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PROSPECT EVALUATION SURVEY

HOWARD CLAIMS AREA

YUMA COUNTY, ARIZONA

For

Mr. Oliver Kilroy

December 1965

by

Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona

INTRODUCTION

At the request of Mr. Oliver Kilroy, New Orleans, Louisiana, Heinrichs Geoexploration Company conducted and completed a magnetic and geochemical survey of the Howard Claims Area, Yuma County, Arizona, during the interim December 3 to 6, 1965.

Eleven simultaneous magnetic and geochemical lines were run, spaced five hundred feet apart, with stations three hundred feet apart, giving a total surface coverage of 550 acres or approximately one mile x 0.9 miles. The main prospect shaft of the area was used as the base point. From this point the traverse line was run East West from a N-S zero line. Line 6 runs through the base point.

The selection of a 300 foot station separation was made to maximize ground coverage per unit time, yet give sufficient data coverage for the area.

The magnetic data was gathered by the use of a Jalander Vertical Componenet magnetometer. Geochemical data was obtained from soil samples analyzed by the atomic absorption technique.

The magnetic data is presented on a grid sheet in contoured form. Geochemical data are shown on grid sheets, each element contoured separately. A total of 194 samples were tested for copper, lead, and zinc. Silver was run on the first 100 samples but results were negative, and therefore, analysis of it was discontinued. Copies of the field notes and atomic absorption data are included.

Heinrichs personnel involved in the field work were Harvey Durand, Geologist, and Steve Durand, field assistant. Interpretation, compilation, and report were by the Tucson GEOEX staff under the supervision of Chris S. Ludwig, Senior Geophysicist.

GEOLOGY

The Howard Claims are part of a large granitic area which is cut by numerous northwest trending volcanic dikes. The dikes range from basic to andesitic in composition. The prospects are confined to an intrusive breccia (10" to several feet wide) which strikes N28W, dip 65°E at the main prospect pit. The breccia exhibits hematite and minor copper carbonation stain. In general, the rocks of the area show no visible sulfide mineralization. The coloration of the area seems to be related to the volcanics rather than hydrothermal alteration.

CONCLUSIONS, RECOMMENDATIONS, AND INTERPRETATION

The magnetic anomalies trend northwest and appear to be related to the dikes. The intrusive breccia appears to have no magnetic expression. No anomalies are noted which give any suggestions for economic possibilities. In general, geochemical data for copper, lead, and zinc is background. Several minor anomalies were noted for lead and zinc.

The copper background level is low. A subtle North-South trend is noted, with a minor northwest-southwest trend. There is a slight minor correlation to the prospects, with one high on the prospect trend but it appears too low to be significant.

A background is shown for zinc with one anomaly (240 ppm) occurring in northern portion of the area. This anomaly is somewhat interesting in that it lies to the edge of the survey; a field check to the north of it may be worthwhile. The zinc exhibits a strong northwest-southeast trend with a minor east-west and north-south trend. No direct correlation is noted between the zinc and the prospects.

The lead exhibits four anomalies of minor magnetude (70-90 ppms), all lying northeast of a magnetic high. Two anomalies appear to have direct corrleation with the prospect pits in that they lie along their trend. These anomalies are too low to be given much significance. The lead exhibits a strong northeast-southwest trend.

Based on the weak geochemical anomalism, lack of visible mineralization in the area, and limited size of the mineralized zone as seen in the prospect pits, further work on the property would appear to be extremely speculative with a minimum chance of economic success.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

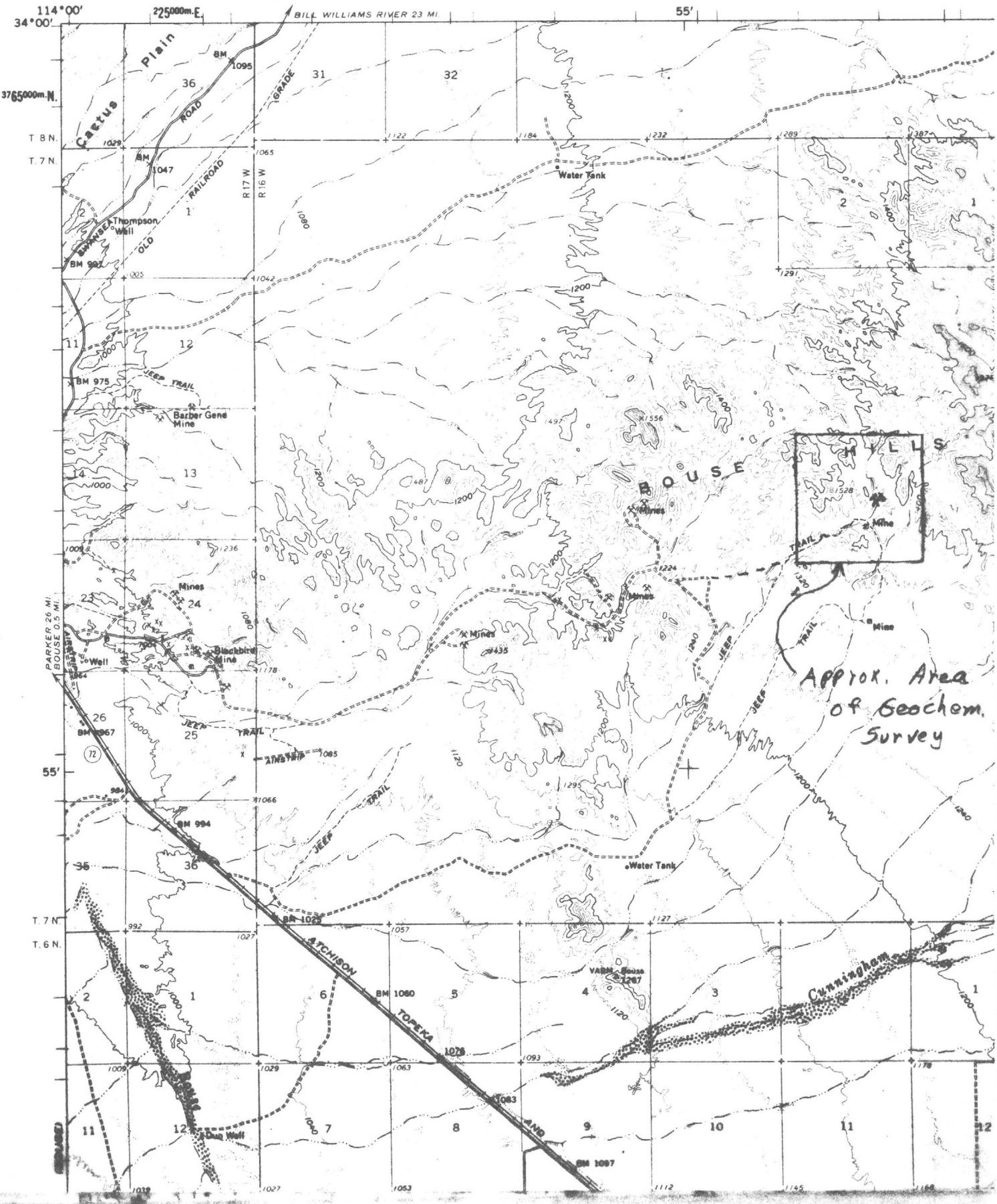
Harvey Durand
Geologist

December 31, 1965

APPROVED:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Utting, Arizona Quad



