLOPIC MINE, MOHAVE COUNTY, NORTHWESTERN ARIZONA | № 35089

MYERS, I. A., and SMITH, E. I., Department of Geoscience, University of Nevada, Las Vegas, NV 89154; WYMAN, R. V., Department of Engineering, University of Nevada, Las Vegas, NV 89154

Gold mineralization at the Cyclopic Mine is localized by a major west dipping detachment zone of Tertiary age. This zone is characterized by numerous coplanar northwest striking, gently undulating low-angle normal faults. At the Cyclopic mine the fault zone separates a rapakivi-type granite (1660 m.y. old) in the upper plate from a gneissic terrane (1750 m.y. old) in the lower plate, and dips 16 degrees southwest.

Two periods of mineralization are recorded at the Cyclopic Mine. The first stage of mineralization is characterized by numerous high-angle, northeast trending gold-bearing quartz veins that were emplaced along zones of structural weakness in the Precambrian basement contemporaneously with the intrusion of a nearby peraluminous (two mica) granite of Cretaceous age (72 m.y. old). During Tertiary detachment faulting, some of these veins were brecciated, transported in the fault zone, and are now exposed as irregular blocks of milky quartz in a dark gray matrix. The second episode of gold mineralization is Tertiary in age and is characterized by intense ferric and argillic alteration that is concentrated along the detachment zone. The intensity of mineralization quickly diminishes away from the fault zone in both the upper and lower plates. Ferric alteration is localized in the hanging walls of both low-angle, and high-angle structures. Argillic alteration, however, is more pervasive.

In summary we propose the following scenario for mineralization at the Cyclopic Mine. 1) Emplacement of gold-quartz veins (Cretaceous), 2) Incorporation of gold-bearing quartz veins in the detachment zone during faulting, and 3) gold mineralization associated with argillic and ferric alteration of the detachment zone.

PRE-0.89 MY GLACIATION IN THE WEST CENTRAL PUGET LOWLAND, WASHINGTON | № 38284

NAESER, Nancy, U.S. Geological Survey, Denver Colorado; WESTGATE, John, University of Toronto, Westhill, Ontario; EASTERBROOK, Don J., Western Washington University, Bellingham, Wash.; and CARSON, Robert, Whitman College, Walla Walla, Wash.

Glass from rhyolitic tephra within a thick, laminated silt sequence at Frigid Creek near Hood Canal yielded a fission-track age of 0.89 ± 0.29 my. The tephra consists of two eruptive phases; a lower 6 cm ash, and an upper 4 cm ash and pumice. The chemical composition of glass and bulk samples as determined by electron microscope is:

	GLASS		BULK	
	UT56	UT58	UT56	UT58
SiO_2	73.4	72.8	73.0	73.4
TiO	0.15	0.19	0.20	0.15
Al_2O_3	12.9	12.6	12.5	12.9
Fe_2O_3	1.05	1.25	1.22	1.05
MnO	0.03	0.05	0.05	0.03
MgO	0.23	0.14	0.27	0.23
CaO	1.33	1.12	1.12	1.33
Na_2O	3.58	4.00	3.67	3.58
K_2O	3.57	3.78	3.80	3.57
P_2O_5	0.09	0.14	0.10	0.09

Although the tephra is similar in age to the Lake Tapps tephra previously dated at 0.84 my, the composition is not the same. The Frigid Creek tephra is stratigraphically significant because till and sand of the Park Creek Drift underlies the tephra. Thus, the glaciation which deposited the drift is older than 0.89 ± 0.29 my.

MESOZOIC STRUCTURAL TIES OF CHUKOTKA AND ALASKA | № 44274

Natal'in, Boris A., Institute of Tectonics and Geophysics, Far East Science Centre, USSR Academy of Sciences, Khabarovsk, USSR

Tectonic elements similar to those of the modern lithospheric plate boundaries are found in Chukotka and Alaska Mesozoic folded systems. The South-Anyuy folded system is of great importance among them. In its central part there are Late Jurassic ophiolites (relicts of oceanic crust), glaucophane schists and Neocomian turbidites (relicts of forearc basins). Upper Jurassic to Neocomian volcanites of calc-alkaline (in some places alkaline) series, greywackes and conglomerates mark volcanic island arcs, and compose the marginal parts of the system. Tney overlie the margins of the Chukotka and East-Siberia sialic megablocks. The volcanic arc of the East-Siberia megablock is underlain by a Triassic-Jurrassic complex of similar type.

In Middle Paleozoic time the Chukotka megablock was connected to the North-American platform by the Brooks-Wrangell fold belt, and separated from tne East-Siberia megablock by an oceanic basin. The occurrence of Devonian volcanic complexes in the southern part of the Brooks Range, and along both sides of the South-Auyuy system, indicates activity at oceanic boundaries. The Jurassic convergence of tne North-American and East-Siberian continents ended with their collision at the end of the Neocomian. Their Cretaceous convergence caused the generation of strike-slip faults and oroclinal bends in the Bering Sea region. They are also found in the South-Anyuy system.

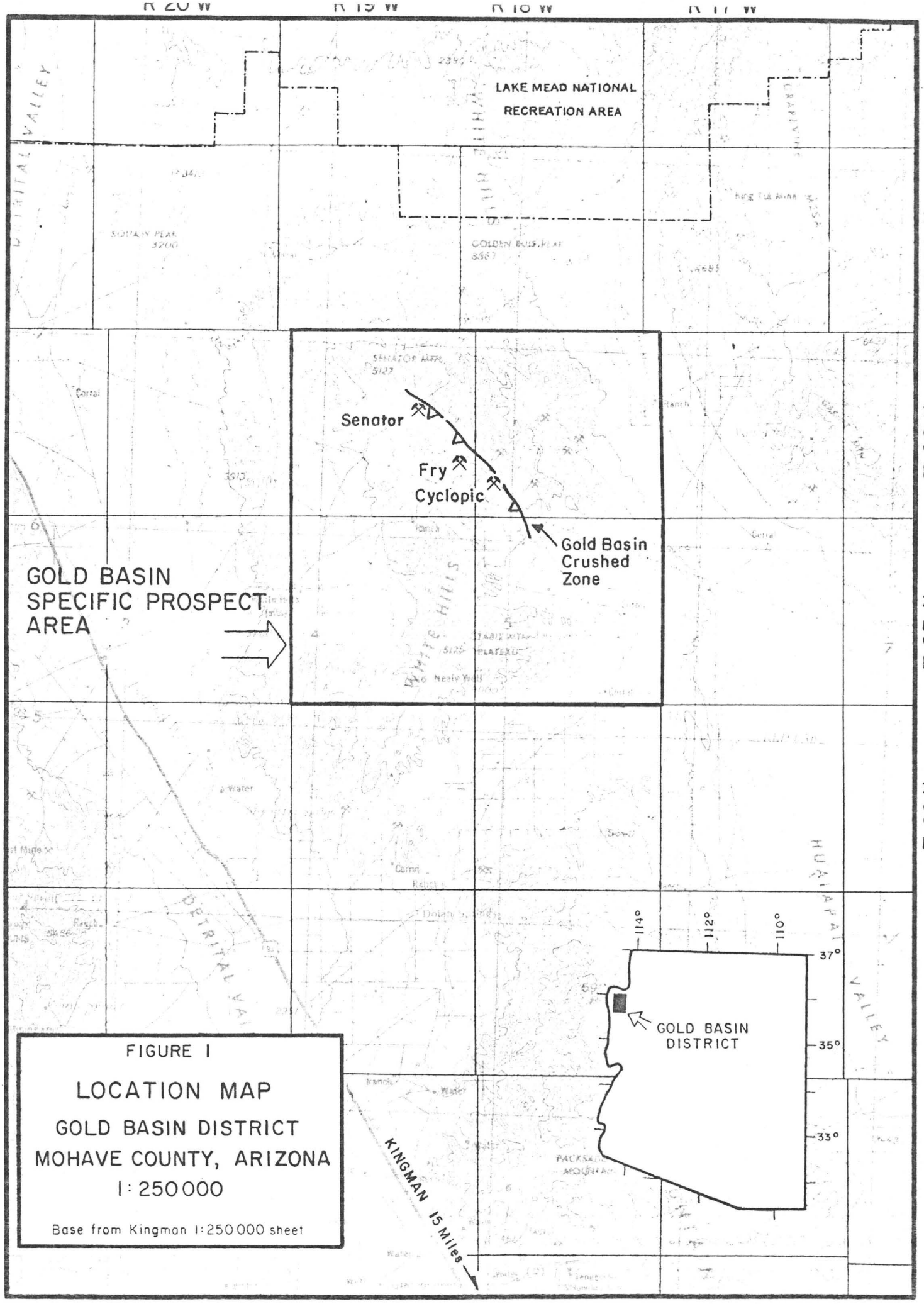


FIGURE 1

LOCATION MAP

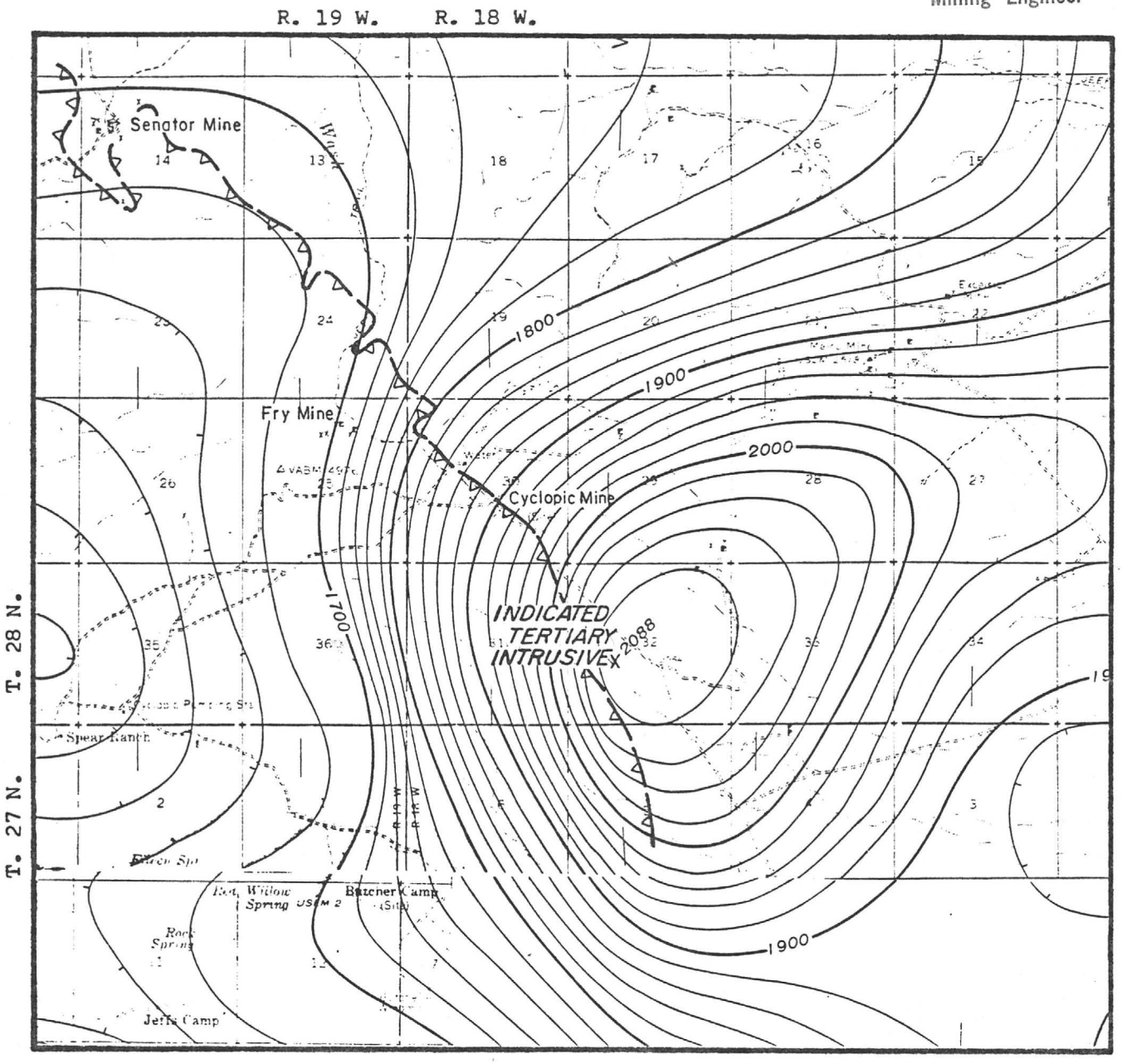
GOLD BASIN DISTRICT

MOHAVE COUNTY, ARIZONA

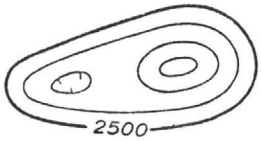
1:250000

Base from Kingman 1:250000 sheet

W.H. CRUTCHFIELD, JR.
Mining Engineer



EXPLANATION



Magnetic contours

Showing total intensity magnetic field of the earth in gammas relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Contour intervals 20 and 100 gammas

x2863

Location of measured maximum or minimum intensity within closed high or closed low

Flight path

Showing location and spacing of data

Figure 2

AEROMAGNETIC MAP OF GOLD BASIN AREA

Mohave County, Arizona

1 : 62,500

From:
USGS Aeromagnetic Map of the Gold Butte - Chloride Quadrangle, GP-757

Approximate location of the eastern edge of the Gold Basin Crushed Zone

PROSPECT GOLD BASIN DISTRICT

COUNTY MOHAVE STATE ARIZONA

SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh	BeO [2]	Li [2]	W [3]	AcidSol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [3]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
1659	Center of 25, 28 N, 20 W	Hidden prospect.	Quartzite gneiss from fault.						<1	275	.16			32	6	25	43	2	3	.12	0.9
1661	NW ¼ Section 14, 28 N, 19 W	Senator Mine.	Sheared leucogranite with siderite-chlorite.						1	680	.15			25	<5	17	41	6	1	.03	0.7
1662	"	"	Bleached earthy breccia with siderite and clay.						<1	520	.14			44	<5	7	32	6	5	.02	0.9
1663	NW ¼ Section 1 28 N, 19 W	Owens Mine.	Fresh gneiss, quartz K-spar, biotite, amphibolite.						2	445	.20			144	<5	8	33	6	3	.11	0.9
1664	"	"	Amphibolite dike with chlorite, siderite veinlets.						1	1200	.17			1384	<5	15	47	6	6	.87	2.0
1665	"	"	Silicified brecciated gneiss with copper quartz siderite veinlets.						1	1100	.98			8480	<5	46	43	15	5	1.41	2.2
1666	"	"	FeMnOx in fault breccia.						<1	910	.16			429	<5	13	27	7	4	.21	1.6
1667	NW ¼ Section 30, 28 N, 18 W	West of Cyclopic Mine	Fault gouge in hematitic gneiss.						15	1200	.28			58	<5	311	148	6	4	.07	1.4
1668	"	"	Upper edge of flat fault in hematitic gneiss.						28	610	.30			274	56	2038	562	7	5	4.65	2.6
1669	NE ¼ Section 25 28 N 19 W	Fry Mine.	Pliocene fanglomerate on dump.						18	720	.14			46	6	514	123	8	4	1.22	1.0
1671	NW ¼ Section 1 28 N 19 W	Owens Mine.	High grade copper with hematite, specularite, siderite alteration.						<1	20	.21		36	400	<5	60	31	2	5	2.82	2.2
1880	NE/NW Section 4, 27 N, 18 W	3 shafts; PLM claim.	Selected quartz vein on dump.				2	10	11	110	.18	1100	.910	168	5	108	12	11	3	8.40	2.0
1881	"	"	Grab of argillic altered Precambrian granite with pyrite and quartz.				6	20	140	250	.23	2700	1.08	14	<5	38	7	2	<2	2.31	1.3
1882	"	"	Drill cuttings, argillic altered Precambrian granite with pyrite & quartz.				5	19	21	375	.24	3500	.240	22	8	55	36	3	<2	.05	0.5
1883	"	East of headframe.	Silicified gneissic granite with quartz veinlets.				3	10	23	520	.29	760	.205	7	<5	7	25	2	<2	.18	<.2
1884	NW/SE Section 30, 28 N, 18 W	Cyclopic Mine.	Red-brown coarse tailings.				6	18	56	195	.27	1300	.910	274	27	6490	780	37	9	1.65	1.8
1885	"	Cyclopic Mine, old mill site.	Spill of mill feed; leucogranite.				5	4	4	345	.10	450	.070	20	<5	179	51	3	<2	.08	0.3
1886	"	"	Cemented quartz-granite breccia.				<1	6	16	65	.12	280	.480	116	11	1140	108	15	5	6.15	1.6
1887	"	Outcrop on road.	Leucogranitewith black FeOx on fractures.				5	3	3	340		350	.065	16	<5	24	28	<2	<2	.03	<.2
1888	"	In main pit.	Red mudstone gouge and and fault breccia.				11	18	77	410	.18	1200	.360	102	10	1169	193	16	<2	.21	1.5
1889	"	Dozer cut.	Red-brown unconsolidated gravel.				8	17	23	665	.15	660	.075	13	<5	80	50	2	3	.05	0.4
1891	"	Slit trench.	Unconsolidated gravels.				6	14	8	1000	.18	1200	.100	13	<5	29	67	<2	4	.03	0.2
1892	"	Prospect pit.	Mylonitic granite with quartz-sericite-pyrite.				8	9	9	610	.15	310	.070	29	<5	526	63	4	<2	.39	0.2
1893	"	Cyclopic pit.	Silicified gneissic granite breccia.				10	59	31	455	.15	1300	.475	112	7	1677	262	17	6	.80	1.1
1894	"	North end Cyclopic pit.	Quartz-granite breccia in low-angle fault.				5	14	64	255	.081	940	1.03	182	12	2077	216	43	11	8.1	3.2

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4. Gold results on samples 1659 through 1671 confirmed by repeats at USBRC and confirmation testing at Copper State Analytical (SWAC).

