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ESSEX

Core Drill

10

11

12

Approx. Survey Area

Shaft

ESSEX

ESSEX

Water

Wash

Dipole

15

IP/EM Transmitter

14

13

Wash

Road

22

Juan

San

Wilson

23

24

Well

Wash

Star

Lone

Well

Well

27

26

25

Well

R 26 E.

R 27 E.

40'

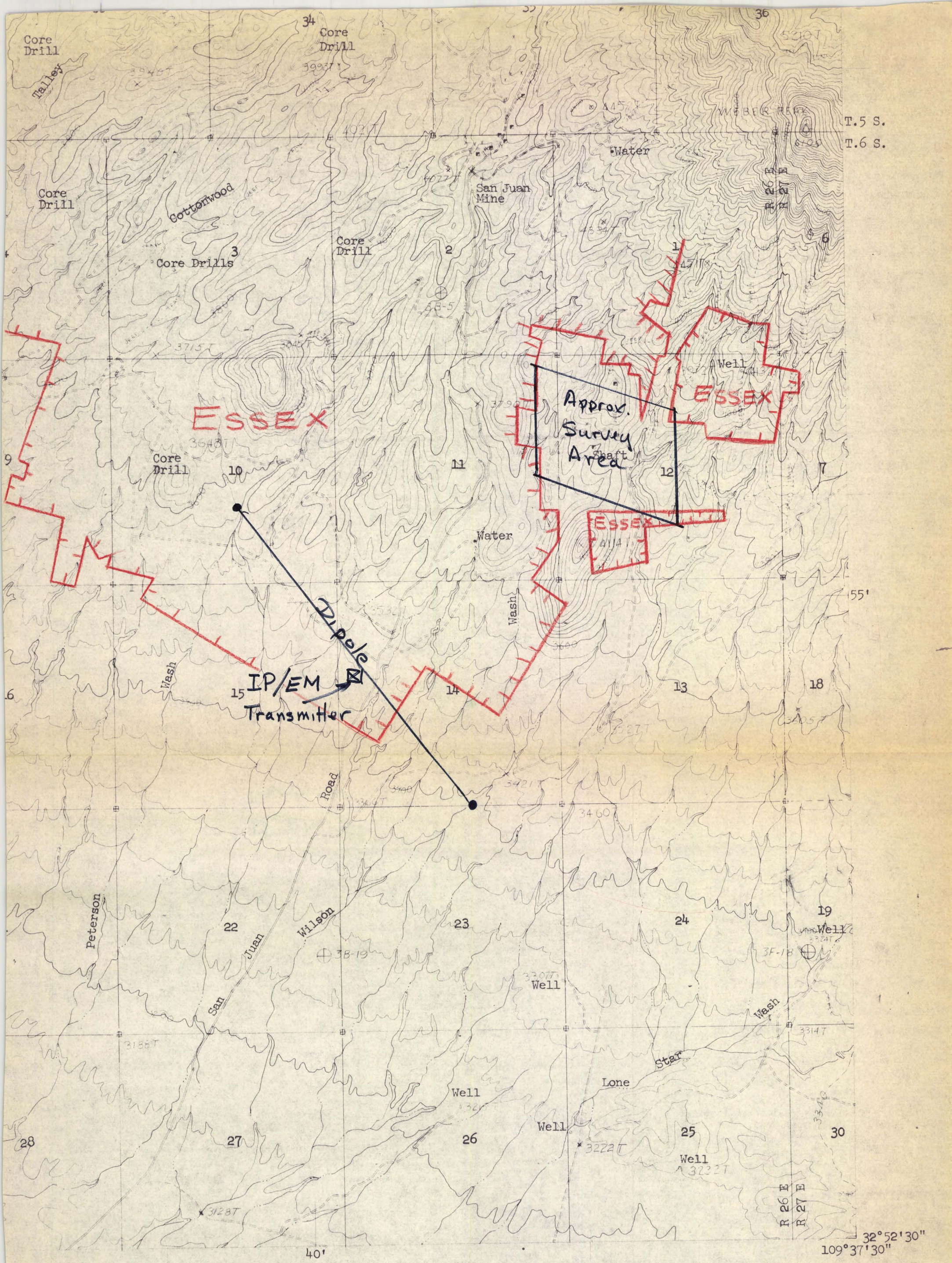
1 MILE

5000 6000 7000 FEET

FEET
VEL

KENNECOTT MAP
SHOWING LOCATION OF
ELECTRODES & REPORTED
SURVEY LOCATION
1/14/74
T. 6 S.
R. 26 E.