Heinrichs Geoexploration Co.
12-17-65

	Cu ppm in soil	Pb ppm in soil		Zn ppm in soil		Ag ppm in soil
Kilroy Samples Set A	O.K.	-90		-20		
Blank	0	29	corr	18	O.K. corr	<10
0	33	165	75	71	51	<10
1	28	97	7	71	51	<10
2	14	104	14	84	64	<10
3	36	113	23	93	73	<10
4	14	142	52	87	67	<10
5	16	142	52	79	59	<10
6	16	104	14	77	57	<10
7	16	119	29	73	53	<10
8	19	89	0	81	61	<10
9	16	113	23	79	59	<10
10	16	126	36	89	69	<10
11	16	119	29	79	59	<10
12	16	126	36	75	55	<10
13	11	113	23	58	38	<10
14	8	113	23	64	44	<10
15	22	113	23	68	48	<10
16	22	119	29	74	54	<10
17	24	113	23	77	57	<10
18	24	119	29	71	51	<10
19	22	113	23	66	46	<10
20	8	104	14	63	43	<10
21	22	119	29	66	46	<10
22	24	113	23	63	43	<10
23	28	126	36	61	41	<10
24	22	126	36	70	50	<10
25	16	119	29	65	45	<10
26	14	135	45	73	53	<10
27	30	135	45	81	61	<10
28	11	89	0	79	59	<10
29	8	97	7	71	51	<10
30	14	89	0	72	52	<10
31	11	89	0	72	52	<10
32	19	104	14	68	48	
33	16	113	23	89	69	

	Cu ppm	Pb ppm -90	CORR	Zn ppm		Ag ppm
34	14	126	36	79	59	<10
35	36	135	45	88	68	<10
36	24	135	45	93	73	<10
37	28	142	52	93	73	<10
38	24	126	36	87	67	<10
39	41	126	36	81	61	<10
40	33	119	29	79	59	<10
41	33	113	23	84	64	<10
42	44	104	14	86	66	<10
43	49	104	14	50	30	<10
44	28	126	36	80	60	<10
45	28	89	0	75	55	<10
46	28	104	14	78	58	<10
47	30	104	14	91	71	<10
48	28	97	7	66	46	<10
49	19	97	7	78	58	<10
50	11	89	0	82	62	<10
51	24	89	0	67	47	<10
52	24	104	14	66	46	<10
53	16	119	29	75	55	<10
54	24	104	14	68	48	<10
55	24	113	23	83	63	<10
56	24	113	23	69	49	<10
57	22	119	29	60	40	<10
58	22	113	23	75	55	<10
59	24	119	29	70	50	<10
60	46	119	29	83	63	<10
61	30	126	36	77	57	<10
62	46	113	23	68	48	<10
63	28	104	14	68	48	<10
64	22	82	0	55	35	<10
65	22	142	52	45	25	<10
66	22	97	7	55	35	<10
67	33	104	14	81	61	<10
68	28	119	29	70	50	<10
69	16	113	23	65	45	<10
70	16	113	23	70	50	<10
71	14	126	36	66	46	<10

	Cu ppm	Pb ppm -90	corr	Zn ppm		Ag ppm
72	16	119	29	76	56	<10
73	19	97	7	73	53	<10
74	19	104	14	66	46	<10
75	33	119	29	71	51	<10
76	22	104	14	64	44	<10
77	19	104	14	53	33	<10
78	19	126	36	73	53	<10
79	19	126	36	68	48	<10
80	16	157	67	68	48	<10
81	16	142	52	61	41	<10
82	16	150	60	59	39	<10
83	14	119	29	72	52	<10
84	14	119	29	69	49	<10
85	14	104	14	70	50	<10
86	24	126	36	71	51	<10
87	24	119	29	68	48	<10
88	24	135	45	67	47	<10
89	36	135	45	75	55	<10
90	22	142	52	105	85	<10
91	22	142	52	66	46	<10
92	19	150	60	75	55	<10
93	11	113	23	64	44	<10
94	36	126	36	89	69	<10
95	28	142	52	260	240	<10
96	22	142	52	81	61	<10
97	19	165	75	73	53	<10
98	22	172	82	75	55	<10
99	24	172	82	75	55	<10
100	38	97	7	88	48	<10

Heinrichs Geoexploration Co.
12- -65

Kilroy Samples
Set B

			Cu ppm in soil			Pb ppm in soil			Zn ppm in soil		
						corrected -90				corrected values -20	
Blank	0		0	.6	0026	0	47	1.4	0061	0	8
Field No. 1	.9	0039	23	1.0	0044	10	80	11.2	0516	48	68
10 IW 2	.9	0039	23	1.0	0044	10	80	10.9	0501	46	66
3	.9	0039	23	1.0	0044	10	80	10.7	0491	45	65
4	.9	0039	23	1.2	0052	14	94	12.0	0555	53	73
consecutive 5	1.0	0044	26	1.3	0057	13	103	13.3	0620	62	82
6	1.1	0048	28	1.4	0061	20	110	11.6	0535	51	71
7	1.3	0057	34	1.4	0061	20	110	13.4	0625	63	83
8	2.1	0092	55	1.7	0074	44	134	14.7	0691	71	91
9	1.6	0070	42	1.6	0070	36	126	14.2	0665	68	88
10	1.3	0057	34	1.6	0070	36	126	14.7	0691	71	91
11	1.2	0052	31	1.7	0074	44	134	10.5	0482	44	64
12	1.3	0057	34	2.3	0101	93	183	10.7	0491	45	65
13	1.1	0048	28	2.1	0092	76	166	14.2	0665	68	88
14	1.2	0052	31	1.9	0083	60	150	10.9	0501	46	66
15	.9	0039	23	1.8	0079	53	143	12.9	0600	59	79
16	1.1	0048	28	2.1	0092	76	166	12.8	0595	59	79
17	1.1	0048	28	1.6	0070	36	126	9.5	0434	37	57
18	1.5	0066	39	1.6	0070	36	126	8.3	0376	30	50
19	1.1	0048	28	1.5	0066	29	119	12.1	0560	54	74
20	1.4	0061	34	1.5	0066	29	119	12.3	0570	55	75
21	2.0	0088	52	1.7	0074	44	134	9.0	0410	34	54
22	1.4	0061	34	1.6	0070	36	126	11.8	0545	52	72
23	1.1	0048	28	2.1	0092	76	166	12.0	0555	53	73
24	1.1	0048	28	1.9	0083	60	150	10.2	0467	42	62
25	1.1	0048	28	1.6	0070	36	126	11.2	0516	48	68
26	1.0	0044	26	1.9	0083	60	150	12.6	0585	57	77
27	1.0	0044	26	1.7	0074	44	134	15.7	0745	78	98
28	1.0	0044	26	2.0	0088	69	159	15.1	0711	79	94
29	.9	0039	23	1.9	0083	60	150	12.9	0600	59	79
30	.7	0031	18	2.1	0092	76	166	11.1	0511	48	68
31	1.3	0057	34	1.8	0079	53	143	12.3	0570	55	75
32	1.2	0052	31	1.4	0061	20	110	12.2	0565	55	75
33	1.9	0083	49	1.4	0061	20	110	12.2	0565	55	75
34	1.3	0057	34	1.7	0074	44	134	11.8	0545	52	72