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SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh	BeO[2]	Li[2]	W[3]	Acid Sol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
1895	NW/SE Section 30, 28 N, 18 W	North end Cyclopic pit.	Gneissic granite below fault.				5	24	18	1100	.13	1300	.065	6	<5	45	97	13	<2	.05	0.3
1896	"	Percussion hole.	5' to 10' "wash fill", no bedrock.				7	28	38	665	.18	1700	.210	53	5	606	160	8	<2	.54	0.8
1897	"	Cyclopic pit.	Argillized gouge beneath fault.				10	292	51	675	.23	790	.130	412	8	2307	551	17	<2	3.12	1.0
1898	SE/SE Section 19, 28 N, 18 W	Adit on fault.	Altered gneissic granite with sericite and limonite.				4	42	4	310	.16	350	.055	47	<5	44	65	<2	<2	.05	<.2
1899	NE/NW Section 29, 28 N, 18 W	Digs at end of ridge.	Leucogranite with amphibolite.				4	9	3	145	.10	280	.030	125	<5	13	102	<2	4	.05	2.1
2201	NE/NE Section 25, 28N, 19W	Fry tank spillway.	Clay-quartz gneissic granite conglomerate or breccia.				6	16	5	670	.20	840	.070	10	<5	41	39	<2	<2	.30	0.9
2202	"	Prospect pit north of tank.	Quartz breccia - fault (?).				<1	7	74	95	.22	380	.175	97	8	1127	429	3	<2	.03	1.9
2203	"	"	Granite and conglomerate at fault contact.				6	15	80	340	.14	1200	.970	219	6	(11,860)	1400	17	<2	10.35	4.5
2204	NE/NE Section 25 28 N, 19 W	Fry Mine.	Hematitic granite with quartz veinlets.				4	4	22	430	.22	1100	.870	59	5	292	74	<2	2	.63	0.5
2205	"	"	Sandy conglomerate with granite and quartz.				3	25	45	835	.20	1800	.235	65	11	260	158	4	2	.56	1.1
2206	"	"	Sandy conglomerate with altered granite fragments.				6	26	5	550	.21	1300	.066	17	<5	38	46	<1	3	<.02	0.4
2207	"	"	Mine dump sample, conglomerate.				6	22	36	520	.53	1900	.475	135	10	1364	431	8	4	.92	7.3
2208	SW/SE Section 24, 28 N, 19 W	Cyclopic well.	Cuttings 0-375' (½ gpm).				4	17	6	1000	.23	2300	.250	11	<5	19	86	<2	<2	<.02	0.4
2209	SE/NW Section 11, 27 N, 20 W	Bonanza Mine area.	Quartz veins in leucogranite.				2	14	2	335	.22	700	.030	17	<5	16	45	11	7	<.02	0.8
2210	SW Section 18, 30 N, 18 W	Salt Spring Prospect.	FeOx quartz-rich conglomerate/ breccia.				2	30	10	1200	.66	620	.790	484	6	83	180	207	8	.05	2.3
2212	East ½ Section 24, 30 N, 19 W	Salt Spring wash.	Fault breccia with amphibolite and granite.				<1	21	2	1100	.24	490	.135	8	<5	10	43	<2	3	2.39	1.2
2213	NW/SE Section 33, 30 N, 17 W	Climax Mine.	Conglomerate with magnetite in drill cuttings.				2	17	25	390	.17	310	.920	79	35	83	69	11	<2	.03	0.4
2214	"	"	Sludge from mud pit.				2	32	3	405	.23	680	.055	38	7	40	67	9	<2	.12	0.8
2287	S½/NW Section 25, 28 N, 19 W	VABM 4976.	Light gray unaltered lithic tuff.						2	220	.09	2100	.14	101	<5	31	20	<2	<2	<.02	0.2
2288	NE/SW Section 25, 28 N, 19 W	On road at bend.	"						6	290	.12	3200	.11	23	<5	27	25	<2	<2	.03	<.2
2289	NW/NW Section 25, 28 N, 19 W	On ridge crest.	Bedded rhyolite ash flow.						1	200	.10	1400	.16	53	<5	25	73	<2	<2	.03	0.9
2290	SW/SW Section 24, 28 N, 19 W	East of ridge crest road.	Weathered granite.						2	350	.08	2500	.14	<5	<5	21	60	<2	<2	.03	<.2
2291	SE/SW Section 24, 28 N, 19 W	North of saddle.	"						19	470	.16	1700	.17	20	<5	393	43	<2	<2	.05	0.3
2292	NE/NE Section 24, 28 N, 19 W	East of road.	Leucogranite with pegmatite stringers.						5	280	.07	1900	.11	27	<5	157	53	<2	<2	.03	0.3
2293	NE/NE Section 25, 28 N, 19 W	Ridge east of stock tank.	Biotite granite gneiss.						2	910	.17	1600	.09	10	<5	27	54	<2	<2	.03	<.2

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SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS						BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W[3]	Acid Sol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
2295 A	NW¼ Section 14, 28 N, 19 W	500' north of saddle.	Alluvium below quartz breccia outcrop.	-80 Mesh sample		soil			288	450	.09	1100	.17	64	<5	34	87	4	<2	.24	0.5
B		400' north of saddle.							3	330	.07	1200	.22	57	<5	33	92	8	3	.05	0.3
C	Senator Mine traverse	300' north of saddle.							5	560	.09	1100	.11	54	<5	40	84	4	<2	.15	0.2
D		200' north of saddle.	Fine grained, true dirt quartz breccia.						4	450	.10	590	.12	58	<5	39	72	6	<2	.06	0.5
E		150' north of saddle.							379	520	.13	835	.20	6	<5	24	18	<2	<2	.05	<0.2
F		100' north of saddle.							12	890	.21	1600	.14	47	<5	34	78	4	<2	.05	0.8
G		50' north of saddle.							7	530	.10	1100	.12	55	<5	37	85	4	<2	.03	0.4
H		Saddle.	Amphibolite granite outcrop.						9	510	.11	930	.15	86	<5	34	101	5	<2	.03	0.3
I		100' south of saddle.	Leucogranite outcrop.						2	440	.08	1100	.12	24	<5	61	67	4	<2	.03	<0.2
J		200' south of saddle.	"						2	510	.09	505	.13	23	<5	49	75	5	<2	.03	<0.2
K		300' south of saddle.	"						2	410	.08	545	.17	18	<5	53	64	6	<2	.03	<0.2
2296 A	NE/NE Section 14, 28 N, 19 W	(south of # 2293) 100' south of hilltop.							2	430	.08	1300	.12	21	<5	44	92	4	<2	.03	<0.2
B		150' south of hilltop.							2	500	.11	1300	.14	23	<5	25	102	5	<2	.03	0.7
C	Cyclopic #1 traverse	200' south of hilltop.							5	300	.13	1000	.13	18	5	32	88	6	<2	.12	0.4
D		250' south of hilltop.							5	340	.10	1100	.13	26	<5	46	112	6	<2	.03	0.3
E		300' south of hilltop.							6	570	.23	2300	.22	13	<5	30	66	3	<2	.06	<.2
F		350' south of hilltop.	Prospect exposing fault.						10	390	.10	1000	.38	27	<5	164	125	4	<2	.06	<.2
G		400' south of hilltop.							15	360	.19	1100	.13	22	<5	74	81	5	<2	.09	0.4
H		450' south of hilltop.							6	420	.11	1600	.14	21	<5	48	90	3	<2	.06	<.2
I		500' south of hilltop.							6	490	.11	1100	.13	19	<5	40	80	7	<2	.12	<.2
J		550' south of hilltop.							7	350	.11	930	.15	20	<5	50	83	3	<2	.09	<.2
K		600' south of hilltop.	Precambrian granite.						4	300	.10	1900	.19	16	<5	45	65	2	<2	.06	1.3
L		700' south of hilltop.	"						16	500	.15	3200	.16	48	<5	57	86	4	<2	.06	<.2
M		800' south of hilltop.	"						5	530	.12	1500	.25	20	<5	58	82	4	<2	.06	0.9
N		900' south of hilltop.	"						3	450	.09	4500	.16	17	6	38	73	4	<2	.06	1.2

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	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W[3]	Acid Sol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
2297 A	NE NE Section 25, 28 N, 19 W	Hilltop east of Line 1.	Thin cover.	-80 Mesh soil Samples					4	340	.11	1300	.13	31	< 5	40	94	6	< 2	.09	0.9
B		150' south.	"						5	320	.08	1000	.12	33	< 5	42	100	4	< 2	.06	0.9
C	Cyclopic #2 traverse.	200' south.	"						5	440	.11	1900	.16	22	< 5	43	113	7	< 2	.06	0.9
D		250' south.	At prospect pit in Tertiary fanglomerate.						3	370	.08	1300	.15	24	< 5	42	92	8	< 2	.06	0.7
E		300' south.	Thicker alluvial cover.						4	440	.12	2600	.16	20	< 5	43	104	3	< 2	.06	1.1
F		350' south.	"						3	650	.16	2400	.17	15	< 5	31	75	2	< 2	.06	1.2
G		400' south.	"						2	440	.12	1500	.15	19	< 5	38	91	4	< 2	.06	0.9
H		450' south.	"						3	460	.11	1500	.14	19	< 5	41	93	7	< 2	.06	0.9
2298 A	Center of NW ¼ Sec 14 28 N, 19 W	500' north of saddle.	Alluvium below quartz breccia outcrop.	-20 to +80 screened soil samples					4					55	5	44	66	5	< 2	.12	0.9
B		400' north of saddle.							3					61	< 5	49	97	9	3	.03	0.6
C	Senator Mine traverse	300' north of saddle.							6					58	< 5	52	72	7	2	.08	0.7
D		200' north of saddle.	Fine-grained "true dirt".						6					64	< 5	38	62	7	< 2	.06	0.8
E		150' north of saddle.							8					63	< 5	50	80	4	< 2	.03	1.1
F		100' north of saddle.							13					53	5	38	77	5	< 2	.05	0.8
G		50' north of saddle.							7					52	< 5	34	80	6	< 2	<.02	0.8
H		Saddle.	Amphibolite granite outcrop.						9					83	< 5	42	94	3	< 2	<.02	0.6
I		100' south of saddle.							3					11	< 5	44	43	4	< 2	<.02	0.2
J		200' south of saddle.							2					12	< 5	65	46	8	< 2	<.02	<.2
K		300' south of saddle.							2					10	< 5	47	40	5	< 2	<.02	<.2
2299 A	NE NE Section 25, 28 N, 19 W	100' south of # 2293	Line 1.						3					16	< 5	52	95	4	4	.05	0.04
B		150' south of # 2293.							3					15	< 5	29	87	4	< 2	<.02	0.03
C	Cyclopic #1 traverse.	200' south of # 2293.							3					12	< 5	48	75	3	4	<.02	0.2
D		250' south of # 2293.							5					15	< 5	59	103	5	< 2	.03	0.2
E		300' south of # 2293.							8					11	< 5	31	53	2	< 2	.05	0.5

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	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	AcidSol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [3]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
2299 F	NE NE Section 25, 28 N, 19 W	350' south of # 2293.	Prospect on fault.	-20 to +80					12					33	<5	412	165	6	<2	.06	0.9
G		400' south of # 2293.		screened soil samples					31					20	<5	107	69	5	4	.09	1.0
H	Cyclopic #1 traverse.	450' south of # 2293.							8					12	<5	59	58	4	<2	<.02	0.7
I		500' south of # 2293.							8					12	<5	51	59	4	<2	<.02	0.7
J		550' south of # 2293.							9					11	<5	49	54	3	11	<.02	0.5
K		600' south of # 2293.	Precambrian granite.						5					16	5	51	61	3	4	.03	1.5
L		700' south of # 2293.	"						15					71	7	75	68	3	<2	.03	1.3
M		800' south of # 2293.	"						7					14	<5	47	48	6	<2	<.02	0.6
N		900' south of # 2293.	"						4					14	5	31	47	7	<2	<.02	0.8
2300 A	NE NE Section 25, 28 N, 19 W	Hilltop east of Line 1.	Thin cover.						5					27	5	54	71	5	<2	.03	0.5
B		150' south.	"						5					29	<5	47	68	5	<2	.06	0.7
C	Cyclopic #2 traverse.	200' south.	"						4					19	<5	42	90	7	<2	<.02	0.7
D		250' south.	At prospect pit in Tertiary fanglomerate.						4					25	<5	46	76	3	<2	<.02	0.7
E		300' south.	Thick alluvial cover.						4					19	<5	36	102	4	<2	<.02	0.8
F		350' south.	"						4					16	<5	39	74	4	<2	<.02	0.8
G		400' south.	"						4					20	5	40	70	4	<2	<.02	1.0
H		450' south.							4					5	<5	39	69	17	<2	<.02	0.6
2387	NW SW Section 12, 27 N, 19 W	Ridge at head of draw.	Red hematitic, argillized tuffaceous conglomerate and arkosic sandstone.						4			470	.080	37	<5	172	78	4	4	.03	1.8
2388	NW SW Sec 1, 27 N, 19 W	Near old road in gulch.	Limonite-hematite stained fine-grained andesite.						2			470	.040	50	<5	13	66	<2	3	<.02	1.4
2389	"	100' west of high-angle fault.	Reddish, bedded fanglomerate 20° dip 50' below contact with andesite.						7			830	.070	55	<5	22	34	2	<2	.04	1.8
2390	"	5' from high-angle fault.	Bleached, argillized fine-grained sandstone, cross-bedded.						9			800	.055	45	<5	28	88	<2	<2	.02	1.5
2392	SE SE Section 1, 27 N, 19 W	In bluff, south of Cyclopic pump sta. road	100' of sheared hematitic quartz-rich granite and quartz cobble fanglomerate.						9			450	1.03	8	<5	19	20	6	<2	.03	1.0
2393	NW SE Section 30, 28 N, 18 W	At north edge of new drilling.	Cyclopic quartz breccia on north side of big cut.						12			620	.790	215	14	1830	69	55	9	2.87	2.3

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2394	NW SE Section 30, 28 N, 18 W	Exposed in old mill foundation cuts.	Sheared chlorite-siderite altered gneiss? and gneissic granite exposed.						11			1200	.265	24	<5	47	99	3	<2	.05	1.4
2395	"	NW corner and at upper edge of deeper pit.	Small pod of hematitic-limonitic quartz breccia.						26			1100	1.13	71	15	1130	170	44	4	20.85	6.6
2396	"	NW corner of deeper pit.	Limonitic clays, fault gouge? and sheared gneiss, clays are heavy.						28			2200	.440	112	6	1290	465	25	5	.78	1.4
2397	NW NE Section 25, 28 N, 19 W	East shaft of Fry Mine.	Grab from dump at shaft.						49			2600	.625	570	13	5870	467	51	9	7.50	3.5
2398	"	South of east shaft of Fry Mine.	Chip sample, ~5' of limonitic sheared fanglomerate?						43			3100	.240	9	5	72	56	3	<2	.08	0.7
2399	NE NE Section 25, 28 N, 19 W	Prospect 300' north of road.	Sheared fanglomerate & fault gouge.						6			3300	.200	14	<5	64	94	<2	<2	.03	1.0
2430	Center of W½ Sec 12, 27 N, 19 W	Ridge crest.	Hematitic sandstone with chalcedony.						3			230	.26	17	<5	30	26	9	<2	.03	1.0
2431	SW NE Section 12, 27 N, 19 W	Ridge crest.	Hematitic sandstone with chalcedony veinlets.						9			225	.38	168	33	1050	800	3	<2	1.02	1.6
2432	NE SW Section 1, 27 N, 19 W	Bluff adjacent to wash.	Limonitic granite pebble conglomerate.						1			720	.12	9	<5	47	47	14	<2	.06	0.3
2433	NE SW Section 1, 27 N, 19 W	200'north of #2432.	Silicified granite pebble conglomerate.						2			310	.10	6	<5	22	25	7	<2	.05	0.6
2434	SE SE Section 1, 27 N, 19 W	Hillside near wash.	Non-hematitic conglomerate.						5			1100	.20	14	<5	32	33	29	<2	.03	1.0
2435	NW SE Section 1, 27 N, 19 W	Slope north of road.	Hot spring sinter (?)						1			3700	.09	14	6	45	12	3	<2	.03	4.6
2436	NE SE Section 1, 27 N, 19 W	Ridge north of road.	Poorly cemented sandstone.						3			1300	.19	11	<5	32	39	13	<2	.03	1.2
2437	SW SE Section 32, 28 N, 18 W	Wash below powerline.	Limonitic fractures in granite and aplite.																		
2438	NW SE Section 26, 28 N, 19 W	Prospect pit.	Quartz specularite veinlets in granite.						1			28,700	.08	6	<5	57	16	<2	<2	.05	1.0
2440	NE NE Section 31, 28 N, 18 W	Lower Cyclopic wash	Quartz specularite-chlorite altered granite.						5			780	1.46	719	6	364	288	19	<2	.15	3.4
2441	SW SW Section 29, 28 N, 18 W	Prospect on ridge.	Hematite-chlorite quartz altered granite.						10			660	.21	22	<5	47	71	<2	<2	.05	1.0
2442	NE NE Section 32, 28 N, 18 W	On ridge southeast of # 2441.	Altered alaskite with specularite-clay-chlorite.						14			335	.44	62	<5	50	57	<2	<2	.05	0.5
2443	Center NW¼ Section 31 28 N, 18 W	On old road.	Altered andesite float.						1			335	.80	54	<5	23	84	<2	<2	.06	2.0
2444	NW NW Section 31, 28 N, 18 W	Prospect pit.	Siderite, specularite, quartz altered granite breccia.						15			940	.41	6	<5	55	12	<2	<2	4.35	0.6
2445	SE NW Section 31, 28 N, 18 W	Shaft dump.	Hematized siliceous granite.						24			1100	1.60	66	7	295	7	10	7	3.09	3.3
2446	NW NE Section 31, 28 N, 18 W	Hillside.	Chlorite, siderite, hematite altered granite with minor quartz.						64			1200	.20	<5	<5	41	389	<2	<2	.09	1.2
2447	SW SE Section 30, 28 N, 18 W	North side of wash.	Biotite K-spar porphyry.						2			980	.23	11	<5	34	75	<2	<2	.03	0.9
2448	"	Ridge south of Cyclopic.	Hematite-chlorite granite.						3			370	1.50	<5	<5	12	51	<2	<2	.05	0.9
2449	"	Hillside above wash.	Quartz breccia.						3			335	.07	19	7	252	74	<2	<2	.38	11.3