	CO			Pb		Corrected Values		Zn			
35	1.4	0061	36	1.8	0079	53	143	11.8	0545	52	72
36	1.4	0061	34	1.5	0066	29	119	9.6	0438	38	58
37	1.1	0048	28	1.3	0057	13	103	14.7	0691	71	91
38	1.2	0052	31	1.5	0066	29	119	10.1	0462	41	61
39	1.0	0044	26	1.8	0079	53	143	11.0	0506	47	67
40	.6	0026	15	1.7	0074	44	134	10.7	0491	45	65
41	.8	0035	21	1.7	0074	44	134	10.7	0491	45	65
42	.8	0035	21	1.2	0052	4	94	10.3	0472	42	62
43	.7	0031	18	1.0	0044	0	80	10.3	0472	42	62
44	1.1	0048	28	.9	0039	0	70	11.9	0550	53	73
45	1.1	0048	28	.9	0039	0	70	10.7	0491	45	65
46	1.0	0044	26	.8	0035	0	63	8.3	0376	30	50
47	1.3	0057	34	1.1	0048	0	87	13.1	0610	61	81
48	1.3	0057	34	1.0	0044	0	80	12.4	0575	56	76
49	.7	0031	18	.7	0031	0	56	10.0	0458	41	61
50	.8	0035	21	1.0	0044	0	80	11.2	0516	48	68
51	.8	0035	21	1.2	0052	4	94	9.1	0414	35	55
52	1.1	0048	28	1.1	0048	0	87	11.4	0526	50	70
53	1.2	0052	31	1.4	0061	20	110	11.4	0526	50	70
54	1.1	0048	28	1.5	0066	29	119	10.6	0487	44	64
55	1.2	0052	31	1.3	0057	13	103	10.1	0462	41	61
56	.8	0035	21	1.3	0057	13	103	13.1	0610	61	81
57	1.7	0074	44	1.4	0061	20	110	13.2	0615	61	81
58	1.1	0048	28	1.2	0052	4	94	9.6	0438	38	58
59	1.3	0057	34	1.4	0061	20	110	10.5	0482	44	64
60	1.0	0044	26	1.7	0074	44	134	11.3	0521	49	69
61	1.0	0044	26	.6	0026	0	47	11.2	0516	48	68
62	1.2	0052	31	.7	0031	0	56	13.2	0615	61	81
63	.4	0017	10	.8	0035	0	63	15.5	0731	77	97
64	.9	0039	23	1.0	0044	0	80	12.2	0565	55	75
65	1.4	0061	36	.9	0039	0	70	9.8	0448	39	59
66	1.4	0061	34	.7	0031	0	56	12.3	0570	55	75
67	1.2	0052	31	.7	0031	0	56	13.1	0610	61	81
68	1.2	0052	31	.6	0026	0	47	11.1	0511	48	68
69	1.2	0052	31	.7	0031	0	54	10.8	0496	46	66
70	.9	0039	23	.8	0035	0	63	12.0	0555	53	73
71	1.4	0061	36	1.0	0044	0	80	12.1	0560	54	74
72	1.4	0061	36	1.0	0044	0	80	11.9	0550	53	73

	Co			Pb		corrected value		Zn		corrected value	
73	1.4	0061	34	.9	0039	0	70	13.5	0630	63	83
74	1.6	0070	42	.9	0039	0	70	9.9	0453	40	60
75	1.0	0044	24	.9	0039	0	70	8.9	0405	34	54
76	1.6	0070	42	1.1	0048	0	87	12.9	0600	59	79
77	1.4	0048	28	1.2	0052	4	94	12.2	0565	55	75
78	1.1	0048	28	1.4	0061	20	110	10.9	0501	46	64
79	1.0	0044	24	1.1	0048	0	87	11.3	0521	49	69
80	1.1	0048	28	1.1	0048	0	87	10.2	0467	42	62
81	1.2	0052	31	.5	0022	0	40	10.2	0467	42	62
82	1.1	0048	28	1.2	0052	4	94	11.1	0511	48	68
83	1.1	0048	28	.9	0039	0	70	11.2	0516	48	68
84	1.3	0057	34	.8	0035	0	63	10.8	0496	46	66
85	1.3	0057	34	1.0	0044	0	80	11.2	0516	48	68
86	1.0	0044	24	.9	0039	0	70	10.9	0501	46	66
87	1.3	0057	34	1.2	0052	4	94	12.7	0590	58	78
88	.8	0035	21	1.5	0066	29	119	8.3	0376	30	50
89	1.0	0044	24	1.5	0066	29	119	11.7	0540	51	71
90	1.2	0052	31	1.5	0066	29	119	11.5	0531	50	70
91	2.2	0097	58	1.4	0061	20	110	13.6	0635	64	84
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94	1.5	0066	39	1.6	0070	36	126	12.5	0580	57	77

Standards			Standards			Standards		
1.05	10.45	20.90	1.50	15.00	30.00	.38	3.75	7.50
4.0 4.0	30.5	51.0	1.9 1.8	17.3	31.1	6.4	44.5	65.8
4.0	32.4 / 31.5	53.1 / 52.1	2.0	18.5 / 17.9	32.6 / 31.9	0287	2557	4660
0177	1643	3197	0083	0857	1669	1324	1467	1609
5932	6340	6537	1807	1750	1797			

PROSPECT EVALUATION SURVEY
HOWARD CLAIMS AREA
YUMA COUNTY, ARIZONA

For

Mr. Oliver Kilroy

December 1965

by

Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona

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Based on the weak geochemical anomalism, lack of visible mineralization in the area, and limited size of the mineralized zone as seen in the prospect pits, further work on the property would appear to be extremely speculative with a minimum chance of economic success.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