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CORN & AHERN
CONSULTING GEOLOGISTS
TUCSON, ARIZONA

PROSPECT GOLD BASIN DISTRICT

COUNTY MOHAVE STATE ARIZONA

SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS					BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	AcidSol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [3]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
2501	NE NE Section 25, 28 N, 19 W	Prospect No. 1 north of road.	Sheared limonitic clay and gouge in flt.						45			2500	1.21	509	34	4100	970	21	2	8.85	4.7
2502	"	Prospect No. 2 ~1,000' north of road	Chip sample; fanglomerate with gneiss in hanging wall of fault.						5			840	.215	24	<5	44	60	6	3	.06	0.7
2503	"	Prospect No. 2, on dump.	Chip sample; ~6' below fault, hematitic chips-quartz fragments & hematitic gneiss.						17			1300	.185	74	<5	553	383	2	<2	.35	1.1
2504	"	Prospect No. 3	Hematitic and limonitic sheared gneiss ~20' below fault.						12			1600	.120	43	<5	29	81	<2	<2	.06	1.1
2505	"	Prospect No. 2, at dump ~1,000' n. of road.	Recrystallized quartz breccia, grey sheen suggests some cerussite in rx.						53			420	1.33	134	213	21,200	205	11	5	29.55	19.0
2539	Center Section 25, 28 N, 20 W	Shallow shaft.	Limonitic & jarositic fault breccia, fault is under quartz gneiss rubble.						9			2400	1.25	77	8	162	28	6	21	10.50	1.0
2541	NE NW Section 31, 28 N, 18 W	Zone above old prospect.	Chip sample; ~5' limonitic and argillized sheared fanglomerate.						54			1400	.225	32	<5	263	780	<2	<2	.05	1.2
2542	"	~10' above adit level below top of fault zone.	Chip sample of sheared argillic and limonitic Precambrian fragments & clays.						123			1500	.175	<5	<5	37	568	<2	<2	<.02	1.0
2543	"	Prospect dump.	Sheared limonitic and argillized Precambrian and fanglomerate below fault.						118			1200	.265	14	<5	73	506	<2	2	.03	1.3
2544	NW NW Section 31, 28 N, 18 W	In old road west of shaft & buried ladder.	Limonitic and argillized sheared material and fault gouge.						54			3300	.265	14	6	32	44	<2	4	<.02	1.1
2545	"	From (old) adit; dump sample.	Pyritic altered red zone with some capping indicating pyrite, chalcopyrite and chalcocite in rock with hematite-limonite.						19			1900	.560	214	10	150	111	7	<2	2.40	2.9
2546	Center SE¼ Section 30 28 N, 18 W	Coarse Cyclopic tails	Sand size fraction from Cyclopic tails.						16			2000	1.07	281	18	4840	830	20	5	1.44	1.9
2547	NE SW Section 25, 28 N, 19 W	Dump sample from small prospect on fault zone	Beneath tuff and lithic tuff. Poorly exposed, minor siderite & argillic alt.						67			1700	.520	31	6	97	99	<2	5	.17	0.8
2548	NE SE Section 25, 28 N, 19 W		Fine-grained, quartz-rich Precambrian granite with minor disseminated pyrite alteration to hematite with siderite and quartz veinlets.						30			5200	.160	23	5	127	69	<2	3	.03	0.8
2549	NE NW Section 25, 28 N, 19 W	On hill at head of gulch SW of Fry Mine.	Chip sample; ~6' sheared argillized Precambrian at upper contact with fanglomerate; hematite and limonite.						30			2900	.175	9	7	23	55	<2	3	.08	0.7
2551	NW NW Section 30, 28 N, 18 W	Below lower fault zone at small prospect.	Chip sample; ~6' hematitic and limonitic gouge with quartz breccia.						33			3600	.400	163	10	427	368	33	<2	.03	1.2
2552	"	In wash trending ENE through NW¼ of section.	Sample of siderite-chlorite altered dike in lower plate.						<1			890	.535	41	<5	52	200	<2	<2	<.02	1.6
2557	SE NW Section 31, 28 N, 18 W	Prospect pit in wash.	Altered fine-grained andesite or amphibolite-siderite & chlorite from lower part of fault.						<1			1200	.40	18	<5	27	47	<2	<2	.03	1.6
2558	NW NW Section 31, 28 N, 18 W	Copper prospect.	Pervasively silicified granite gneiss with pyrite and copper.						<1			2200	1.60	66	<5	215	8	<2	2	1.04	15.5
2559	"	Copper prospect dump.	Sheared granite with abundant hematite, limonite and pyrite.						13			1800	.95	116	19	80	<5	<2	7	9.60	3.5
2560	NW NE Section 25, 28 N, 19 W	Prospect west of Fry headframe.	FeMnOx stained zone with altered and weathered tuff in fanglomerate.						4			9800	.27	<5	<5	17	33	<2	14	.08	1.5

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SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS						BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W[3]	Acid Sol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
2561	SE NW Section 24, 28 N, 19 W	East wall mouth of short adit.	Hematitic, clay-altered sheared gr gneiss.						30			1500	.10	8	<5	24	79	<2	5	.05	1.6
2562	"	Dump of short adit.	Hematitic, sheared granite gneiss and dirt.						9			1900	.12	64	<5	39	120	<2	<2	.06	1.5
2563	NE NW Section 24, 28 N, 19 W	Gulch bottom, north of fanglomerate.	Sheared alaskite, fanglomerate exhibits chlorite-siderite alteration and white quartz veinlets.						<1			975	.11	8	<5	9	27	<2	<2	.03	0.7
2564	SW SE Section 12, 27 N, 19 W	SE of windmill.	Bedded conglomerate-granite cobbles in sandy matirx with orange siderite.						<1			775	.26	17	<5	17	52	<2	<2	<.02	1.0
2565	Center Section 12, 27 N, 19 W	Outcrop in gulch.	Red and orange-red altered conglomerate bed beneath andesite or within andesite.						<1			540	.12	18	<5	18	40	<2	<2	<.02	1.3
2566	"	In gulch.	Weakly altered andesite with clay and hematite, biotite with scattered chalcedony and calcite veinlets.						5			610	.10	17	<5	13	49	<2	<2	.17	1.1
2567	Center SE¼ Section 1 27 N, 19 W	On south bank of wash south of road.	Hematitic stained crushed zone with angular granite and quartz fragments.						<1			270	.14	18	<5	22	9	<2	<2	.03	1.5
2568	SW NW Section 14, 28 N, 19 W	Edge of crush & above Senator qtz bx	Hematitic and limonitic dirt with some fragments of hematite granitic gneiss.						1			890	.31	38	<5	30	74	6	<2	.06	1.9
2570	SW NW Section 22, 28 N, 19 W	Lower plate ?	Shattered hematitic-stained, red, coarse-grained granite-earthy hematite on fracture; chlorite and clay.						3			3000	.31	<5	<5	38	14	6	<2	.05	0.9
2572	NW NW Section 22, 28 N, 19 W	South of road.	Red clay matrix & pebbles in sheared fanglomerate, maybe near or in basal flt.						7			1300	.22	20	<5	28	55	3	<2	.03	1.4
2573	Center SW¼ Section 14, 28 N, 19 W	Shaft dump SW of Senator Mine.	Rubble with limonite-stained & siderite-chlorite altered coarse granite with some quartz and pyrite.						20			1300	.25	21	5	23	46	6	3	.66	1.0
2574	NW SW Section 14, 28 N, 19 W	Shallow pit, SW of Senator Mine.	Hematitic and sideritic argillized crush between fanglomerate above and leuco-granite below.						13			1000	.15	37	<5	57	87	21	<2	.06	1.4
2575	Center SW¼ Sec 14, 28 N, 19 W	Shallow cut.	Quartz vein material; quartz, coarse pyrite, minor galena, chalcopyrite, and possible tetrahedrite.						8			475	1.75	109	20	1090	12	38	30	31.5	10.9
2576	"	Cut 30' above shaft.	Fanglomerate, chlorite-siderite alteration, limonite stain and some shearing, argillic alteration.						9			1400	.21	39	5	91	56	5	<2	.24	1.1
2577	"	Short adit, 200' east of shaft.	Sheared argillized and limonite-stained faulted fanglomerate.						29			2100	.23	24	6	26	17	5	<2	9.60	1.4
2578	NE NE Section 15, 28 N, 19 W	On ridge northwest of Senator Mine.	Sheared hematitic amphibolite at base of fanglomerate.						3			560	.95	84	5	49	117	<2	<2	.06	2.0
2579	Center NW¼ Sec 14, 28 N, 19 W	Small cut SE of Senator Mine.	Hematitic gouge at base of fanglomerate.						23			900	1.85	18	5	25	60	8	<2	.12	2.0
2581	"	Prospect east of Senator Mine.	Hematitic & argillized gouge and quartz breccia.						15			570	1.93	15	<5	20	28	3	<2	.12	1.5

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2570 – 2581 Hg by "sniffer"

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COUNTY MOHAVE STATE ARIZONA

SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	Acid Sol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [1]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [1]	Ag [3]
2582	Center NW¼ Section 14 28 N, 19 W	Prospect east of Senator Mine.	Quartz breccia associated with fault gouge, cemented by quartz-$CO_3^{=}$.						3			205	1.90	18	6	9	20	12	<2	12.15	2.7
2583	"	East side of Senator.	Quartz breccia from sheared quartz vein with dark brown goethite.						9			245	.27	250	<5	14	20	7	<2	.41	0.9
2584	SW SW Section 13, 28 N, 19 W	Exposure in gulch.	Crushed alaskite with siderite and chlorite alteration of lower plate.						3			585	.12	43	<5	22	10	<2	<2	.06	1.1
2585	"	South of # 2584	Fine-grained diorite ? cut by thin siderite and quartz veinlets.						4			670	.10	23	<5	25	61	<2	<2	.05	2.2
2586	SW SW Section 13, 28 N, 19 W	1,000' south of #2584	Sheared, argillized fine-grained diorite of upper crushed zone.						11			930	.19	16	5	15	72	<2	<2	.06	1.7
2587	SW SW Section 24, 28 N, 19 W	Gulch, northwest of Fry Mine.	~40' sheared fanglomerate ? and granite, dip south to north.						4			3500	.35	18	5	16	53	<2	<2	.02	1.1
2588	Center SW¼ Sec 24, 28 N, 19 W	3' at adit mouth.	Hematitic and sideritic alteration, amphibolite gneiss? quartz bx on dump.						8			2900	.22	249	7	72	80	5	<2	.05	1.9
2589	"	Top of dump from 2588.	Sorted quartz breccia, fair hematite stain, druzy quartz in vugs.						15			255	.14	58	9	122	7	2	<2	6.45	2.6
2591	NW SW Section 15, 28 N, 19 W	In gulch, west of windmill.	Diorite rubble below fault, clay seams and hematite stain.						3			600	.25	8	<5	12	33	2	<2	.12	1.3
2592	NE SE Section 15, 28 N, 19 W	Toe of road cut.	Sheared and bleached leucogranite, siderite-chlorite and sericite alteration.						15			745	1.80	10	<5	177	39	4	<2	.05	0.5
2593	NW NW Section 14, 28 N, 19 W	Dozer cut on ridge.	Sorted quartz breccia, cut by siderite and hematite seams.						4			290	.28	36	5	5	<5	5	<2	.05	0.3
2594	"	Cut on top of west ridge.	Milled quartz breccia, recemented and stained with jarosite.						5			350	.16	54	<5	23	14	4	<2	.05	0.7
2595	SE SW Section 24, 28 N, 19 W		Fanglomerate or amphibolite gneiss, argillized, some red hematite streaks.						5			870	.14	26	<5	76	49	<2	<2	.03	0.7
2596	"	Prospect pit.	Sheared amphibolite gneiss with siderite, dark hematite, and manganese stain.						5			1700	.17	<5	<5	17	79	2	<2	.03	0.6
2597	NW SE Section 25, 28 N, 19 W	Prospect pit.	Shattered hematized amphibolite ? and amphibolite gneiss with quartz or chalcedony veinlets.						24			1200	1.76	20	<5	29	78	3	<2	.26	0.7
2598	"	Shallow shaft.	Milled granite on dump carries abundant purple fluorite.						6			1.98%	.75	115	7	2330	52	12	11	.51	0.7
2599	"	Shallow shaft.	Quartz breccia with abundant hematite-limonite.						5			1300	.43	14	26	639	<5	6	<2	1.94	1.1

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SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL*	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	Acid Sol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [1]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
3002	SW NE Sec 30	Exposure in cut 100 ft. from road.	Lower Plate; sheared coarse granite.						26				.23	32	<5	37	57	2	<2	.02	.9
3003	"	Gulch bottom.	Lower Plate; sheared lamprophyre.						77				.23	6	<5	19	113	2	<2	<.02	1.3
3004	"	"	Lower Plate; sheared lamprophyre and granite.						3				.17	51	<5	19	85	2	<2	<.02	1.8
3005	"	"	"						15				.17	10	<5	26	51	3	<2	.03	.9
3006	SW NW Sec 29	Major gulch.	Lower Plate; medium-grained biotite granite.						8				.11	13	<5	15	70	<2	<2	.03	1.0
3007	NW SW Sec 29	"	Lower Plate; siderite-hematite altered lamprophyre.						4				.11	51	<5	9	17	<2	<2	.03	.6
3008	SE NE Sec 30	South of gulch.	"						1				.24	18	<5	32	194	2	<2	<.02	1.4
3009	"	Hill.	Lower Plate; sheared coarse leucogranite.						131				.11	<5	<5	16	88	<2	<2	.03	1.1
3010	SE SE Sec 30	North of Cyclopic road.	Lower Plate; layered gneiss.						44				.12	<5	<5	17	72	<2	2	<.02	1.9
3012	"	400 ft. north of Cyclopic road.	Lower Plate; sheared coarse-grained leucogranite.						25				.11	6	<5	9	54	<2	<2	.06	1.1
3013	"	South of Cyclopic road.	Lower Plate; sheared gneissic granite.						27				.12	7	<5	72	79	<2	<2	.04	1.0
3014	"	"	"						12				.90	12	<5	189	96	2	<2	.05	1.1
3015	"	Gulch bottom, east of road.	Lower Plate; sheared layered gneiss.						9				.14	10	6	33	37	<2	<2	<.02	.9
3016	SW SW Sec 29	Shaft dump.	Lower Plate; sheared gneiss and lamprophyre.						2				.12	294	<5	15	99	<2	<2	<.02	1.3
3017	"	"	"						2				.18	37	<5	25	116	<2	<2	<.02	1.9
3018	"	Gulch bottom, east of road.	Breccia in lower part of crush.						3				.06	7	<5	46	151	<2	<2	<.02	1.3
3019	SE NW Sec 30	Flat between roads.	Lower Plate; shattered, coarse leucogranite.						13				.42	36	<5	40	75	<2	<2	.11	1.7
3021	SE SE Sec 30	NE Cor GB 39.	Lower Plate; layered gneiss and lamprophyre.						1				.18	9	8	21	73	<2	<2	.06	1.7
3021 A	"	NE Cor GB 40.	"						7				.09	6	<5	171	91	<2	<2	.06	1.4
3021 B	SW SE Sec 30	NE Cor GB 41.	Surface debris near crushed zone.						8				.09	85	<5	28	60	<2	<2	.03	1.4
3022	SE SW Sec 30	NE Cor GB 42.	"						3				.06	27	<5	20	60	<2	<2	<.02	1.4
3022 A	"	100 ft. east of NE Cor GB 42.	"						1				.09	5	<5	15	63	<2	<2	<.02	1.3
3022 B	"	100 ft. southwest of NE Cor GB 43.	"						13				.59	17	<5	107	355	<2	<2	.11	2.3
3023	"	NE Cor GB 43.	"						10				.06	11	6	40	61	<2	<2	<.02	1.3
3024	SW SW Sec 30	NE Cor GB 44.	Middle Plate; shattered fine-grained granite.						1				.08	11	5	28	60	<2	<2	<.02	1.3

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*Township 28 North, Range 18 West