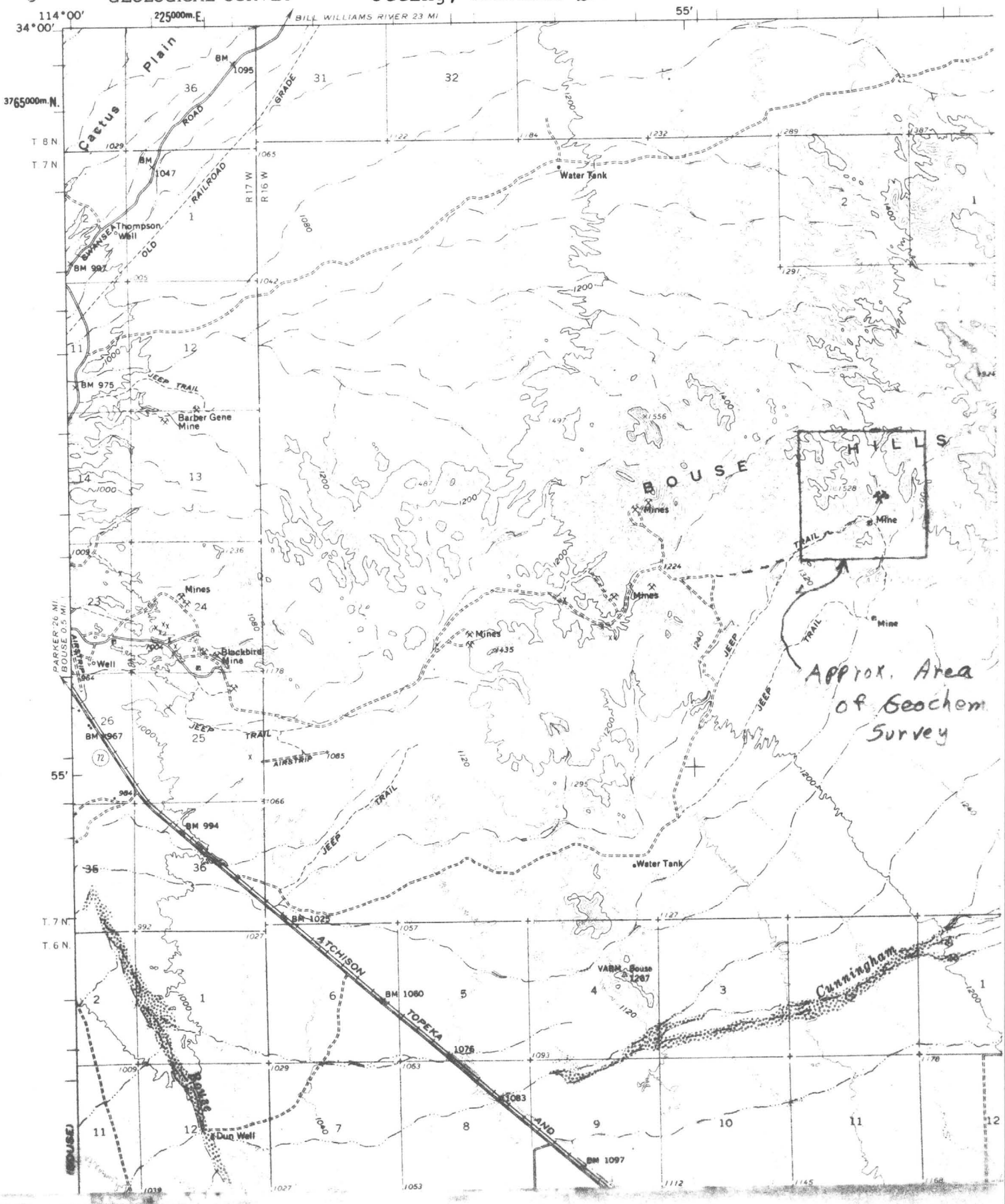
Harvey Durand
Geologist

December 31, 1965

APPROVED:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Utting, Arizona Quad



Dec 3-6, 1965

Line 6
0-8E

TR. MK. REG. U.S. PAT. OFF.

	LOC	Reading	Time	Scale	RT	RX
790	0E	79	1:12	+1		and(P)
84-2	1E	85	4 16	+1	Granite +	Andcoy
1055	2E	107	8 20	+1	Vol	
887	3E	91	12 24	+1	Vol	
850	4E	88	16 28	+1	L + Vol	
1012	5E	105	20 32	+1	L	not min
1155	6E	120	24 36	+1	L	
1037	7E	109	28 40	+1	L	
1024	8E	108	1:42	+1	L + Vol	

Check 0E
95 2:37 +1

1.88 l/min

Magnetic notes
Kilroy Prospect
Howard claims
Yuma Co.

ORIGINAL COPR. 1918 BY J. C. PARKER

LEFAX: PHILADELPHIA 7, PA MADE IN U.S.A

Line 5

heading W

Corr.	Loc	Reed	Scale	Time	Rx
958	9 W	106	+1	2:06	G -(fresh)
931	10 W	104	+1		G-Covered
793	11 W	91	+1		G
1096	12 W	122	+1		G
1038	13 W	117	+1		G+Cover.
971	14 W	111	+1		Vol+cover
773	15 W	92	+1	2:30	Vol+cover
856	16 W	101	+1		G va.
790	Check	OE	95, +1,	2:37	
	-160 W				
	C - 17 W	94	+1	2:42	Vol+G
	18 W	108	+1		G
	19 W	129	+1		G
	20 W	115	+1	3:00	Vol (qal)
	21 W	103	+1		G capped Vol
	22 W	101	+1		G+Vol
	23 W	124	+1	3:15	G+Vol
	24 W	95	+1		Vol
1150	25 W	131	+1		G+Vol
1090	26 W	125	+1		G
930	27 W	109	+1		Vol
700	28 W	86	+1		Vol+cover
890	29 W	105	+1	3:37	

In area of 24W + 26W Cont Basic (andesite dikes N 40° W) many.

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Line 4
heading E

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	Loc	Read	Scale	time	Rx
720	30E	88	+1	3:46	Vol
840	31E	100	+1		Vol
888	32E	104	+1		Vol
950	33E	111	+1		Vol & G
1100	34E	126	+1		Vol OK ?
990	35E	115	+1	4:02	G
960	36E	112	+1		G
830	37E	99	+1		Vol
1400	38E	156	+1		Vol (OK avg ?)
1050	39E	121	+1		Vol
940	40E	110	+1	B.T 75' E	G.
950	41E	111	+1		G.
980 C -	42E	114	+1	4:44	G
Corr = 970		160 / 80			
	17 E check				
		97	+1	4:47	
	0 E check				
		96	+1	4:50	
970 C -	42E	1110	+1	5:06	G
820	43E	96	+1		G
860	44E	100	+1		Vol
970	45E	111	+1		Vol & G
910	46E	105	+1		G
1080	47E	122	+1		G
970	48E	111	+1		Qal
860	49E	100	+1		Qal
840	50E	98	+1	5:30	G

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Line 3
reading W

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		LOC	Read	Scale	time	Ry
	980	51W	112	+1	5:40	G
	880	52W	102	+1		G & Vol Qal
	860	53W	100	+1		"
	840	54W	98	+1		G
	830	55W	97	+1		G
	1070	56W	121	+1		Vol
	800	57W	94	+1		Qal
	930	58W	107	+1		Qal
	920 ←	59W	106	+1	6:02	Qal
-10	910	check (42E)				
	980	42E	112	+1	6:05	
	morning	Sun	Rec 5			
	check	0E	86	+1	9:42	
0	910	59W	100	+1	9:48	
1	910/908	60W	100	+1	5	Qal
2	470/467	61W	56	+1	10	Qal
3	990/986	62W	108	+1	15 Pros pit 200' N10°W	G & Qal
4	1160/1155	63W	125	+1	20	Vol & Qal
5	820/814	64W	91	+1	25	Vol
6	840/833	65W	93	+1	30	Vol
7	1050/1042	66W	114	+1	35	Vol
8	920/911	67W	101	+1	10:35	Vol

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Line 2
68E
heading E

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		Loc	Read	Scale	time	Ref
9	1060/1050	68E	115	+1	10:45	G
10	1740/1778	69E	188	+1	5	G
11	1000/987	70E	109	+1	50	Qal & Vol
12	960/946	71E	105	+1	55	G
13	950/935	72E	104	+1	60	Vol & G
14	910/894	73E	100	+1	65	G
15	1050/1033	74E	114	+1	70	Qal & Vol
16	910/892	75E	100	+1	75	Vol
	1360/1341	76E	144	+1	80	Vol
		check	59W			
	930/910 = +20 / 88 min		102 = .23/min	+1	11:16	
	1341	76E	1440	+1	11:20	
	941/942	77E	104	+1	1	Vol & Qal
	1541/1544	78E	164	+1	2	G 1.5 not min
	451/455	79E	55	+1	3	G
	921/927	80E	102	+1	4	G
	1221/1228	81E	132	+1	5	G & Vol
	941/950	82E	104	+1	6	G
	911/921	83E	101	+1	7	Qal
	911/923	84E	101	+1	11:45 8	G

LEFAX: PHILADELPHIA 7, PA. MADE IN U.S.A.

Line 1

Heading W

TR. MK. REG. U.S. PAT. OFF.

	Loc	Read	Scale	time	Rt
921/934	85W	102	+1	9 11:50	Qal
941/956	86W	104	+1	10	Qal
781/797	87W	88	+1	11	Qal
881/899	88W	98	+1	12	G
961/980	89W	106	+1	13	Vol
981/1002	90W	108	+1	14	Vol
821/844	91W	92	+1	15	Vol
821/845	92W	92	+1	16	Vol
1141/1167	93W	124	+1	17	G
1141/1168	94W	124	+1	18	Qal & G
1141/1170	95W	124	+1	19	G
961/991	96W	106	+1	20	Vol
871/903	97W	112	+1	21 12:26	G cap by Vol
981/1014	98W	108	+1	22	G
1001/1036	99W	110	+1	23	G
951/987	100W	105	+1	24	G
1011/1049	101W	111	+1	25 12:40	Vol

Check 76E

1301/1340		140	+1	26 12:50
	0E	88	+1	1:00

90 min time (26 sta)

Drift .444 l/min

3.46 min/sta × .444 l/min = 1.54 l/sta

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LEFAX, PHILADELPHIA 7, PA MADE IN U.S.A.

Line 6
Reading W

	Loc	Read	Scale	time	Rl
790	OE	83	+1 0	1:30	
980/977	102W	102	+1 1		Vol
900/894	103W	94	+1 2		G
980/971	104W	102	+1 3		Vol
1260/1248	105W	130	+1 4		G tot chl
880/865	106W	92	+1 5		G
810/792	107W	85	+1 6		G
1120/1099	108W	116	+1 7		G
1180/1156	109W	122	+1 8	2:10	Vol

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LEFAX, PHILADELPHIA 7, PA MADE IN U.S.A

Line 7

Leading E

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	time	Loc	Read	Scale	Rx
1210/1183	2:20	110E	125	+1 9	Vol
1230/1200		111E	127	+1 10	Vol
970/937		112E	101	+1 11	G
980/944		113E	102	+1 12	G some Vol
960/921		114E	100	+1 13	G
1510/1468		115E	155	+1 14	Qal
1090/1045		116E	113	+1 15	"
1080/1032	2:55	117E	112	+1 16	Vol
1000/950		118E	104	+1	Vol
910/911	0 E 17	119E	100 1	+1	Vol (PIT here @ 50' SW)
1280/1283					
840/790	88, +1, 2:50	120E	137 2	+1	G
1480/1484		121E	157 3	+1	G
1020/1026		122E	111 4	+1	Vol DK?
920/928		123E	101 5	+1	Qal
1090/1099		124E	118 6	+1	Qal
1200/1211		125E	129 7	+1	L
970/983	3:20	126E	106 8	+1	L

Check

20 E
10 S
PIT

$$\frac{50\ l\ \text{drift}}{80\ \text{min}} = .625\ l/\text{min}$$

$$\frac{80\ \text{min}}{17\ \text{sta}} = 4.70\ \text{min}/\text{sta}$$

$$2.941\ l/\text{sta}$$

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LEFAX, PHILADELPHIA 7, PA MADE IN U.S.A.

Line 8
heading W

	Loc	Read	Scale	time	
860/874	127W	95	+1	3:30	G
830/846	128W	92	+1		Qal
860/878	129W	95	+1		"
880/899	130W	97	+1		"
1060/1081	131W	115	+1		Vol
1290/1313	132W	138	+1		Vol
950/974	133W	104	+1		Vol
720/746	134W	81	+1		Vol
1038/1058	135W	~~112~~	+1	3:55	Vol
908/906	136W	97	+1	4:20	Vol
1208/1205	137W	127	+1		Vol
858/853	138W	92	+1		Qal
988/982	139W	105	+1		Vol
1558/1550	140W	162	+1		Qal
948/939	141W	101	+1		Vol + Qal
1618/1602	142W	168	+1		G
918/906	143W	98	+1	4:40	G
	check	118 E			
920/950		101	+1	4:00	

ST-4:15

$\frac{30\ l}{65\ min} = .4615\ l/min$

$\frac{65\ min}{18\ sta} = 3.61\ min/sta$

$1.666\ l/sta$

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Line 9

heading E

TR. MK. REG. U.S. PAT. OFF.

	Loc	Read	Scale	time	Rl	
918/905	144E	98	+1 9	4:46	Qal	
1368/1353	145E	143	+1 10		Qal	
798/782	146E	86	+1 11		G	
988/980	147E	105	+1 12		Vol	
1118/1099	148E	118	+1 13		Vol	
708/688	149E	77	+1 14		Vol	
698/676	150E	76	+1 15		Vol	
1028/1005	151E	109	+1 16		Vol	
908/883	152E	97	+1 17		Vol	Bk
1178/1152	153E	124	+1 18		G	
1658/1630	154E	172	+1 19		~~G~~ Qal	
738/709	155E	80	+1 20		Vol	
709 Base	155E	75	+1	10:00		
1429	156E	147	+1		Qal	
2259	157E	230	+1		Qal	
1389	158E	143	+1		Qal	
919	159E	96	+1		Qal	
879	160E	92	+1	10:17		
	check 135W			21		
1088/1058		115	+1	5:30		
	check OE					
		96	+1	5:35		
	morning (noon check OE)					
		92	+1	9:30		
	start					

$\frac{30\ l}{75\ min} = .4000\ l/min$

$\frac{75\ min}{21\ sta} = 3.757\ min/sta$

$1.428\ l/sta$

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LEFAX; PHILADELPHIA 7, PA MADE IN U.S.A

Line 10

heading W

TR. MR. REG. U.S. PAT. OFF.