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3025	SW SW 30, 28 N., 18 W	NE Cor GB 45.	Middle Plate; fine-grained granite.						5				.08	11	<5	26	50	<2	<2	<.02	1.3
3026	"	NE Cor GB 46.	Middle Plate; fine-grained granite.						6				.08	12	5	18	46	2	<2	<.02	1.3
3027	SE SE 25, 28N., 19W.	SE Cor GB 50.	"						10				2.18	25	6	762	60	2	<2	<.02	7.0
3028	"	SE Cor GB 51.	"						6				.16	13	<5	43	58	<2	<2	<.02	1.4
3029	"	SE Cor GB 52.	"						4				.12	10	<5	36	48	<2	<2	<.02	1.5
3030 A	SE SE 30, 28N., 18W.	NE Cor GB 89.	Lower Plate; sheared quartz-feldspar gneiss.						5				.12	28	<5	20	74	2	<2	<.02	1.4
3031	SW SE 25, 28N., 19W.	SE Cor GB 53.	Middle Plate; coarse porphyritic biotite granite.						7				.19	23	<5	28	47	<2	<2	.02	.9
3032	"	SE Cor GB 54.	Middle Plate; coarse quartz feldspar gneiss.						10				.14	18	<5	20	55	<2	<2	.03	1.0
3033	SE SW 25, 28N., 19W.	SW Cor GB 54.	Upper Plate (?); fanglomerate debris.						18				.08	13	5	21	45	2	<2	<.02	1.1
3034	SE NW 30, 28N., 18W.	NE Cor GB 47.	Debris near crushed zone.						56				.27	121	7	1990	524	18	2	.54	2.3
3035	SW NW 30, 28N., 18W.	NE Cor GB 48.	Middle Plate; fine-grained granite.						9				.06	10	<5	25	47	<2	<2	.02	1.1
3035 A	"	Road cut.	Middle Plate; sheared fine-grained granite.						13				.13	13	<5	103	51	4	<2	.28	2.3
3036	"	NE Cor GB 49.	Middle Plate; fine-grained granite.						10				.10	11	6	21	58	<2	<2	<.02	1.3
3037	SE NE 25, 28N., 19W.	NE Cor GB 50.	"						11				.10	13	<5	24	60	<2	<2	.03	1.2
3038	"	NE Cor GB 51.	"						10				.10	12	<5	19	53	<2	<2	<.02	1.4
3039	"	NE Cor GB 52.	"						10				.08	12	<5	24	56	<2	<2	.02	1.3
3041	SW NE 25, 28N., 19W.	NE Cor GB 53.	Middle Plate; coarse porphyry biotite granite.						13				.10	12	<5	21	57	<2	<2	.07	1.4
3042	"	NE Cor GB 54.	Middle Plate; coarse quartz-feldspar gneiss.						22				.19	6	5	27	22	<2	<2	.02	1.4
3043	SE NW 25, 28N., 19W.	NW Cor GB 54.	"						20				.15	7	5	11	38	<2	<2	<.02	1.4
3044	"	SE Cor GB 58.	Upper Plate; fanglomerate.						5				.13	12	<5	29	51	<2	<2	<.02	1.5
3045	SW NW 25, 28N., 19W.	SW Cor GB 58.	"						2				.10	9	<5	25	41	<2	<2	.02	1.3
3046	NW NE 25, 28N., 19W.	NE Cor GB 55.	Middle Plate; coarse porphyry biotite granite.						4				.10	9	<5	31	59	<2	<2	.03	1.9
3047	"	NE Cor GB 56.	Debris near crushed zone.						5				.22	26	<5	18	51	<2	<2	.05	1.6
3048	NE NW 25, 28N., 19W.	SE Cor GB 59.	"						11				.56	11	<5	20	41	3	<2	.12	1.5
3048 A	"		Upper part of crushed zone.						15				.19	6	6	10	39	<2	2	.04	1.5

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SAMPLE LOG

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	Acid Sol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [3]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
3049	NE NW 25, 28N., 19W.	NE Cor GB 57.	Middle Plate; debris near crushed zone.						5				.29	16	<5	33	56	5	<2	.02	1.5
3051	NE SE 25, 28N., 19W.		Middle Plate; sheared fine-grained granite.						20				.30	11	6	110	47	<2	<2	.03	1.3
3052	SW SE 25, 28N., 19W.		Middle Plate; sheared coarse quartz-feldspar gneiss.						35				.36	8	5	18	38	<2	<2	.02	1.0
3053	NW SE 25, 28N., 19W.		"						28				.07	6	<5	18	25	<2	<2	<.02	.9
3054	NW SW 30, 28N., 18W.	Prospect pit.	Middle Plate; sheared fine-grained granite.						3				.09	11	<5	22	56	<2	<2	<.02	1.0
3055	"	North side of hill.	Middle Plate; crushed and sheared argillic fine-grained granite.						3				.07	13	5	23	48	<2	<2	<.02	1.4
3056	C-25, 28N., 19W.	North of road.	Middle Plate; coarse quartz-feldspar gneiss.						9				.05	6	<5	16	34	<2	<2	<.02	1.0
3057	"	"	"						35				.07	8	<5	19	41	<2	2	.07	1.3
3058	NW NW 25, 28N., 19W.	NE Cor GB 58.	Upper Plate; fanglomerate.						5				.09	15	<5	27	45	3	2	<.02	1.2
3059	"	SW Cor GB 59.	"						1				.07	9	<5	20	34	<2	<2	<.02	1.3
3061	"	SW Cor GB 61.	"						9				.09	19	5	19	41	2	<2	<.02	1.3
3062	"	SW Cor GB 60.	"						2				.09	30	<5	23	62	<2	<2	<.02	1.5
3063	"	SE Cor GB 61.	"						2				.09	26	<5	28	55	<2	<2	<.02	1.4
3064	NE NW 25, 28N., 19W.	SE Cor GB 62.	Middle Plate; sheared gneiss.						2				.09	32	<5	27	43	2	<2	<.02	1.6
3065	"	SE Cor GB 63.	"						3				.09	12	<5	32	44	2	<2	<.02	1.2
3066	NW NE 25, 28N., 19W.	SE Cor GB 64.	"						2				.11	12	5	36	46	2	2	<.02	1.3
3067	"	SE Cor GB 65.	"						4				.09	15	<5	32	70	<2	<2	<.02	1.4
3068	NE NE 25, 28N., 19W.	SE Cor GB 66.	Middle Plate; sheared gneiss.						1				.07	16	<5	30	59	<2	<2	<.02	1.8
3069	"	SE Cor GB 67.	Middle Plate; gneissic porphyry biotite granite.						3				.09	12	<5	31	63	<2	<2	<.02	1.9
3071	"	SE Cor GB 68.	Lower Plate; sheared gneiss.						1				.19	17	<5	29	53	7	<2	<.02	1.7
3072	NE Cor 31, 28N., 18W.	SE Cor GB 89.	Lower Plate; sheared gneiss.						7				2.28	33	9	294	144	5	2	.03	10.1
3073	NE NE 31, 28N., 18W.	SE Cor GB 39.	Lower Plate; sheared gneiss.						9				.61	15	<5	35	91	4	<2	<.02	1.2
3074	"	SE Cor GB 40.	Middle Plate; coarse biotite granite.						2				.28	18	5	29	70	4	<2	<.02	1.0
3075	NW NE 31, 28N., 18W.	SE Cor GB 41.	Upper Plate; fanglomerate.						3				.24	24	<5	27	55	4	<2	<.02	.9
3076	"	SE Cor GB 42.	"						13				.18	19	<5	43	107	3	<2	<.02	1.1

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SAMPLE LOG

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	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W[3]	Acid Sol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
3077	NE NW 31, 28N., 18W.	SE Cor GB 43.	Upper Plate; fanglomerate.						3				.18	10	7	24	35	2	<2	.04	.9
3078	"	SE Cor GB 44.	Middle Plate; fanglomerate & quartz-feldspar gneiss.						5				.18	15	5	35	58	3	<2	<.02	.8
3079	NW NW 31, 28N., 18W.	SE Cor GB 45.	Fanglomerate debris on Middle Plate rocks.						4				.28	12	5	30	42	7	<2	<.02	1.0
3081	"	SE Cor GB 46.	Middle Plate; fine-grained granite.						8				.19	12	5	27	41	2	<2	<.02	1.1
3082	"	SW Cor GB 46.	Upper Plate; fanglomerate.						2				.11	10	5	30	41	<2	<2	<.02	.9
3083	NE NE 36, 28N., 19W.	NE Cor GB 1.	Upper Plate; fanglomerate.						3				.11	13	5	38	42	3	<2	<.02	.9
3084	"	NE Cor GB 2.	"						2				.18	24	<5	29	64	3	<2	<.02	1.1
3085	"	NE Cor GB 3.	"						3				.16	17	<5	30	48	3	<2	<.02	1.0
3086	NW NE 36, 28N., 19W.	NE Cor GB 4.	"						8				.16	15	<5	31	46	3	<2	<.02	1.1
3087	"	NE Cor GB 5.	"						4				.16	17	<5	28	46	4	<2	<.02	1.0
3088	"	NE Cor GB 6.	"						9				.18	17	<5	28	48	4	<2	<.02	1.0
3089	NE NW 36, 28N., 19W.	NE Cor GB 7	"						1				.16	15	<5	33	31	2	<2	<.02	1.4
3091	NW NW 36, 28N., 19W.	NE Cor GB 8.	Middle Plate; crushed granite.						4				.11	7	6	42	21	6	<2	<.02	1.1
3092	SE NW 36, 28N., 19W.	SW Cor GB 6.	Upper Plate; fanglomerate.						7				.11	12	5	26	43	8	<2	<.02	.9
3093	SW NW 36, 28N., 19W.	SW Cor GB 7.	Middle Plate (?); crushed granite.						<1				.11	14	<5	17	44	5	<2	<.02	1.1
3094	"	SW Cor GB 8.	"						<1				.09	8	7	32	35	10	<2	<.02	1.1
3095	"	SW Cor GB 9.	"						3				.09	7	8	28	32	12	<2	<.02	1.0
3096	SE NW 36, 28N., 19W.	SW Cor GB 5.	Upper Plate; fanglomerate.						5				.11	10	5	33	37	3	<2	<.02	1.2
3097	SW NE 36, 28N., 19W.	SW Cor GB 4.	"						4				.14	30	<5	22	53	3	<2	<.02	1.4
3098	"	SW Cor GB 3.	"																		
3099	SE NE 36, 28N., 19W.	SW Cor GB 2.	"						3				.11	15	5	24	42	2	<2	<.02	1.4
3101	"	SW Cor GB 1	"						12				.14	16	<5	7	11	<2	<2	.07	.7
3102	NW Cor 24, 28N., 19W.	NW Cor GB 88.	Middle Plate; chlorite-CO_3 rock.						2				.11	8	<5	22	87	<2	<2	.06	1.9
3103	NE SE 24, 28N., 19W.	NE Cor GB 69.	Lower Plate; alaskitic altered leucogranite.						3				<.05	12	<5	22	52	4	<2	<.02	1.0
3104	"	NE Cor GB 70.	Middle Plate; debris in vicinity of crush zone.						2				.17	7	<5	12	41	<2	<2	.03	.8

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	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	Acid Sol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [1]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
3111	SW NW 24, 28N., 19W.	SW Cor GB 78.	Upper Plate; fanglomerate.						4				.17	16	<5	23	54	3	<2	<.02	1.0
3112	"	NW Cor GB 78.	"						4				.21	23	<5	19	61	2	<2	<.02	1.0
3114	"	NW Cor GB 79.	"						2				.16	27	<5	14	73	2	<2	<.02	1.3
3115	"	NW Cor GB 80.	"						7				.14	11	<5	14	44	<2	<2	<.02	.6
3116	NE NW 24, 28N., 19W.	NW Cor GB 81.	Middle Plate; layered gneiss.						3				.12	15	<5	43	71	2	<2	.04	.6
3121	"	NE Cor GB 85.	Lower Plate; sheared leucogranite.						5				.14	20	<5	42	40	<2	<2	.03	.5
3122	"	NE Cor GB 86.	"						2				.48	13	<5	15	27	<2	<2	.03	1.0
3126	NW NW 24, 28N., 19W.	NW Cor GB 86.	Middle Plate; sheared lamprophyre and fanglomerate.						2				.16	17	<5	15	70	<2	<2	<.02	.4
3126 A	"	100 ft. south of NW Cor GB 86.	"						3				.23	7	<5	11	51	<2	<2	<.02	.9
3127	SE NW 25, 28N., 19W.	Saddle on ridge 700' southwest of Fry.	Middle Plate; sheared coarse quartz-feldspar gneiss.						3				.09	10	<5	26	45	2	<2	<.02	1.3
3127 A	"	"	Middle Plate; sheared coarse quartz-feldspar gneiss with siderite & quartz seams.						44				.38	14	6	102	36	<2	<2	.03	1.3
3128	"	South of Fry.	Middle Plate; sheared coarse quartz-feldspar below quartz breccia.						26				.25	5	5	12	43	<2	<2	.05	1.3
3129	"	"	Middle Plate; brown quartz breccia - siderite but no limonite or hematite stain.						4				.13	<5	<5	7	16	<2	<2	<.02	2.0
3131	NW NW 25, 28N., 19W.	South end GB 60 & 61.	Upper Plate; shattered coarse porphyritic biotite granite in fanglomerate?						4				.18	6	<5	13	48	6	<2	<.02	2.7
3132	NW NE 25, 28N., 19W.	Fry Mine.	Middle Plate; 8-inch limonite stained shear zone and gouge at raise.						67				.80	317	17	9460	2000	13	8	1.34	41.3
3133	NE NE 31, 28N., 18W.	West of road.	Lower Plate; sheared coarse quartz-feldspar gneiss.						15				.23	7	<5	120	220	<2	2	<.02	17.6
3134	SE SW 25, 28N., 19W.	100 ft. north of NW Cor GB 6.	Middle Plate; two feet of crushed material base of fanglomerate.						16				.25	14	7	30	54	6	2	.21	6.8
3135	NE NW 36, 28N., 19W.	Road-cut power line road.	Middle Plate; hematite stained crushed zone at lower edge of fanglomerate.						14				.23	10	6	29	39	3	2	.07	8.8
3136	SE NE 36, 28N., 19W.	"	Middle Plate; hematite-siderite stained shear zone.						16				.32	20	5	73	47	<2	<2	<.02	4.9
3137	"	"	"						10				.45	57	6	114	55	6	<2	<.02	3.9
3138	"	"	Middle Plate; sheared fine-grained granite.						3				.16	9	7	22	37	<2	<2	<.02	3.1
3140	NE NE 36, 28N., 19W.	SE Cor GB 1.	Upper Plate; fanglomerate.						4				.13	22	<5	26	65	3	<2	.02	1.7
3141	SW NW 31, 28N., 18W.	SW Cor GB 32.	Middle Plate - Upper Plate (?); Crush and fanglomerate debris.						5				.11	20	<5	32	49	3	<2	.44	1.6
3142	"	SE Cor GB 32.	Upper Plate; fanglomerate.						4				.11	24	<5	28	59	2	<2	.02	1.0
3143	"	SE Cor GB 33.	"						3				.09	14	5	38	50	3	<2	<.02	1.1

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	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W [3]	Acid Sol Ba [2]	Total Ba % [2]	F [2]	Hg [2]	Cu [3]	Mo [3]	Pb [3]	Zn [3]	As [3]	Sb [3]	Au [3]	Ag [3]
3144	SE NW 31, 28N., 18W.	SE Cor GB 34.	Upper Plate; fanglomerate.						4				.09	12	5	29	43	3	< 2	<.02	.9
3145	"	SE Cor GB 35.	"						< 1				<.05	19	< 5	27	46	< 2	< 2	<.02	1.0
3146	SW NE 31, 28N., 18W.	SE Cor GB 36.	"						1				.09	21	5	37	65	2	< 2	<.02	1.3
3147	"	SE Cor GB 37.	Fanglomerate debris.						6				.09	14	< 5	37	78	2	< 2	<.02	1.6
3148	SE NE 31, 28N., 18W.	SE Cor GB 38.	Debris in vicinity of crush.						1				.20	23	< 5	55	72	3	< 2	<.02	1.5
3149	NW NW 36, 28N., 19W.	NW Cor GB 8.	Upper Plate; andesite.						1				.09	23	< 5	31	41	3	< 2	<.02	1.8
3150	"	NW Cor GB 9.	"						< 1				.05	94	< 5	26	86	7	< 2	<.02	1.8
3152	SE SE 24, 28N., 19W.	NE Cor GB 68.	Lower Plate; leucogranite.						< 1				.09	149	< 5	28	93	2	< 2	<.02	2.0
3153	"	SW Cor GB 69.	Fanglomerate debris near crush.						< 1				.05	28	< 5	33	69	3	< 2	<.02	1.8
3154	"	SW Cor GB 70.	Upper Plate; fanglomerate.						< 1				.05	23	< 5	33	57	2	< 2	<.02	2.1
3155	SW SE 24, 28N., 19W.	SW Cor GB 71.	Upper Plate; fanglomerate.						< 1				.05	13	< 5	25	53	2	< 2	<.02	1.7
3156	"	SW Cor GB 72.	Middle Plate; poorly exposed sheared layered gneiss.						< 1				.07	29	6	33	38	4	< 2	<.02	2.4
3157	SE SW 24, 28N., 19W.	SW Cor GB 73.	Upper Plate; fanglomerate.						< 1				.05	25	< 5	29	57	3	< 2	<.02	2.3
3158	"	SW Cor GB 74.	"						1				.09	21	< 5	31	58	3	< 2	<.02	1.9
3159	SW SW 24, 28N., 19W.	SW Cor GB 75.	"						< 1				.05	20	< 5	33	58	2	< 2	<.02	2.3
3160	"	SW Cor GB 76.	"						< 1				.07	16	< 5	37	62	4	< 2	<.02	2.2