	Loc	Read	Leak	Time	Rx
879	161W	92	+1	10:25	Qal
819	162W	86	+1		~~[illegible]~~ G
1099	163W	114	+1		Qal
1199	164W	124	+1		G
879	165W	92	+1		Vol
879 Base	166W	92	+1	10:50	G
1339/1336	167W	138	+1	1	G+Qal
1129/1124	168W	117	+1	2	Qal
729/72E2	169W	77	+1	3	Qal
1079/1070	170W	112	+1	4	Vol Qal
609 598	171W	65	+1	5	Vol DK
1999 1986	172W	204	+1	6	Vol
949/934	173W	99	+1	7	G
1019/1002	174W	106	+1	8	Qal
929/910	175W	97	+1	9	Vol DK?
929/908	176W	97	+1	10	G
929/906	177W	97	+1	11:27	Vol
	check		155E		
709		75	+1	10:48	

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LEFAX, PHILADELPHIA 7, PA MADE IN U.S.A

Line 11
heading E

TR. MK. REG. U.S. PAT. OFF.

	Loc	Read	Scale	time	
1099/1074	178E	114	+1 12	11:36	
1079/1047	179E	112	+1 13		Vol
919/890	180E	96	+1 14		Vol
939/907	181E	98	+1 15		G
959/925	182E	100	+1 16		Vol
929/893	183E	97	+1 17		~~G~~ Vol
1109/1071	184E	115	+1 18		Qal
1179/1139	185E	122	+1 19		Vol Qal
1149/1107	186E	119	+1 20		Qal Vol
1299/1255	187E	134	+1 21		G Qal
1179/1133	188E	122	+1 22		Vol
1059/1011	189E	110	+1 23		Qal Vol
1179/1129	190E	122	+1 24		Qal Vol
1529/1477	191E	157	+1 25		G-Vol DK out
1179/1125	192E	122	+1 26		G
969/913	193E	101	+1 27		Vol DK
979/921	194E	102	+1 28		Qal
	Check 166W				
939/879		98	+1 29	12:30	
Base	0E	86	+1	12:50	

main Breccia Vein
N 20° W ; 65° E.

$\frac{60\ l}{100\ min} = .6000\ l/min$

$\frac{100\ min}{30\ sta} = 3.448\ \frac{min}{sta}$

2.068 $\frac{l}{sta}$

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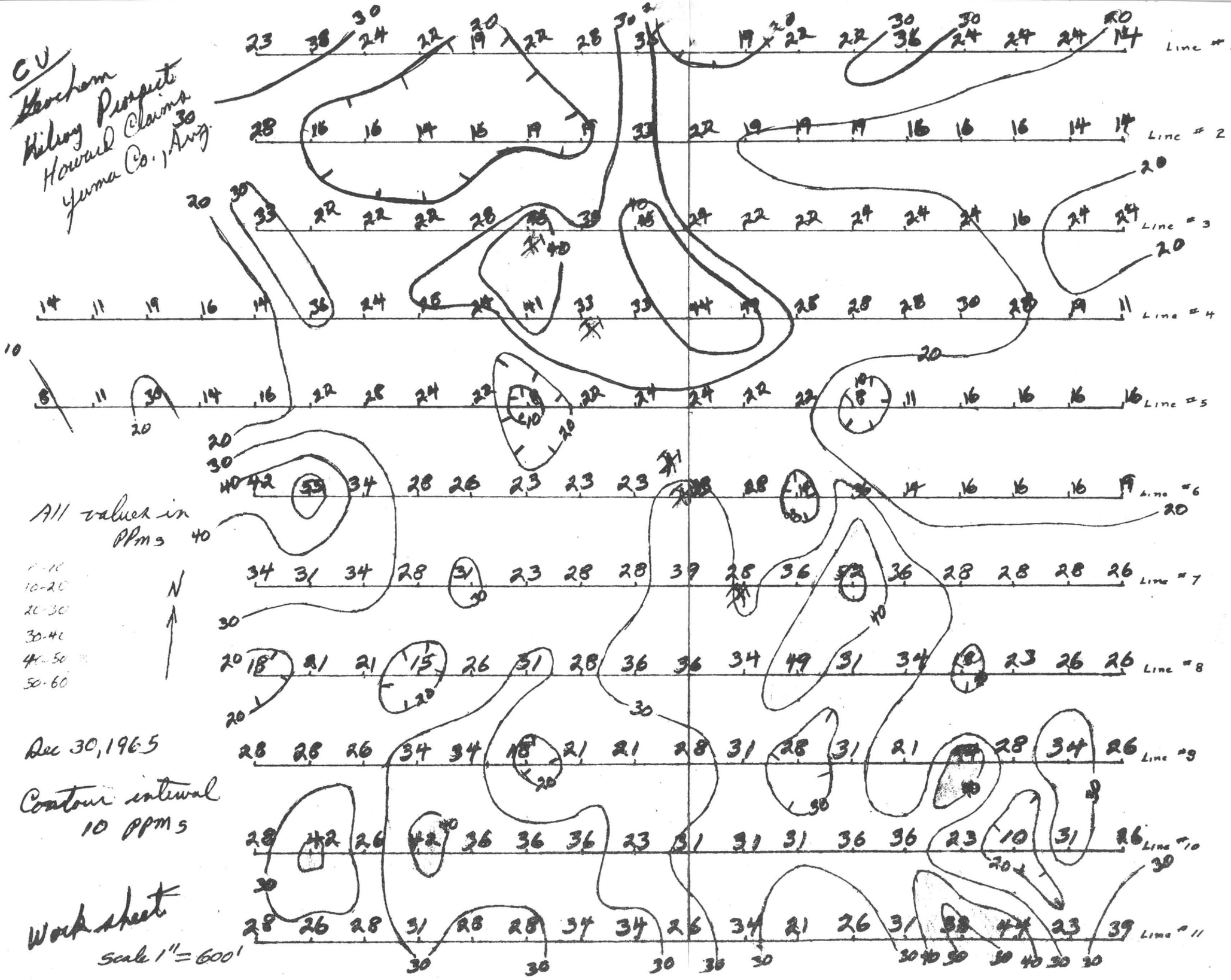
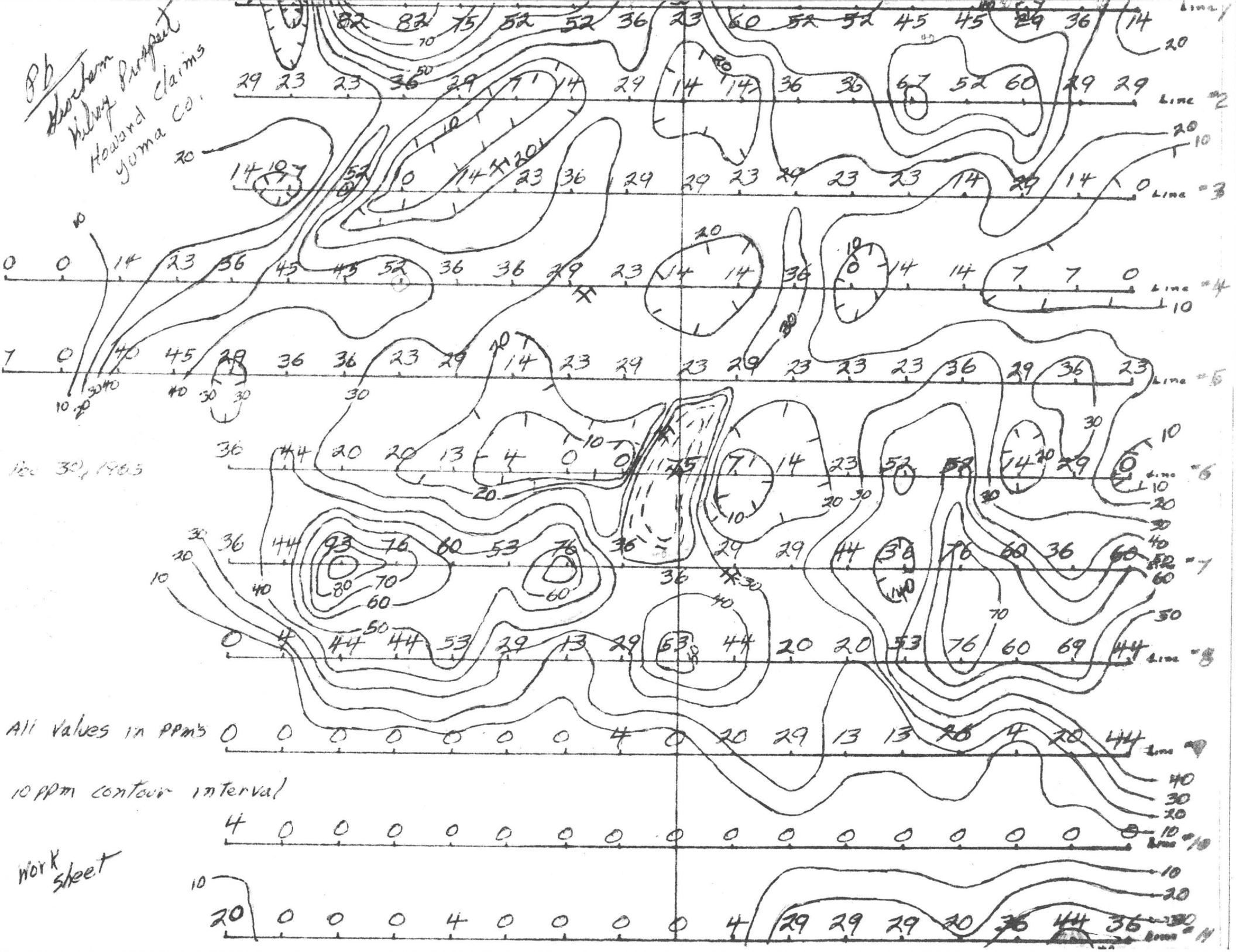