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3168	SW NW 30, 28N., 18W.	Northwest of Cyclopic Mine.	Altered fine-grained granite (Middle Plate) near fluorite prospect.						37				.09	42	9	437	232	3	< 2	.02	2.4
3169	"	Prospect pit, northwest of Cyclopic Mine	Middle Plate. Brecciated quartz with fluorite on dump.						32				5.86	36	301	2220	362	5	2	.19	5.6
3170	"	"	4-6" vein of fluorite-cerusite-no quartz with hematitic limonite. Middle Plate.						116				238	283	565	2%	590	ND	5	3.53	214
3171	SW NE 25, 28N., 19W.	1500' south of Fry Mine.	Middle Plate. Altered coarse-grained leucocratic granite.						41				.84	5	9	636	26	< 2	< 2	.10	2.0
3172	SE NW 25, 28N., 19W.	Pit on ridge.	Middle Plate. Altered gneiss.						48				.31	< 5	5	76	33	2	4	.03	1.3
3173	SW SW 30, 28N., 18W.	Validation pit.	Middle Plate. Shattered fine-grained granite.						5				.27	< 5	5	69	22	2	3	<.02	1.6
3174	NE SW 30, 28N., 18W.	Near Cyclopic.	Middle Plate, above crush. Silicified and sheared gneiss.						25				2.45	5	6	110	75	< 2	< 2	.04	1.5
3183	SW SE 25, 28N., 19W.	1000' southeast of fluorite prospect.	Middle Plate. Crushed and sheared altered gneiss.						27				.98	24	14	28	19	10	< 2	.43	1.7
3184	NW NW 31, 28N., 18W.	Dump of adit.	Middle Plate. Tan to gray silicified fault breccia.						25				11.02	184	14	299	144	35	< 2	25.3	11.0
3185	"	Prospect pit.	Middle Plate. Pyritized and silicified gneiss and granite.						9				1.16	13	9	21	7	2	2	2.68	1.4
3186	"	Road cut and drill site.	Middle Plate. Sample across 100' of pyritized gneiss and granite.						13				.83	13	10	23	7	2	2	2.09	1.2
3187	NE NE 36, 28N., 19W.	Prospect pit near head of gulch.	Middle Plate. Silicified and pyritized gneiss on wall of pit.						19				.55	13	10	31	9	2	2	.54	1.2
3188	"	Head of gulch.	Middle Plate. Crushed material and fault below fanglomerate.						6				.18	6	8	89	49	< 2	< 2	<.02	1.0
3189	"	"	Middle Plate. Extensive exposure crushed rock.						9				.16	9	9	49	48	< 2	< 2	.19	0.9
3191	NW SE 26, 28N., 19W.	Fluorite prospect.	Middle Plate. Sample of 6' of granite with fluorite veinlets.						5				.13	11	8	61	13	2	< 2	.06	1.3
3192	"	"	Middle Plate. Gouge and crushed granite on east side of pit.						5				.13	7	7	36	18	3	< 2	.09	1.0
3193	"	"	Middle Plate. Dense unmineralized granite.						4				.07	5	6	38	23	< 2	< 2	<.02	0.7
3194	SE SE 24, 28N., 19W.	Shaft dump.	Lower Plate. Alaskitic altered granite.						2				.17	6	< 5	15	35	< 2	< 2	<.02	0.6
3195	"	Top of hill.	Lower Plate. Episyenite altered with sulfides in granite.						4				.24	577	19	17	29	< 2	< 2	<.02	0.9
3196	SE NW 24, 28N., 19W.	Prospect pit.	Middle Plate. Shattered biotite granodiorite.						6				.22	27	5	18	49	3	< 2	<.02	1.0
3197	SE NE 1, 27N., 19W.	North of road.	Middle Plate. Quartz vein zone in granite.						4				.15	12	< 5	20	22	2	< 2	<.02	0.7

1 VALUES IN PPM EXCEPT "TOTAL BARIUM" WHICH IS IN %
2 COPPER STATE ANALYTICAL, TUCSON
3 U.S BORAX RESEARCH CENTER, ANAHEIM

CORN & AHERN
CONSULTING GEOLOGISTS
TUCSON, ARIZONA

PROSPECT Gold Basin

COUNTY Mohave STATE Arizona

SAMPLE LOG

PAGE ____ OF ____

SAMPLE NUMBER	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS							BASE METALS				SULFO-SALTS		PRECIOUS METALS	
	LEGAL	GEOGRAPHIC	LITHOLOGY AND MINERALIZATION	U_3O_8	eU	eTh			W[3]	AcidSol Ba[2]	Total Ba %[2]	F[2]	Hg[2]	Cu[3]	Mo[3]	Pb[3]	Zn[3]	As[3]	Sb[3]	Au[3]	Ag[3]
3227-B	SW/NW/30, T28N,R18W	PP above Fry stock tank	Panned heavy concentrate sample no. 2799 from crush zone used for screen test						930				---	---	---	---	---	---	---	---	---
3847	NE/NW/31,T28N,R18W	On rd. 50' SW of RDH GB-13	Fault, coarse grained granite w/no limonite staining						17				.24	7	5	28	46	2	<2	.04	1.6
3847-A	" "	20' SW of 3847	Coarse grained granite, fractured and limonite stained						29				.42	37	7	35	36	5	6	.65	1.9
3847-B	" "	40' SW of 3847	Coarse grained granite, limonite and hematite staining						34				.82	111	9	65	42	5	5	2.82	3.1
3847-C	" "	60' SW of 3847	Hem. lim. stained cse. gr. granite						33				.95	22	7	21	37	2	2	.91	2.2
3847-D	" "	80' SW of 3847	Sample from roadbed across adit limonite stained granite						28				.55	41	15	31	34	3	3	1.26	2.5
3847-E	" "	100' SW of 3847	Cse. gr. granite w/limonite stained fractures						11				1.13	104	7	186	92	5	14	.31	3.5
3847-F	" "	120' SW of 3847	" " " "						9				8.43	34	8	58	32	4	4	.25	2.4
3847-G	" "	140' SW of 3847	Cse. grained granite w/minor limonite						11				.63	56	8	75	61	7	4	.24	3.0

1 VALUES IN PPM EXCEPT "TOTAL BARIUM" WHICH IS IN %.
2 COPPER STATE ANALYTICAL, TUCSON.
3 U.S. BORAX RESEARCH CENTER, ANAHEIM.

CORN & AHERN
CONSULTING GEOLOGISTS
TUCSON, ARIZONA

APPENDIX A

SIEVE TEST
Gold Basin Drill Cuttings
Mohave County, Arizona

Sieve tests were run on selected samples representing the anomalous and mineralized intervals in the two best holes from the recent drilling at Gold Basin. The results, summarized on Table 1 suggest that the gold values contained in the more readily captured coarse fraction (>80 mesh) are equal to or sometimes greater than the gold content of the fine fraction (<80 mesh), which is more readily lost from the sample collection system.

The improved recovery of fines by a reverse circulation drill is illustrated by comparing the percentage of fines to coarse from the Gold Basin drilling to that from other projects where conventional drilling methods were used. The reverse circulation drill at Gold Basin produced samples containing from 10% to 30% <80 mesh material where as samples from a conventional rig on another project contained from 2.6% to 17% <80 mesh material. The suggestion here is that the conventional drilling system lost from 10% to 20% of the fines.

The above comments and the data on Table 1 indicate that while loss of fines was not a problem at Gold Basin, it would not have significantly affected the results if fines had been lost.

Table 1. Sieve Test - Gold Basin Drill Cuttings Mohave County, Arizona

Drill Hole	Interval	Size Distribution % >80	Size Distribution % <80	Gold Distribution >80 PPM Au	Gold Distribution >80 % Total	Gold Distribution <80 PPM Au	Gold Distribution <80 % Total	Total Gold Calc. Head PPM Au	Total Gold Assay Head PPM Au
GB-5	80-90	71.0	29.0	.05	52.5	.11	47.5	0.07	.50
	90-100	81.4	18.6	<.02	98.0	.05	2.0	0.05	.06
	100-110	82.0	18.0	.72	95.9	.14	4.1	0.61	.21
	110-120	81.4	18.6	.47	79.2	.44	20.8	0.48	.24
	120-130	76.8	23.2	.63	88.8	.27	11.2	0.54	.55
GB-7	0-5	88.1	11.9	1.05	89.8	1.0	10.2	1.03	1.61
	60-65	83.1	16.9	10.2	96.2	2.31	3.8	8.80	2.69
	65-70	79.9	20.1	1.86	93.4	.54	6.6	1.59	.78
	70-75	78.5	21.5	1.26	88.7	.47	11.3	1.11	1.03
	125-130	82.0	18.0	.08	68.0	.17	32.0	0.10	.13
	130-135	74.2	25.8	2.21	94.3	.38	5.7	1.73	1.76
	135-140	78.4	21.6	1.34	80.8	1.14	19.2	1.30	1.71
	140-145	81.8	18.2	1.77	91.6	.72	8.4	1.58	.67
	145-150	68.3	31.7	.45	76.2	<.02	23.8	0.40	.58

SUPPLEMENTAL REPORT

GOLD BASIN PROJECT

P&LM CLAIM AREA

SECTION 4, T.27N., R.18W.
MOHAVE COUNTY, ARIZONA

WHC JR. COPY

FOR

SFP MINERALS CORPORATION

JULY 1981

CONTENTS

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I.	INTRODUCTION	1
II.	SUMMARY AND CONCLUSION	2
III.	CHECK-ASSAY WORK	3
IV.	GEOCHEMICAL STUDIES	4

EXHIBITS:

Section 0+00N - Plot of copper geochemical values
Scale: 1 inch = 50 feet

Section 0+00N - Plot of lead geochemical values
Scale: 1 inch = 50 feet

Section 0+00N - Plot of zinc geochemical values
Scale: 1 inch = 50 feet

Section 300W - Plot of copper geochemical values
Scale: 1 inch = 50 feet

Section 300W - Plot of lead geochmical values
Scale: 1 inch = 50 feet

Section 300W - Plot of zinc geochemical values
Scale: 1 inch = 50 feet

APPENDIX I

Gold-silver check-assays and copper-lead-zinc geochemical assays.

APPENDIX II

Assay Certificates

I.

INTRODUCTION

A report titled "Gold Basin Project, P&LM Claim Area, Section 4, T.27N., R.18W., Mohave County, Arizona" was submitted to SFP Minerals Corporation in May 1981. The report detailed a 3491-foot hammer-drilling program completed in March 1981 on the gold-silver prospect.

Additional work, including check gold-silver assays and some geochemical analyses for copper, lead and zinc, has subsequently been completed and is the subject of this supplemental report.

Acknowledgment is made to Mr. William H. Crutchfield, Jr., Manager of Exploration, SFP Minerals Corporation, for his assistance.

II.

SUMMARY AND CONCLUSION

1. Check-assay work by Union Assay Office for gold and silver on 80 sample pulps has confirmed the earlier assay work by Jacobs Assay Office.

2. Geochemical analyses for copper, lead and zinc on 110 samples shows the area to be anomalous in lead, with several values being above 1000 ppm. Copper and zinc are not anomalous.

It is concluded that the P&LM prospect contains anomalous concentrations of gold, silver and lead. The significance of this mineralization will require further knowledge of the structural geology of the area.

Respectfully submitted,

CHAPMAN, WOOD AND GRISWOLD, INC.

Douglas F. Irving

Douglas F. Irving, P. Eng.

July 21, 1981

III.

CHECK-ASSAY WORK

Eighty assay pulps from 3 drill-holes were submitted to Union Assay Office, Salt Lake City, Utah, for check gold-silver analyses by fire-assay techniques. The 3 holes were GB-2, GB-10 and GB-13. Basic agreement was achieved with the earlier results obtained from Jacobs Assay Office, Tucson, Arizona, viz. that only minor quantities of gold and silver occur in the area drilled. Assays from Union Assay Office are typically trace of gold and no silver, whereas comparable assays from Jacobs Assay Office show, on average, 0.003 to 0.020 oz. Au per ton and 0.10 to 0.20 oz. Ag per ton. Some of this difference lies in the fact that Union Assay Office uses a 1/2-assay ton sample (14.584 grams) for the fire assay versus the 1-assay ton sample (29.167 grams) used by Jacobs Assay Office, the latter providing more accuracy.

Comparative assays are in Appendix I and assay certificates from Union Assay Office are in Appendix II.

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IV.

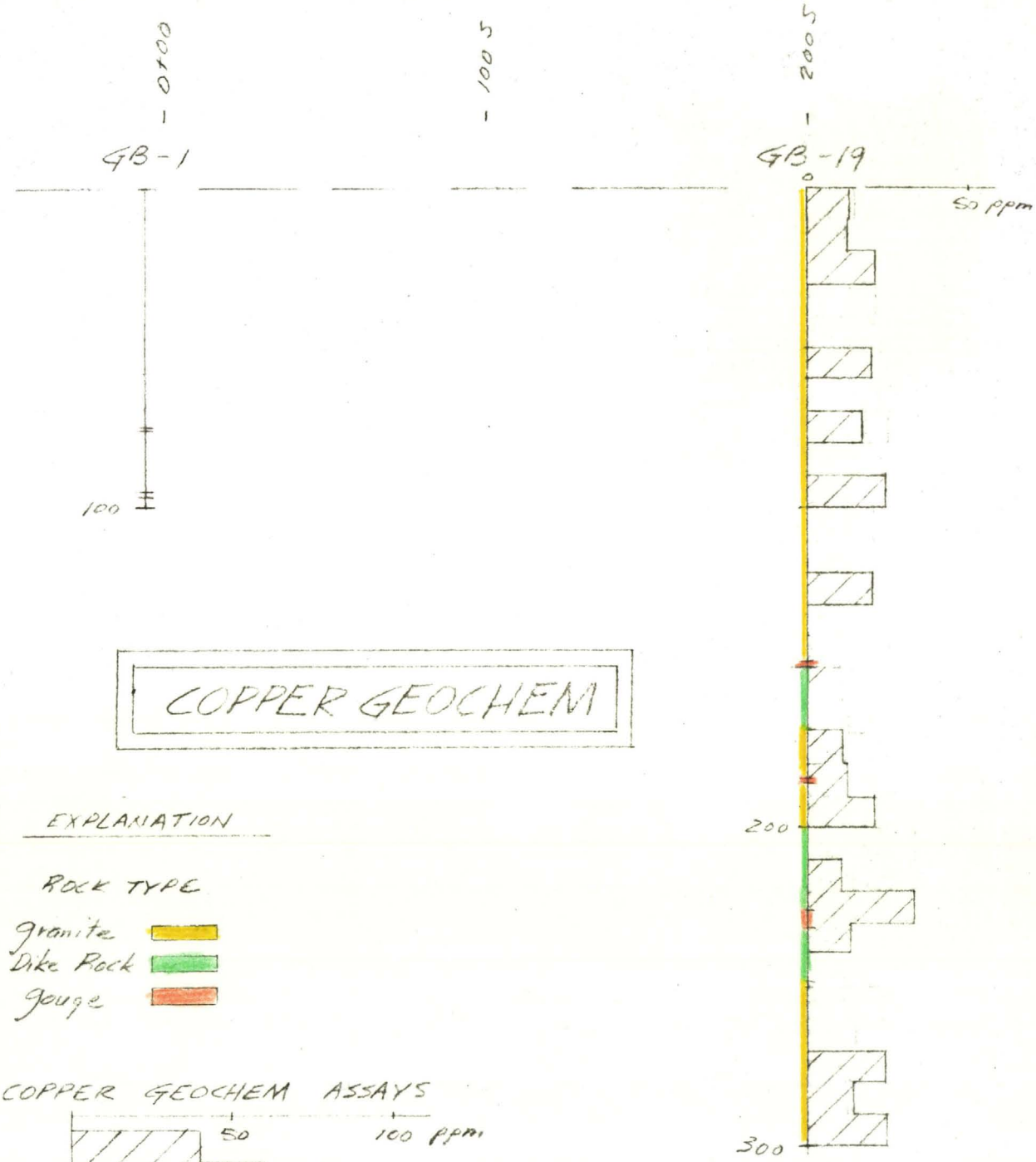
GEOCHEMICAL STUDIES

The presence of possible secondary lead minerals on the various prospect dumps resulted in a limited program of geochemical trace-element analyses. Copper, lead and zinc were the only elements considered for the study. Four drill-holes were selected, viz. GB-2, GB-10, GB-13, and GB-19, for analytical work which was performed by Jacobs Assay Office, Tucson, Arizona. A total of 110 samples were analyzed, each sample corresponding to a 10-foot interval.

The tabulated data are presented in Appendix I and assay certificates are in Appendix II. The data are plotted on drill-hole cross-sections - Section 0+00N and Section 300W.

Values for lead show anomalous conditions, with a number of 10-foot intervals assaying more than 1000 ppm. The peak lead value (4800 ppm) occurs at the bottom of Hole GB-10 and this hole, in general, is the most anomalous for lead.

Copper and zinc values are not anomalous. The upper 50 feet of Hole GB-13 contains the highest copper values, with a peak value of 104 ppm. The same zone also contains the highest zinc values, the peak value being 168 ppm.



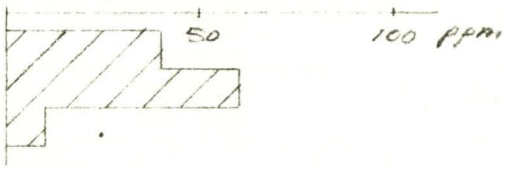
COPPER GEOCHEM

EXPLANATION

ROCK TYPE

Granite
Dike Rock
Gouge

COPPER GEOCHEM ASSAYS



BAR GRAPH SCALE: 50 ppm/INCH
(< 10 ppm plotted as zero)

SFP MINERALS CORP
GOLD BASIN PROJECT
Sec. 4, T. 27N., R. 18W.
Mohave County, Arizona

SECTION 200 W

SCALE: 1 INCH = 50 FT.