CV
Geochem
Kilroy Prospect
Howard Claims
Yuma Co., Ariz.
Line #1
Line #2
Line #3
Line #4
Line #5
Line #6
Line #7
Line #8
Line #9
Line #10
Line #11
All values in PPms
0-10
10-20
20-30
30-40
40-50
50-60
N
Dec 30, 1965
Contour interval 10 PPMs
Work sheet
Scale 1" = 600'

Pb

Western Valley Prospect
Howard claims
Yuma Co.

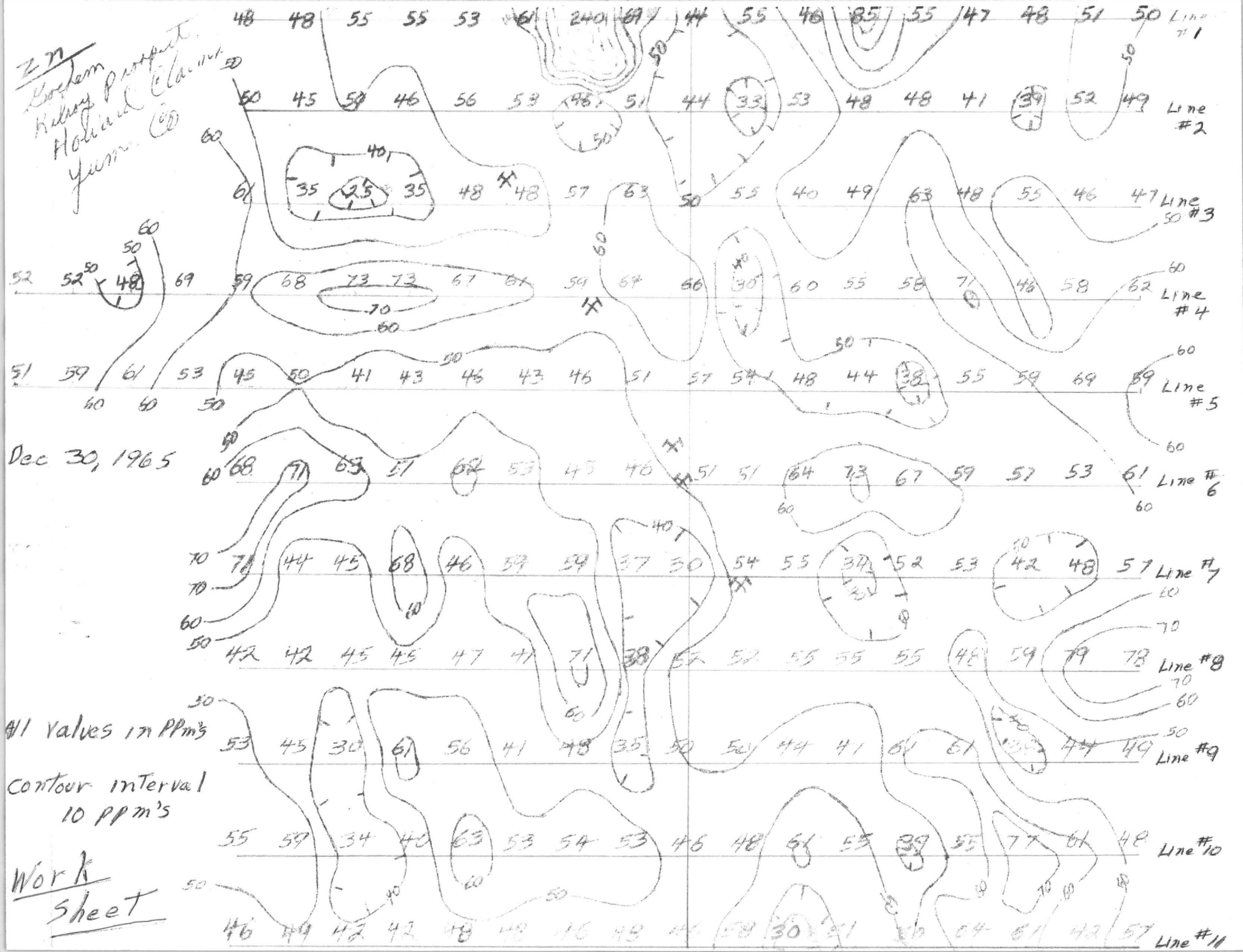


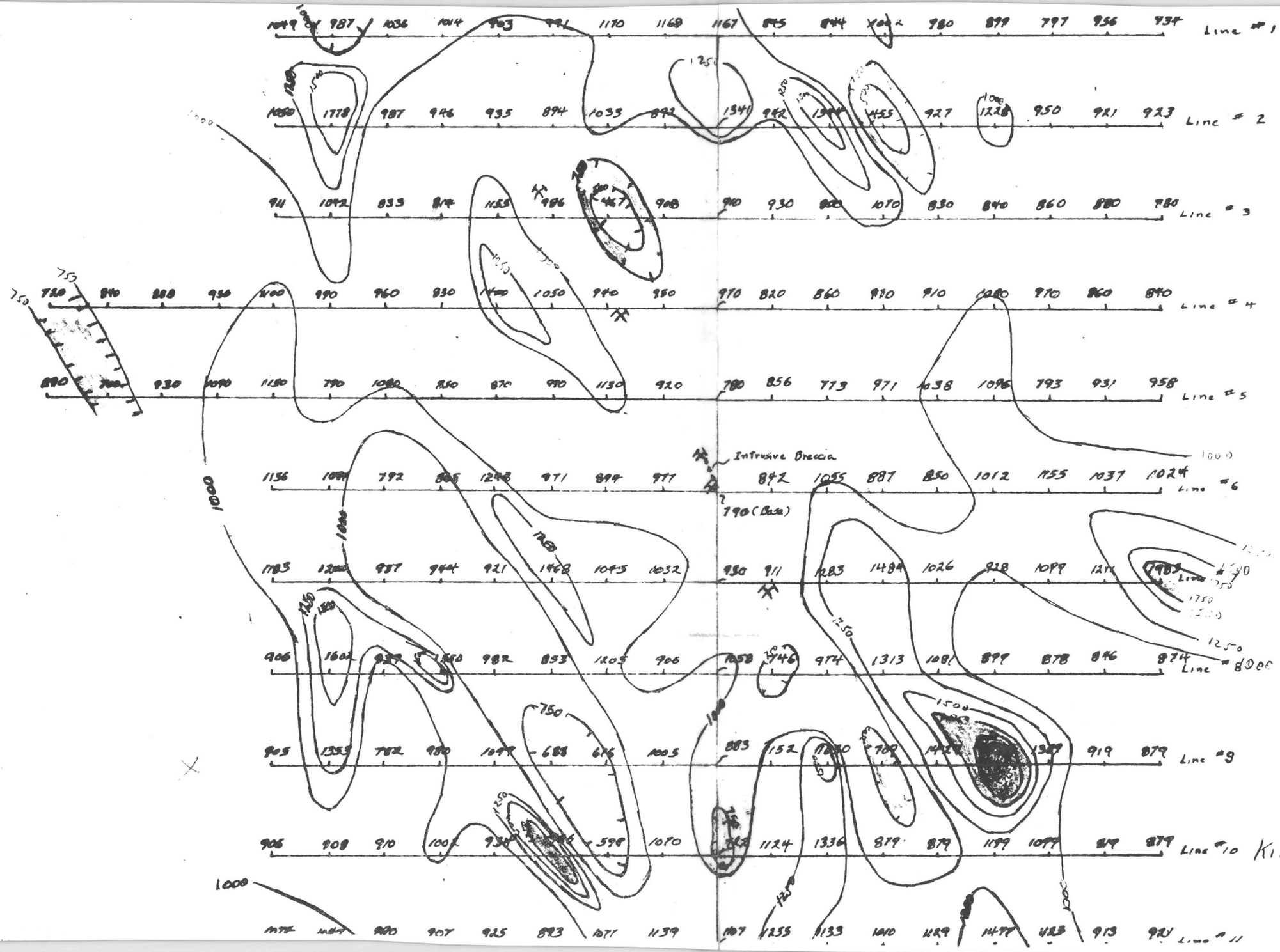
Dec 30, 1983

All values in PPm's

10 PPm contour interval

Work sheet


Zn
Gochem
Kilroy prospect
Howard Claims
Yuma Co
Line #1
Line #2
Line #3
Line #4
Line #5
Line #6
Line #7
Line #8
Line #9
Line #10
Line #11
Dec 30, 1965
All values in PPm's
contour interval
10 ppm's
Work
Sheet



Magnetic Work Sheet

250 γ C.I.

Scale 1" = 600'

Kilroy Prospect (Howard Claims) Yuma Co. Ariz

Memo to: Walter E. Heinrichs, Jr.
Subject: Oliver B. Kilroy Prospects
From : Harvey Durand
Date : December 1, 1965

THE BLACK SILVER PROSPECT

The Black Silver Prospect, located on the Eagletail Quad sheet, was examined on November 24, 1965 to see if the area was conducive to methods of geophysical examination.

The prospect itself consists of several small prospect pits excavated in a granite and andesite body. The andesite appears to be either a flow or a sill which strikes N55°W, dip 30°N. Volcanic rocks in the adjacent hills have same general strike and dip. The granite seems to be part of a large intrusive noted on the state geological map.

The metal values, silver and minor copper, are associated with a carbonate vein, siderite, ~~calerite~~ calcite, and minor manganese which lies underneath and in contact with the andesite body. This vein ranges from two feet to three feet in thickness and strikes conformable with the andesite body. Latteral extent, 15 feet, was limited to the prospect pit. Small carbonate veins striking N55°W, dip 30-40°N were noted in the granite. The granite itself was not mineralized.