Chapman, Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981

EXPLANATION

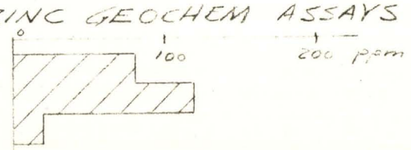
ROCK TYPE

Granite

Dike Rock

Gouge

ZINC GEOCHEM ASSAYS



BAR GRAPH SCALE: 100 ppm / inch

ZINC GEOCHEM

SECTION 0+00N

SCALE: 1 INCH = 50 FT

SFP MINERALS CORPORATION

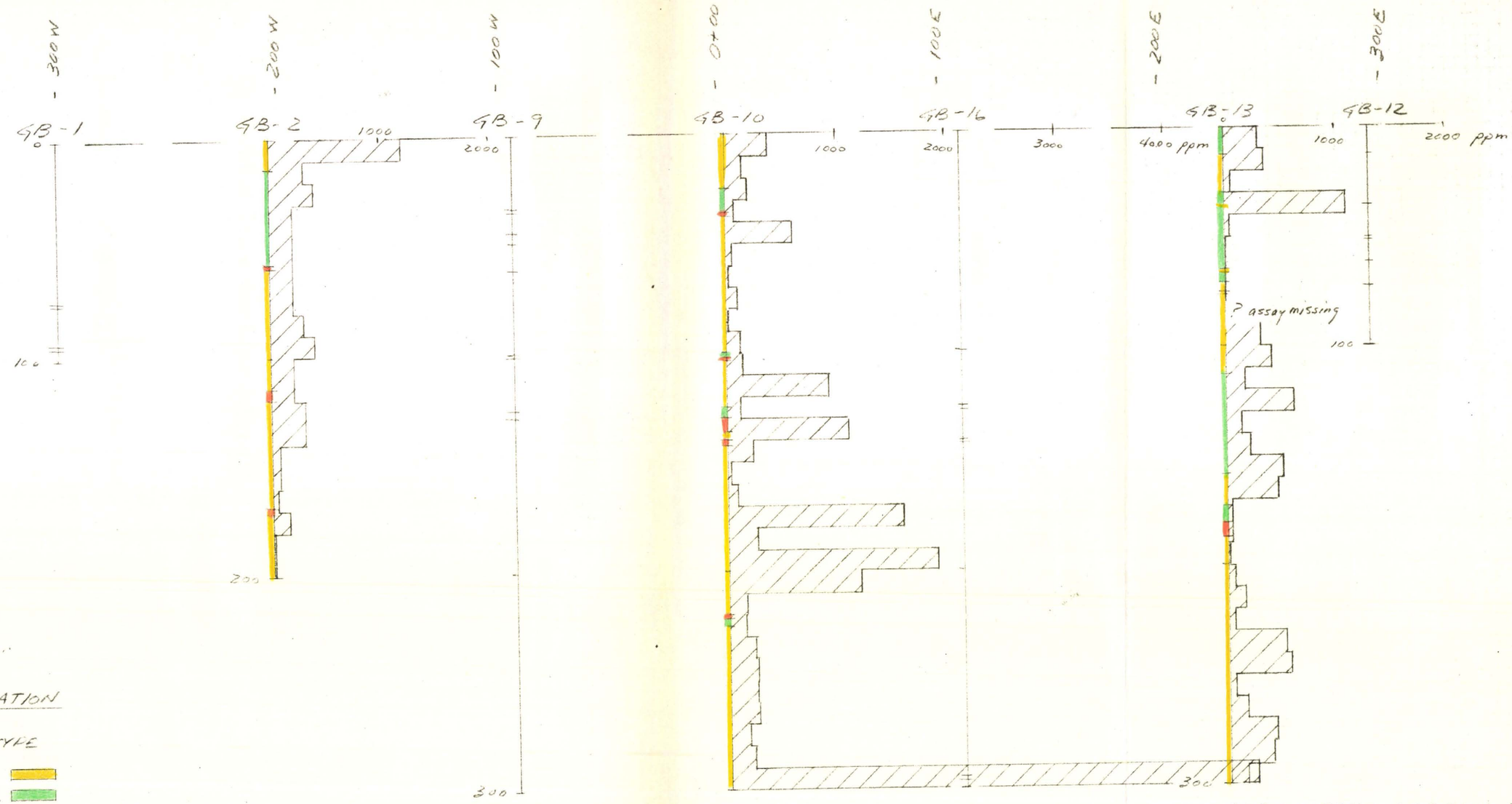
GOLD BASIN PROJECT

Sec. 4, T. 27N., R. 18W.

Mohave County, Arizona

Chapman, Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981

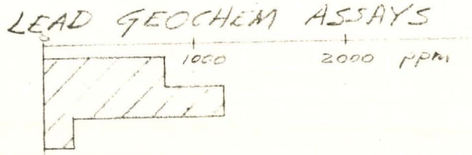


EXPLANATION

ROCK TYPE

Granite
Dike Rock
Gouge

LEAD GEOCHEM ASSAYS



BAR GRAPH SCALE : 1000 ppm / inch

LEAD GEOCHEM

SECTION 0+00 N

SCALE : 1 INCH = 50 FT.

SFP MINERALS CORPORATION

GOLD BASIN PROJECT

Sec. 4, T. 27 N., R. 18 W.

Mohave County, Arizona

Chapman, Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981

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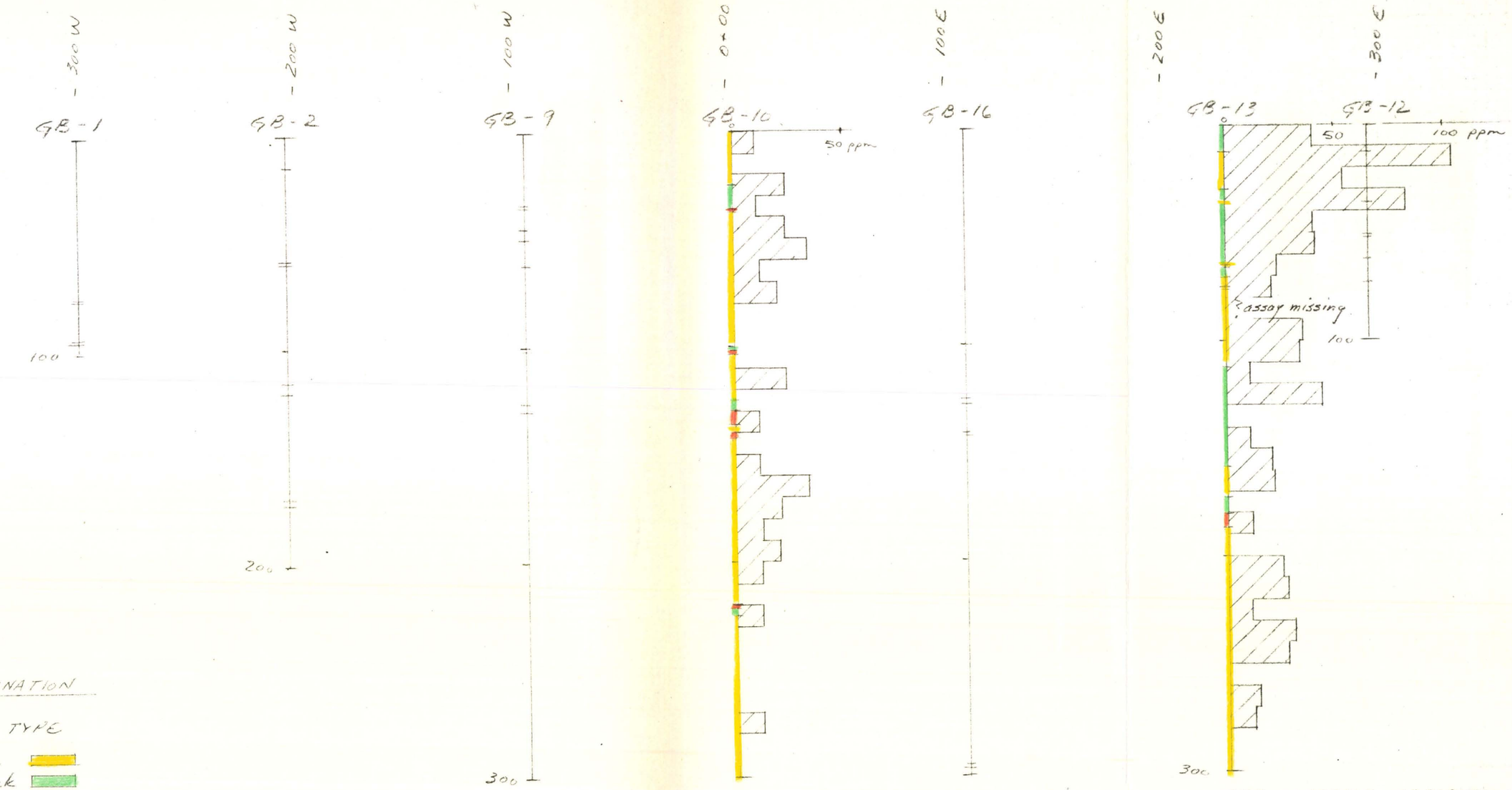
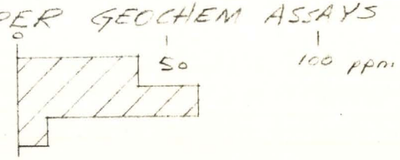


EXPLANATION

ROCK TYPE

Granite
Dike Rock
Gouge

COPPER GEOCHEM ASSAYS



BAR GRAPH SCALE: 50 ppm/inch
(< 10 ppm plotted as zero)

COPPER GEOCHEM

SECTION 0+00N

SCALE: 1 INCH = 50 FT.

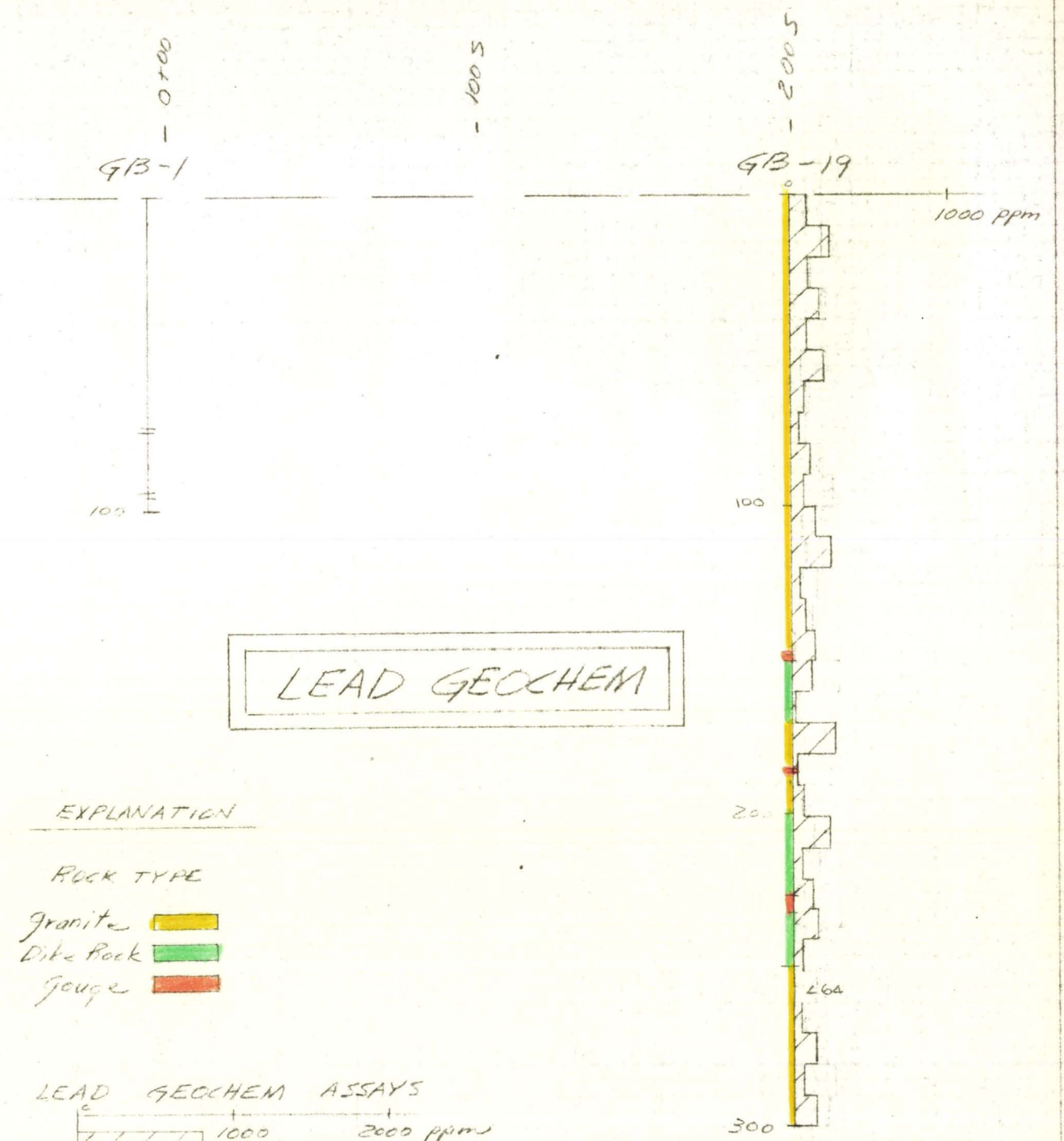
SFP MINERALS CORPORATION

GOLD BASIN PROJECT

Sec. 4, T. 29N., R. 18W.
Mohave County, Arizona

Chapman, Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981



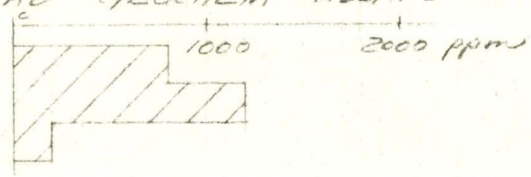
LEAD GEOCHEM

EXPLANATION

ROCK TYPE

Granite
Dike Rock
Gouge

LEAD GEOCHEM ASSAYS



BAR GRAPH SCALE: 1000 ppm / INCH

SECTION 300W

SCALE: 1 INCH = 50 FT.

SFP MINERALS CORP.

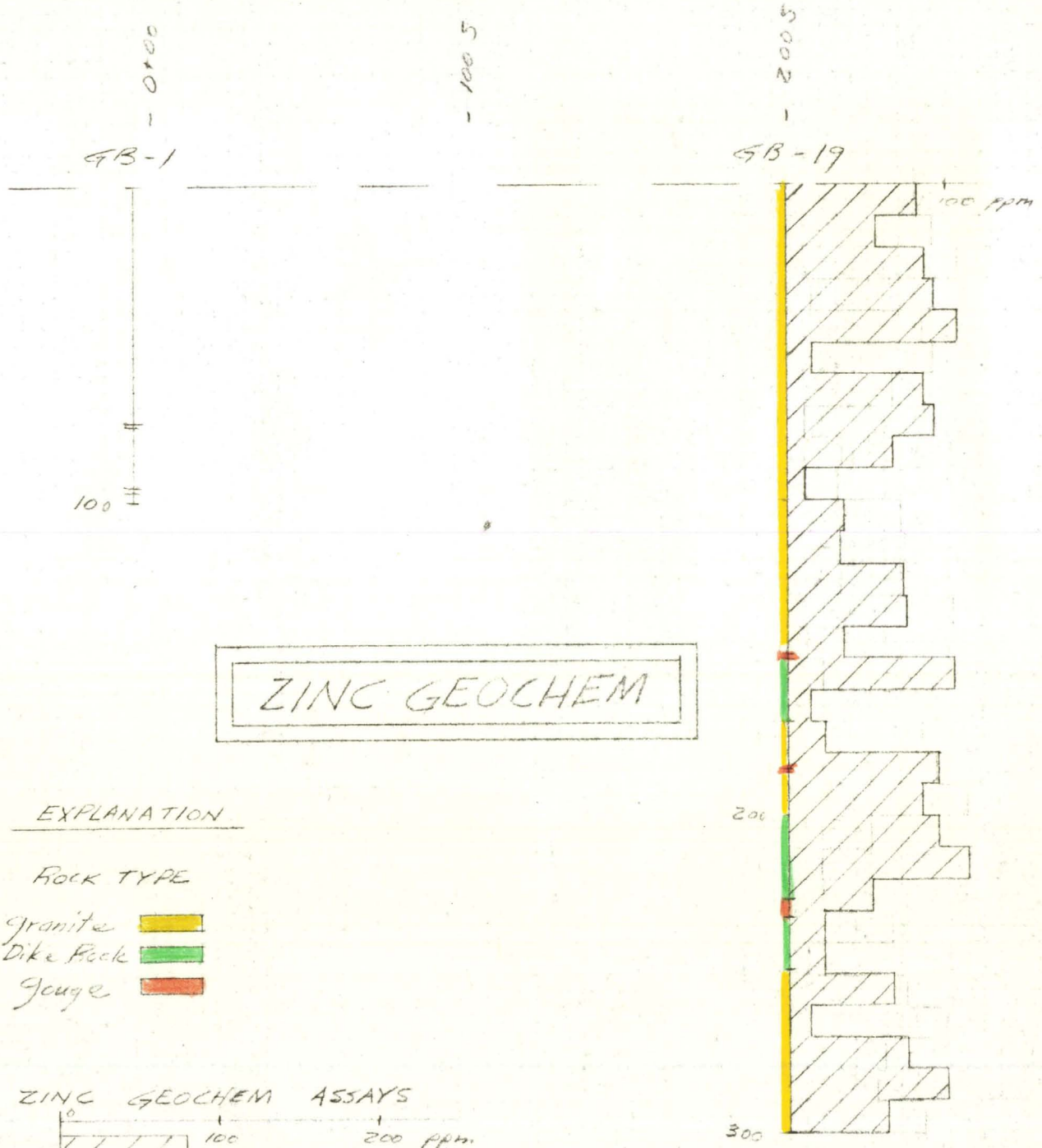
GOLD BASIN PROJECT

Sec. 4, T. 27N., R. 18 W.

Mohave County, Arizona

Chapman, Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981



ZINC GEOCHEM

EXPLANATION

Rock TYPE

Granite
Dike Rock
Gouge

ZINC GEOCHEM ASSAYS

0 100 200 ppm

BAR GRAPH SCALE: 100 ppm/INCH

SECTION 300 W

SCALE: 1 INCH = 50 FT.

SFP MINERALS CORP.

GOLD BASIN PROJECT

Sec. 4, T. 27N., R. 18 W.

Mohave County, Arizona

Chapman Wood & Griswold, Inc.
Albuquerque, New Mexico

June, 1981

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APPENDIX I

MINE SFP MINERALS GOLD BASIN PROJECT; LEE CLAIMS

DESCRIPTION Au and Ag check assays; Cu, Pb and Zn geochem. assays.