It was explained to Mr. Kilroy that this prospect was small and had limited possibilities, the primary one being; does the vein widen and increase in mineralization at depth or along strike length? I thought possibly resistivity might be useful in that it could be used to delineate the andesite, but one possible problem is it's shallow dip. Magnetics might prove useful. It was mentioned to Mr. Kilroy that the value of the above methods would be only to delineate the structural relationship of the andesite and not to outline the vein, unless sulfides or magnetite is present in the vein at depth. Your views would be greatly appreciated.

HOWARD CLAIMS

The Howard claims, located approximately fifteen miles east of Bouse, Arizona, Utting Quad, are situated in the central portion of an altered area measuring approximately eight miles in length and three miles in width. Some manganese production has come from this area. Due to the coming of darkness, the area of interest was only briefly examined.

The claim prospect pits are confined to several intrusive breccia dikes which are cemented by hematite and minor copper carbonates. The rock in the claim area is an intesely altered granite containing sporadic shows of copper carbonates. Due to the extensive size of the area, a geochemical survey was recommended to note any possible anomalies. Mr. Kilroy seemed interested in such a program, so I told him we would work up a cost estimate. He plans to call the office during the first week in December.

Cost Estimate

The approximate size of the area to consider is one-half mile by one mile. Using a 200 foot spacing on a grid system. 250 samples are necessary taking approximately three to five days for collecting. Samples should be analyzed for copper, zinc, lead, and molybdenum.

Collecting - two 3 days	375.00
Rock chip sample preparation 250 samples at $1.75/sample	$250.00
Each mineral determination $0.50 copper, lead and zinc x 250 = 750 determinations 750 x $0.50	437.50
Office drafting 1-2 days at $100.00/ staff day	375.00
2-3	200.00
	300.00

Respectfully submitted

HEINRICHS GEOEXPLORATION CO.

Living, travel & other direct incidental expenses & time - $250.00?

Harvey Durand
Geologist

$1500.00 x estimate