DATE	SAMPLE	LOCATION	UNION ASSAY Au OZ/TON	UNION ASSAY Ag OZ/TON	Cu ppm	Pb ppm	Zn ppm	JACOBS ASSAY Au OZ/TON	JACOBS ASSAY Ag OZ/TON	REMARKS
	4576	GB-2 0-10	0.020	0.1	54	1200	74	0.044	0.15	SHEET 1 OF 6
	4577	10-20	.010	0.1	60	300	76	.035	.20	
	4578	20-30	Tr.	Nil	61	400	103	.016	.10	
	4579	30-40	Tr.	Nil	54	200	94	.030	.10	
	4580	40-50	Tr.	Nil	61	200	62	.007	<.05	
	4581	50-60	Tr.	Nil	56	200	77	.047	.40	
	4582	60-70	Tr.	Nil	24	200	60	.021	.10	
	4583	70-80	Tr.	Nil	63	200	10	.018	<.05	
	4584	80-90	Tr.	0.1	57	300	34	.025	.30	
	4585	90-100	Tr.	0.1	40	400	<10	.014	<.05	
	4586	100-110	Tr.	0.1	135	200	12	.014	.15	
	4587	110-120	Tr.	0.1	154	200	54	.020	.20	
	4588	120-130	Tr.	Nil	176	300	76	.018	.05	
	4589	130-140	Tr.	Nil	64	300	54	.012	.10	
	4590	140-150	Tr.	Nil	94	72	43	.005	.10	
	4591	150-160	Tr.	0.1	120	70	72	.014	.60	
	4592	160-170	Tr.	Nil	92	55	39	.004	.20	
	4593	170-180	Tr.	Nil	164	146	41	.027	.35	
	4594	180-190	Tr.	Nil	138	<10	70	.004	.10	
	4595	190-200	Nil	Nil	106	<10	31	.042	.20	

Jacobs consistently high vs Union

MINE

DESCRIPTION

DATE	SAMPLE	LOCATION	UNION ASSAY Au OZ/TON	UNION ASSAY Ag OZ/TON	Cu ppm	Pb ppm	Zn ppm	JACOBS ASSAY Au OZ/TON	JACOBS ASSAY Ag OZ/TON	REMARKS
		GB-10								SHEET 2 OF 6
	4301	0-10	Tr.	0.1	10	374	66	Tr.	<.05	
	4302	10-20	0.010	Nil	<10	151	52	0.010	<.05	
	4303	20-30	Tr.	0.1	24	207	73	.005	.05	
	4304	30-40	Tr.	Nil	10	87	46	.037	.05	
	4305	40-50	.010	Nil	24	300	74	Tr.	<.05	
	4306	50-60	Tr.	0.1	34	67	33	Tr.	<.05	
	4307	60-70	Tr.	Nil	12	30	11	Tr.	<.05	
	4308	70-80	Tr.	0.1	20	104	20	Tr.	<.05	
	4309	80-90	Tr.	0.1	<10	22	36	.010	.05	
	4310	90-100	Tr.	0.1	<10	124	31	Tr.	<.05	
	4311	100-110	Tr.	0.1	<10	146	46	.010	.05	
	4312	110-120	Tr.	Nil	24	909	54	.010	.10	
	4313	120-130	Tr.	Nil	<10	108	41	Tr.	.05	
	4314	130-140	Tr.	Nil	11	1100	84	.002	.10	
	4315	140-150	Tr.	Nil	<10	228	98	Tr.	<.05	
	4316	150-160	Tr.	Nil	11	21	21	Tr.	<.05	
	4317	160-170	Tr.	Nil	33	83	20	.004	.05	
	4318	170-180	Tr.	Nil	21	1600	83	.006	<.05	
	4319	180-190	Tr.	0.1	12	254	40	.005	<.05	

MINE

DESCRIPTION

DATE	SAMPLE	LOCATION	UNION ASSAY Au oz/ton	UNION ASSAY Ag oz/ton	Cu ppm	Pb ppm	Zn ppm	JACOBS ASSAY Au oz/ton	JACOBS ASSAY Ag oz/ton	REMARKS
		GB-10 (cont.)								SHEET 3 OF 6
	4320	190-200	Tr.	0.1	20	1900	71	0.010	0.10	
	4321	200-210	Tr.	0.1	12	1200	60	.010	.05	
	4322	210-220	Tr.	0.2	<10	167	28	.002	.10	
	4323	220-230	Tr.	0.1	12	153	<10	.005	<.05	
	4324	230-240	Tr.	Nil	<10	222	11	.010	.50	
	4325	240-250	Tr.	0.1	<10	257	<10	Tr.	.20	
	4326	250-260	Tr.	0.1	<10	260	12	Tr.	.10	
	4327	260-270	Tr.	0.1	<10	254	<10	.015	.90	
	4328	270-280	Tr.	0.1	12	187	<10	Tr.	.30	
	4329	280-290	Tr.	Nil	<10	202	21	Tr.	.10	
	4330	290-300	Tr.	Nil	<10	4800	20	.005	.20	
		GB-13								
	4711	0-10	Nil	Nil	40	310	168	0.004	0.20	
	4712	10-20	Tr.	Nil	104	350	104	.004	.20	
	4713	20-30	0.010	Nil	54	51	74	.003	.15	
	4714	30-40	Tr.	Nil	83	1100	160	.010	.40	
	4715	40-50	Tr.	0.1	40	46	143	Tr.	<.05	
	4716	50-60	Tr.	Nil	41	21	156	.005	.30	
	4717	60-70	Tr.	Nil	23	17	92	Tr.	.25	

MINE

DESCRIPTION

DATE	SAMPLE	LOCATION	UNION ASSAY Au OZ/TON	UNION ASSAY Ag OZ/TON	Cu ppm	Pb ppm	Zn ppm		JACOBS ASSAY Au OZ/TON	JACOBS ASSAY Ag OZ/TON	REMARKS
		GB-13 cont.									SHEET 4 OF 6
	4718	70-80	Tr.	Nil	21	21	54		Tr.	0.35	discrepancies
	4719	80-90	Tr.	Nil	(No	ASSAYS)			Tr.	.40	"
	4720	90-100	Tr.	Nil	34	304	84		Tr.	.35	NB "
	4721	100-110	Tr.	Nil	33	410	64		Tr.	.05	
	4722	110-120	Tr.	Nil	10	186	104		0.002	.10	
	4723	120-130	0.025	Nil	43	601	72		Tr.	<.05	
	4724	130-140	Tr.	Nil	<10	124	90		.002	.05	
	4725	140-150	Tr.	Nil	10	203	70		.005	.05	
	4726	150-160	Tr.	Nil	20	500	104		.010	.10	
	4727	160-170	Tr.	Nil	21	464	41		.010	<.05	
	4728	170-180	Tr.	Nil	<10	24	106		.005	.15	
	4729	180-190	Tr.	Nil	11	21	122		Tr.	<.05	
	4730	190-200	Tr.	0.1	<10	10	78		Tr.	0.10	
	4731	200-210	Tr.	Nil	24	64	66		.007	<.05	
	4732	210-220	Tr.	Nil	27	146	76		.010	<.05	
	4733	220-230	Tr.	Nil	10	63	99		Tr.	<.05	
	4734	230-240	Tr.	Nil	30	503	87		.004	.10	
	4735	240-250	Tr.	Nil	27	568	51		.005	<.05	
	4736	250-260	Tr.	Nil	<10	41	84		.009	.10	

MINE

DESCRIPTION

DATE	SAMPLE	LOCATION	UNION ASSAY Au OZ/TON	UNION ASSAY Ag OZ/TON	Cu ppm	Pb ppm	Zn ppm	JACOBS ASSAY Au OZ/TON	JACOBS ASSAY Ag OZ/TON	REMARKS
		GB-13 cont.								SHEET 5 OF 6
	4737	260-270	Tr.	Nil	13	140	88	Tr.	.05	
	4738	270-280	Tr.	Nil	11	415	50	Tr.	<.05	
	4739	280-290	Tr.	Nil	<10	384	61	Tr.	<.05	
	4740	290-300	Tr.	Nil	<10	163	72	Tr.	<.05	
		GB-19								
	4826	0-10			13	100	81			
	4827	10-20			12	240	54			
	4828	20-30			21	101	86			
	4829	30-40			<10	193	91			
	4830	40-50			<10	103	107			
	4831	50-60			20	206	14			
	4832	60-70			<10	83	84			
	4833	70-80			17	55	91			
	4834	80-90			<10	106	66			
	4835	90-100			24	84	10			
	4836	100-110			<10	154	33			
	4837	110-120			<10	254	31			
	4838	120-130			20	60	71			
	4839	130-140			<10	84	73			

MINE

DESCRIPTION

DATE	SAMPLE	LOCATION				Cu ppm	Pb ppm	Zn ppm				REMARKS
		GB-19 cont.										SHEET 6 OF 6
	4840	140-150				<10	141	32				
	4841	150-160				<10	121	104				
	4842	160-170				<10	10	12				
	4843	170-180				10	284	21				
	4844	180-190				12	27	94				
	4845	190-200				21	62	84				
	4846	200-210				<10	225	93				
	4847	210-220				10	47	111				
	4848	220-230				33	106	51				
	4849	230-240				13	150	20				
	4850	240-250				<10	64	21				
	4851	250-260				<10	<64	64				
	4852	260-270				<10	48	12				
	4853	270-280				24	124	74				
	4854	280-290				14	64	99				
	4855	290-300				24	121	60				

APPENDIX II

JUN 25 1981

Telephone 363-3302

Hand Sample Serial 36556-36582

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

BRYANT L. LARSEN, President
G. P. WILLIAMS, Vice President
JAMES G. STRATTON, Secretary
A. S. JOLLIFFE, Treasurer
P. O. Box 1528
Salt Lake City, Utah 84110
(801) 363-3302

Mine Chapman, Wood, Griswold, Inc.
4015 Carlisle Vlvd. NE Suite E
Albuquerque, NM 87107

RESULTS PER TON OF 2000 POUNDS

June 23, 1981

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per
4301A	trace	0.1									
4302A	0.010	none									
4303A	trace	0.1									
4304A	trace	none									
4305A	0.010	none									
4306A	trace	0.1									
4307A	trace	none									
4308A	trace	0.1									
4309A	trace	0.1									
4310A	trace	0.1									
4311A	trace	0.1									
4312A	trace	none									
4313A	trace	none									
4314A	trace	none									
4315A	trace	none									
4316A	trace	none									
4317A	trace	none									
4318A	trace	none									
4319A	trace	0.1									
4320A	trace	0.1									
4321A	trace	0.1									
4322A	trace	0.2									
4323A	trace	0.1									
4324A	trace	none									
4325A	trace	0.1									
4326A	trace	0.1									
4327A	trace	0.1									

Telephone 363-3302

Hand Sample Serial 36583-37009

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

BRYANT L. LARSEN, President
G. P. WILLIAMS, Vice President
JAMES G. STRATTON, Secretary
A. S. JOLLIFFE, Treasurer
P. O. Box 1528
Salt Lake City, Utah 84110
(801) 363-3302

Mine Chapman, Wood & Griswold, Inc.
4015 Carlisle Blvd. Suite E
Albuquerque, NM 87107

RESULTS PER TON OF 2000 POUNDS

June 23, 1981

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	P
4328A	trace	0.1									
4329A	trace	none									
4330A	trace	none									
4576A	0.020	0.1									
4577A	0.010	0.1									
4578A	trace	none									
4579A	trace	none									
4580A	trace	none									
4581A	trace	none									
4582A	trace	none									
4583A	trace	none									
4584A	trace	0.1									
4585A	trace	0.1									
4586A	trace	0.1									
4587A	trace	0.1									
4588A	trace	none									
4589A	trace	none									
4590A	trace	none									
4591A	trace	0.1									
4592A	trace	none									
4593A	trace	none									
4594A	trace	none									
4595A	none	none									
4711A	none	none									
4712A	trace	none									
4713A	0.010	none									
4714A	trace	none									

Telephone 363-3302

Hand Sample Serial 37010-37035

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

BRYANT L. LARSEN, President
G. P. WILLIAMS, Vice President
JAMES G. STRATTON, Secretary
A. S. JOLLIFFE, Treasurer
P. O. Box 1528
Salt Lake City, Utah 84110
(801) 363-3302

Mine Chapman, Wood & Griswold, Inc.
4015 Carlisle Blvd. NE Suite E
Albuquerque, NM 87107

RESULTS PER TON OF 2000 POUNDS

June 23, 1981

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Pe
4715A	trace	0.1									
4716A	trace	none									
4717A	trace	none									
4718A	trace	none									
4719A	trace	none									
4720A	trace	none									
4721A	trace	none									
4722A	trace	none									
4723A	0.025	none									
4724A	trace	none									
4725A	trace	none									
4726A	trace	none									
4727A	trace	none									
4728A	trace	none									
4729A	trace	none									
4730A	trace	0.1									
4731A	trace	none									
4732A	trace	none									
4733A	trace	none									
4734A	trace	none									
4735A	trace	none									
4736A	trace	none									
4737A	trace	none									
4738A	trace	none									
4739A	trace	none									
4740A	trace	none									

1435 S. 10th AVE.

~~P. O. BOX 1889~~

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

DUPLICATE

Certificate No. 61247

TUCSON, ARIZONA 85706 29 May 1981

Sample Submitted by Mr. Chapman-Wood Griswold

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay (PPM)	LEAD Per cent Wet Assay (PPM)	ZINC Per cent Wet Assay (PPM)	..... Per cent Wet Assay
4301		$		10	374	166	
2				<10	151	52	
3				24	207	73	
4				10	87	46	
5				24	300	74	
6				34	67	33	
7				12	30	11	
8				20	104	20	
9				<10	22	36	
10				<10	124	31	
11				<10	146	46	
12				24	909	54	
13				<10	108	41	
14				11	.11%	84	
15				<10	228	98	
16				11	21	21	
17				33	33	20	
18				21	.16%	83	
19				12	254	40	
20				20	.19%	71	
21				12	.10%	60	
22				<10	167	28	
23				12	153	<10	
24				<10	222	11	
25				<10	257	<10	
26				<10	260	12	
27				<10	254	<10	
28				12	187	<10	
29				<10	202	21	
30				<10	48%	20	
4711				40	310	168	
12				104	350	104	
13				54	51	74	
14				83	.11%	160	
15				40	46	143	
16				41	21	156	
17				23	17	92	
18				21	21	54	
19							

* ~~Gold Figured $35.00 per oz. Troy.~~ < = Less THAN

Very respectfully,

Charges $ 282.75

1435 S. 10th AVE.

~~P. O. BOX 1889~~

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

DUPLICATE

Certificate No. 61248

TUCSON, ARIZONA 85702 13 29 MAY 1981

Sample Submitted by Mr. Chapman - Wood Griswold

SAMPLE MARKED	GOLD Ozs. per ton ore X	GOLD Value per ton ore * X	SILVER Ozs. per ton ore X	COPPER Per cent Wet Assay (PPM)	LEAD Per cent Wet Assay (PPM)	ZINC Per cent Wet Assay (PPM)	Per cent Wet Assay X
4720		$		34	304	84	
21				33	410	64	
22				10	186	104	
23				43	601	72	
24				<10	124	90	
25				10	203	70	
26				20	500	104	
27				21	464	41	
28				<10	24	106	
29				11	21	122	
30				<10	10	78	
31				24	64	66	
32				27	146	76	
33				10	63	99	
34				30	503	87	
35				27	568	51	
36				<10	41	84	
37				13	140	88	
38				11	415	50	
39				<10	384	61	
40				<10	163	72	
4826				13	100	81	
29				<10	193	91	
30				<10	103	107	
31				20	206	14	
32				<10	53	84	
33				17	55	91	
34				<10	106	66	
35				24	84	10	
36				<10	154	33	
37				<10	254	31	
38				20	60	71	
39				<10	54	73	
40				<10	141	32	
41				<10	121	104	
42				<10	10	12	
43				10	254	21	
44				12	97	74	
45 45				21	62	84	

* Gold Figured ~~$35.00 per oz. Troy~~ < = Less Than

Very respectfully,

Charges $ 282.75

1435 S. 10th AVE.

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

Certificate No. 61249

TUCSON, ARIZONA 85713 29-MAY 1981

Sample Submitted By Mr. CHAPMAN - Wood Griswold

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	LEAD Per cent Wet Assay	COPPER Per cent Wet Assay	ZINC Per cent Wet Assay	... Per cent Wet Assay
4846		$		225	<10	93	
47				47	10	111	
48				106	33	51	
49				150	13	20	
50				64	<10	21	
51				164	<10	64	
52				48	<10	12	
53				124	24	74	
54				64	14	99	
55				151	24	60	
4855 27				240	12	54	
4855 28				101	21	86	

< = Less Than

Charges $ 87.00

Very respectfully,

1435 S. 10th AVE. JUL 10 1981

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

Certificate No. 61291

TUCSON, ARIZONA 85713 15 June 1981

Sample Submitted By Mr. Chapman, Wood + Griswold

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore*	SILVER Ozs. per ton ore	LEAD Per cent Wet Assay	COPPER Per cent Wet Assay	ZINC Per cent Wet Assay	Per cent Wet Assay
4576		$		.12%	54	74	
7				.03%	60	76	
8				.04%	61	103	
9				.02%	54	94	
80				.02%	61	62	
1				.02%	56	77	
2				.02%	24	60	
3				.02%	63	10	
4				.03%	57	34	
5				.04%	40	<10	
6				.02%	135	12	
7				.02%	154	54	
8				.03%	176	76	
9				.03%	64	54	
90				72 ppm	94	43	
1				70	120	72	
2				55	92	39	
3				146	164	41	
4				<10	138	70	
5				<10	106	31	

< = Less than

Very respectfully,

Charges $ 145.00

SF Minerals Corp.

INTERNAL CORRESPONDENCE

File
76.0360 T
CHLORIDE
NIPPON MINING

TO	Bill Crutchfield	DATE	March 6, 1984
FROM	Dale Trubey	SUBJECT	Gold Basin Felmont Confidentiality Agreement

Attached are two copies of a Confidentiality Agreement executed by Felmont. If you are still interested in entering into a Joint Farmout Agreement on the Gold Basin properties, please execute both copies and return one copy to Felmont and one copy to me.

Mr. Lewis would like to have access to the available geologic information and I suggest that you contact Mr. Lewis direct and make whatever arrangements are necessary for him to review our geologic data.

Please let me know how you would like to handle.

Dale B. Trubey

DBT:slc
Encl.
cc: R.G. Marvin

SANTA FE

FELMONT OIL CORPORATION

8120 N. Sheridan
Bldg. C, Suite 100

Arvada, Colorado 80003

(303) 428-9644

RECEIVED

MAR - 5 1984

LAND DEPT.

February 27, 1984

Mr. Dale B. Trubey
Director - Land
Santa Fe Mining Inc.
P. O. Box 3588
Albuquerque, New Mexico 87190

Dear Mr. Trubey:

Enclosed are two executed copies of the Confidentiality Agreement for the Gold Basin Prospect of Santa Fe Mining, Inc. The Agreement has been re-typed to delete the original section four and to add wording to part (c) of section three, changes that we agreed to during phone conversations earlier this month.

Please let me know how I may now arrange to get access to the available geologic information for the Gold Basin Prospect.

Sincerely,

FELMONT OIL CORPORATION

Norman F. Lewis

Norman F. Lewis
Geologist

NFL/c
Enclosures

CONFIDENTIALITY AGREEMENT

This Confidentiality Agreement is made and entered into by and between SANTA FE MINING, INC. (hereinafter called "SFM") and FELMONT OIL CORPORATION (hereinafter called "Felmont").

WITNESSETH THAT:

WHEREAS, SFM has an interest in the Gold Basin Prospect located in Mohave County, Arizona, more specifically described in Exhibit A attached hereto and by reference made a part hereof; and

WHEREAS, SFM has developed and obtained certain maps and geological data (hereinafter called "Proprietary Information") with respect to the evaluation of the Gold Basin Prospect; and

WHEREAS, Felmont desires to review the Proprietary Information for the purpose of determining whether to negotiate further with SFM for the purpose of acquiring an interest in or a possible business arrangement regarding the Gold Basin Prospect.

NOW, THEREFORE, in consideration of SFM furnishing the Proprietary Information to Felmont, Felmont hereby agrees as follows:

1. Felmont agrees to keep in confidence and to use its best efforts to prevent disclosure to others of all proprietary information submitted to it by SFM including verbal communications between Felmont and SFM and reports and data prepared by Felmont based upon Proprietary Information and to utilize such information only for internal evaluation and for the determination of the extent of its interest in acquiring an interest in the Gold Basin Prospect. Copies of any such information shall not be made without prior written consent of SFM.

2. Felmont will disclose the Proprietary Information only to its employees and consultants on a "need to know" basis and will inform such persons of its obligation under this Agreement and require such persons to have knowledge of and be bound by and to its obligations hereunder.

3. The obligations stated herein will terminate three years from the date of this Agreement. Such obligations shall not apply to the contents of the Proprietary Information which are (a) presently in the possession of Felmont; (b) presently in the public domain; or (c) disclosed by SFM or others to the public.

4. If negotiations are terminated and no agreement between SFM and Felmont is consumated, Felmont shall immediately return to SFM all Proprietary Information furnished to it without retaining any copies thereof.

5. This Agreement constitutes the entire understanding between the parties hereto with respect to the subject matter indicated above and its terms may not be changed or amended except by an instrument in writing.

6. The agents of SFM and Felmont who sign this Agreement represent and warrant that they have full corporate authorization to execute this Agreement on behalf of their respective employer corporations.

IN WITNESS WHEREOF, the parties have executed this instrument effective as of the 27 day of February, 1984.

FELMONT OIL CORPORATION

by: David A. Rhoades

its: VICE PRESIDENT

SANTA FE MINING, INC.

by: _____

its: _____

STATE OF COLORADO)
ss.
COUNTY OF ADAMS)

The foregoing Agreement was acknowledged before me by DAVID A. RHOADES as VICE PRESIDENT of FELMONT OIL CORP., on this 27TH day of FEBRUARY, 1984.

Bonnie J. Beck
Notary Public

My commission expires:
My Commission expires August 1, 1985

STATE OF)
ss.
COUNTY OF)

The foregoing instrument was acknowledged before me by _____ and _____ as _____ and _____ of _____, on this ____ day of _____, 19____.

_____
Notary Public

My commission expires:
_____

EXHIBIT A
to
CONFIDENTIALITY AGREEMENT
dated

Gold Basin Prospect

All lands lying within Sections 7,8,9,10,11,14,15,16,17,18,19,20,21,22, 23,27,28,29,30,31,32,33 and 34, T28N, R18W and Section 3,4,5 and 6, T27N, R18W, Mohave County, Arizona.

CONFIDENTIALITY AGREEMENT

This Confidentiality Agreement is made and entered into by and between SANTA FE MINING, INC. (hereinafter called "SFM") and FELMONT OIL CORPORATION (hereinafter called "Felmont").

WITNESSETH THAT:

WHEREAS, SFM has an interest in the Gold Basin Prospect located in Mohave County, Arizona, more specifically described in Exhibit A attached hereto and by reference made a part hereof; and

WHEREAS, SFM has developed and obtained certain maps and geological data (hereinafter called "Proprietary Information") with respect to the evaluation of the Gold Basin Prospect; and

WHEREAS, Felmont desires to review the Proprietary Information for the purpose of determining whether to negotiate further with SFM for the purpose of acquiring an interest in or a possible business arrangement regarding the Gold Basin Prospect.

NOW, THEREFORE, in consideration of SFM furnishing the Proprietary Information to Felmont, Felmont hereby agrees as follows:

1. Felmont agrees to keep in confidence and to use its best efforts to prevent disclosure to others of all proprietary information submitted to it by SFM including verbal communications between Felmont and SFM and reports and data prepared by Felmont based upon Proprietary Information and to utilize such information only for internal evaluation and for the determination of the extent of its interest in acquiring an interest in the Gold Basin Prospect. Copies of any such information shall not be made without prior written consent of SFM.

2. Felmont will disclose the Proprietary Information only to its employees and consultants on a "need to know" basis and will inform such persons of its obligation under this Agreement and require such persons to have knowledge of and be bound by and to its obligations hereunder.

3. The obligations stated herein will terminate three years from the date of this Agreement. Such obligations shall not apply to the contents of the Proprietary Information which are (a) presently in the possession of Felmont; (b) presently in the public domain; or (c) disclosed by SFM or others to the public.

4. If negotiations are terminated and no agreement between SFM and Felmont is consumated, Felmont shall immediately return to SFM all Proprietary Information furnished to it without retaining any copies thereof.

5. This Agreement constitutes the entire understanding between the parties hereto with respect to the subject matter indicated above and its terms may not be changed or amended except by an instrument in writing.

6. The agents of SFM and Felmont who sign this Agreement represent and warrant that they have full corporate authorization to execute this Agreement on behalf of their respective employer corporations.

IN WITNESS WHEREOF, the parties have executed this instrument effective as of the 27 day of February, 1984.

FELMONT OIL CORPORATION

by: David A. Phoenix

its: VICE PRESIDENT

SANTA FE MINING, INC.

by: R. D. Marvin

its: Vice President

STATE OF COLORADO)
ss.
COUNTY OF ADAMS)

The foregoing Agreement was acknowledged before me by DAVID A. RHOADES as VICE PRESIDENT of FELMONT OIL CORP., on this 27TH day of FEBRUARY, 1984.

Bonnie J. Beck
Notary Public

My commission expires:
My Commission expires August 1, 1985

STATE OF NEW MEXICO)
ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me by R. G. Marvin and _____ as Vice President and _____ of Santa Fe Mining, Inc., on this 7th day of March, 1984.

_____
Notary Public

My commission expires:
9/19/84

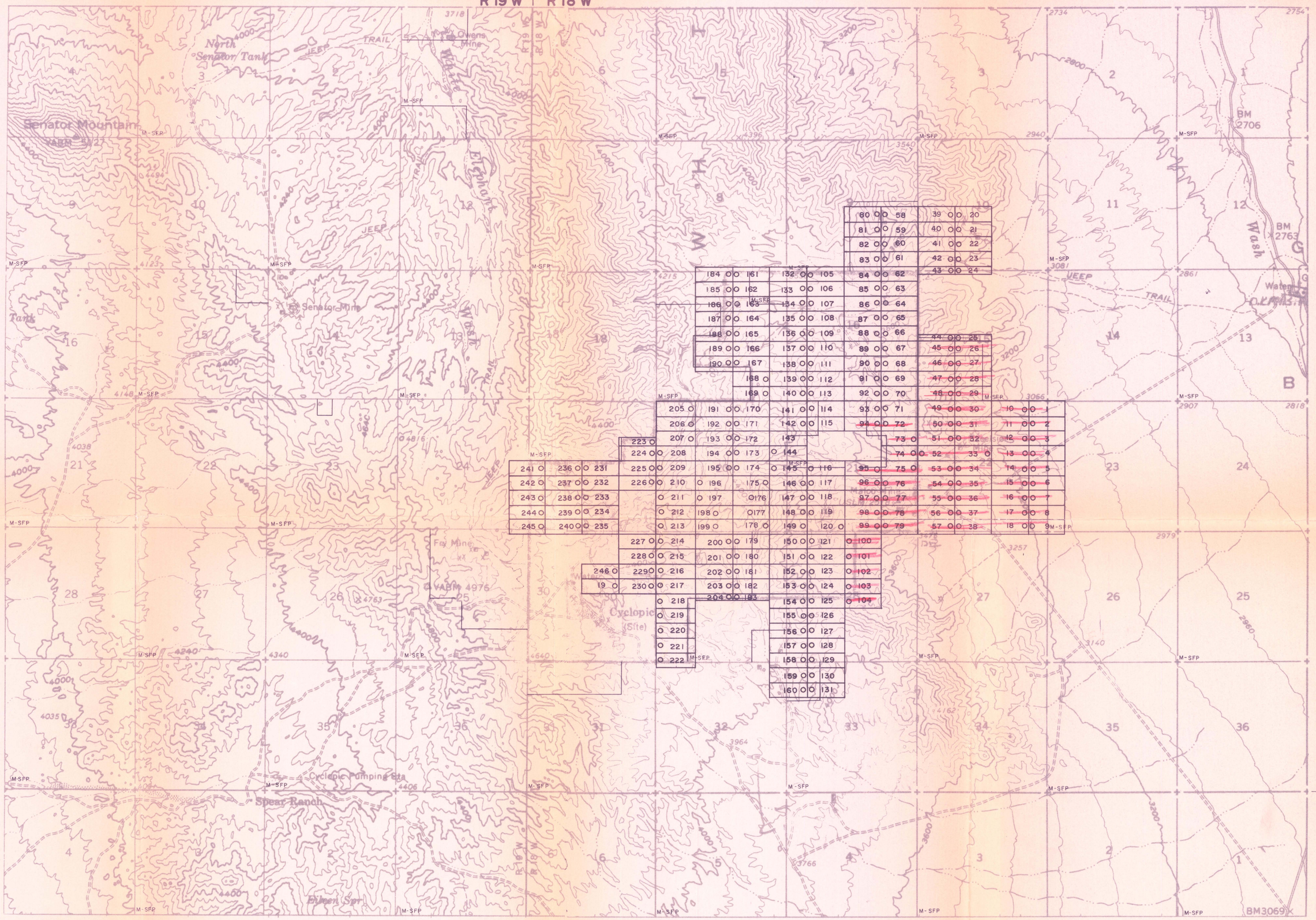
OFFICIAL SEAL
Signature: Faye R. Young
FAYE R. YOUNG
NOTARY PUBLIC - NEW MEXICO
Notary Bond filed with Secretary of State
My Commission Expires: 9/19/85

EXHIBIT A
to
CONFIDENTIALITY AGREEMENT
dated

_____

Gold Basin Prospect

All lands lying within Sections 7,8,9,10,11,14,15,16,17,18,19,20,21,22, 23,27,28,29,30,31,32,33 and 34, T28N, R18W and Section 3,4,5 and 6, T27N, R18W, Mohave County, Arizona.



N
MN
14 1/2°
1" = 2000'

ADVANCE PLAT
SUBJECT TO CHANGE OR CORRECTION
2/7/80

O= LOCATION MONUMENT

ALL CLAIMS ARE 600'x1500' UNLESS OTHERWISE NOTED.

ALL LOCATION MONUMENTS, CORNERS AND END CENTERS ARE MONUMENTED WITH 2"x2"x5' WOODEN POSTS.

ALL LOCATION MONUMENTS ARE OFFSET 10' FROM END CENTERS UNLESS OTHERWISE NOTED.

SURVEY MAP
OF
LODE MINING CLAIMS
WITHIN
TOWNSHIP 28 NORTH, RANGES 18 & 19 WEST, G&SRM
MOJAVE COUNTY, ARIZONA
FOR
ROCKY MOUNTAIN SURVEYORS, INC.
P.O. BOX 14057
ALBUQUERQUE, NEW MEXICO 87191

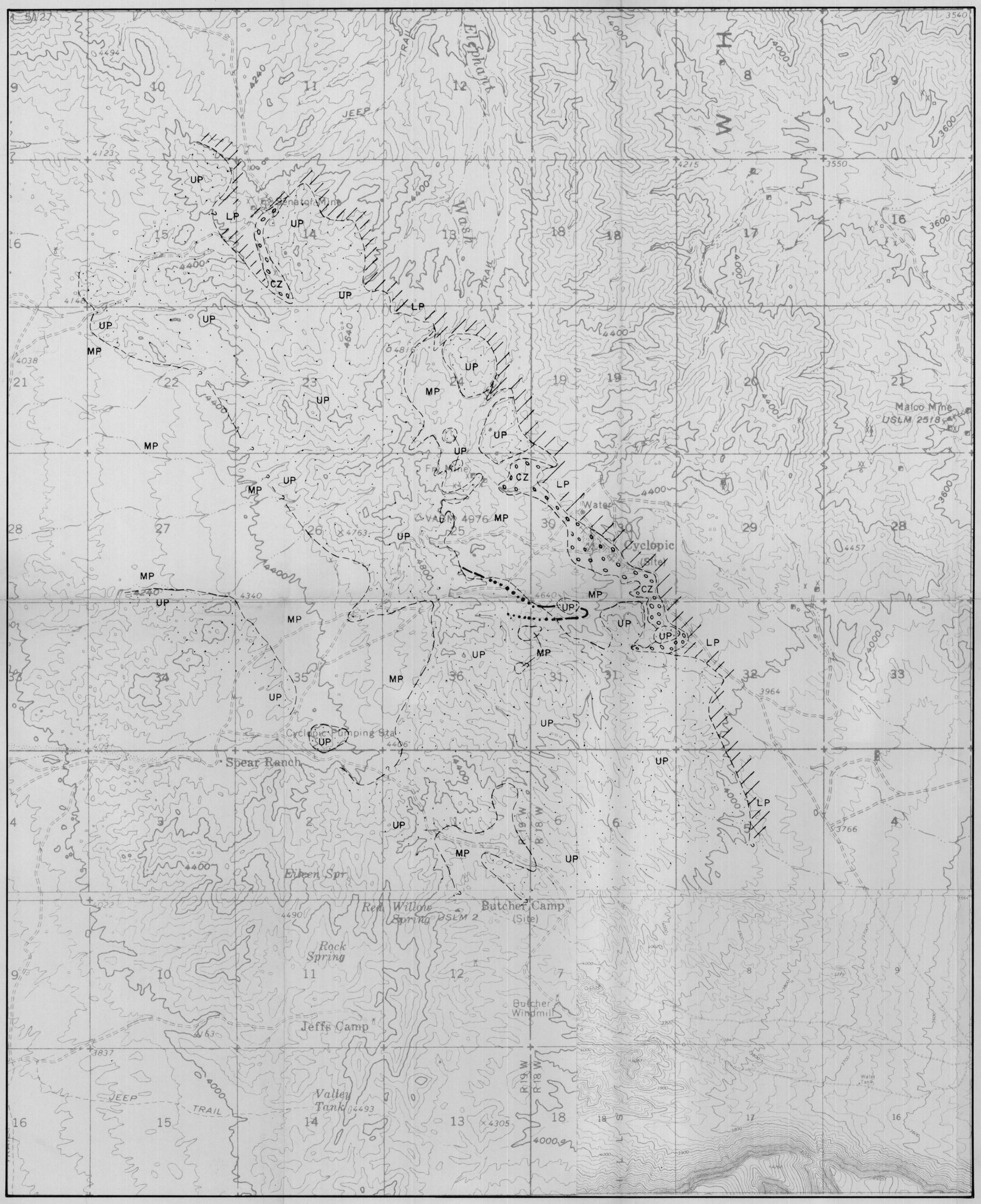
⊙ POL Filed FOR 1985

CRUTCH CLAIMS 1-246

LOCATED -

ADVANCE PLAT
SUBJECT TO CHANGE OR CORRECTION
2/7/80

Survey & Map by: ROCKY MOUNTAIN SURVEYORS, INC. Albuquerque, New Mexico Job No. 8-80



LITHOTECTONIC UNITS

- UP — UPPER PLATE
- MP — MIDDLE PLATE and CRUSHED ZONE
- CZ
- LP — LOWER PLATE
- /// UPPER MARGIN OF LOWER PLATE

PYRITIZED AREA

PROPOSED DRILL HOLE

LITHOTECTONIC MAP
GOLD BASIN DISTRICT
MOHAVE COUNTY, ARIZONA

1" = 2000'

May 1983
Corn & Ahern

PLATE I