SAFFORD NW.,
GRAHAM C



SCALE 1:24000

0 1 MILE

0 3000 4000 5000 6000 7000 FEET

R INTERVAL 40 FEET
S MEAN SEA LEVEL

KENNECOTT MAP
SHOWING LOCATION OF
ELECTRODES & reported SURVEY LOCATION
1/14/74

SAFFORD NW., ARIZ.
GRAHAM CO.

Safford Project

SECTION E 10,900

~~assay~~	~~P-46~~	not available	
~~assay~~	~~P-20~~		
~~assay~~	~~P-8~~		
drill	N 9,500	250	
drill	N 9,700	550	
~~drill~~	N 9,600	350	new conditional covered by P-20
drill	N 9,900	150	new

SECTION E 11,000

redrill N 9,700 (P-11)	200'
drill N 9,600	200'
drill N 9,400	150'

SECTION E 11,100

~~assay~~	~~P-19~~	
redrill	N 9,800 (P-7)	250'
drill	N 9,900	200' conditional
drill	N 9,300	200
drill	N 9,500	300
drill	N 9,600	400
drill	N 9,700	400

SECTION E 11,200

redrill	N 9,600 (P-1)	400
redrill	N 9,500 (P-37)	350
drill	N 9,800	300
drill	N 9,300	200
drill	N 9,400	350

SECTION E 11,300

N 9,700	250'
N 9,500	300'
N 9,400	200
N 9,300	200
N 9,800	200

SECTION E 11,400

~~assay~~	~~P-13~~	
drill	N 9,400	350
drill	N 9,600	300
drill	N 9,800	250
drill	N 9,300	250

SECTION E 11,500

~~assay~~	P-14	
~~assay~~	P-Z	
drill	N 9,500	300
drill	N 9,800	350
drill	N 9,700	350
drill	N 9,900	250
drill	N 9,300	100

SECTION E 11,600

~~assay~~ ~~P-15~~

drill	N 9,500	350	
drill	N 9,900	300	
drill	N 10,000	300	conditional
drill	N 10,100	200	conditional
drill	N 9,800 (new)	400	
drill	N 9,300 (new)	200	
drill	N 9,400 (new)	250	

SECTION E 11,700

~~assay~~	~~P-48~~		
~~assay~~	~~P-42~~		
~~assay~~	~~P-4~~	incomplete (poor assays)	
drill	N 9,500	350	
drill	N 9,700	400	
drill	N 9,900	300	
drill	N 10,100	300	conditional
~~assay~~	~~P-41~~	good but very few samples	
drill	N 9,800 (new)	400	
drill	N 9,300	200	
redrill	N 10,000 (P-4)	250	

SECTION E 11,800

~~assay~~	P-49		
~~assay~~	P-6	not available	
~~assay~~	P-27		
drill	N 9,600	300	
drill	N 9,900	300	
drill	N 10,000	350	
drill	N 10,100	300	
drill	N 10,400	350	
drill	N 9,400	250	
drill	N 10,200	250	conditional

SECTION E 11,900

~~assay~~	~~P-50~~	
~~assay~~	~~P-22~~	
~~assay~~	~~P-26~~	
~~assay~~	~~P-28~~	
~~assay~~	~~P-30~~	
drill	N 9,700	350
drill	N 9,900	350
drill	N 10,100	350
drill	N 10,300	350
drill	N 10,500	300
drill	N 9,500	200

SECTION **E 12,000**

~~assay~~	~~P-31~~	
~~assay~~	~~P-25~~	
~~assay~~	~~P-29~~	
drill	N 9,600	400
drill	N 9,800	400
drill	N 10,000	350
drill	N 10,200	350
drill	N 10,400	350

SECTION E 12,100

~~assay~~	~~P-52~~	
~~assay~~	~~P-36~~	
~~assay~~	~~P-32~~	
drill	N 9,600	350
drill	N 9,700	350
drill	N 9,900	350
drill	N 10,100	300
drill	N 10,300	350

SECTION E 10,700

~~assay~~	~~P-34~~	
~~assay~~	~~P-43~~	
~~assay~~	~~P-35~~	
drill	N 9,700	400
drill	N 9,900	300'
drill	N 10,100 (new)	300

SECTION **E 10,800**

~~assay~~	~~P-39~~	
~~assay~~	~~P-21~~	
~~assay~~	~~P-24~~	
drill	N 9,600	250
assay	P-9	
drill	N 10,000 (new)	300
redrill	N 9,800 (P-21)	200

Results of San Juan Volume Calculations

5/23/73

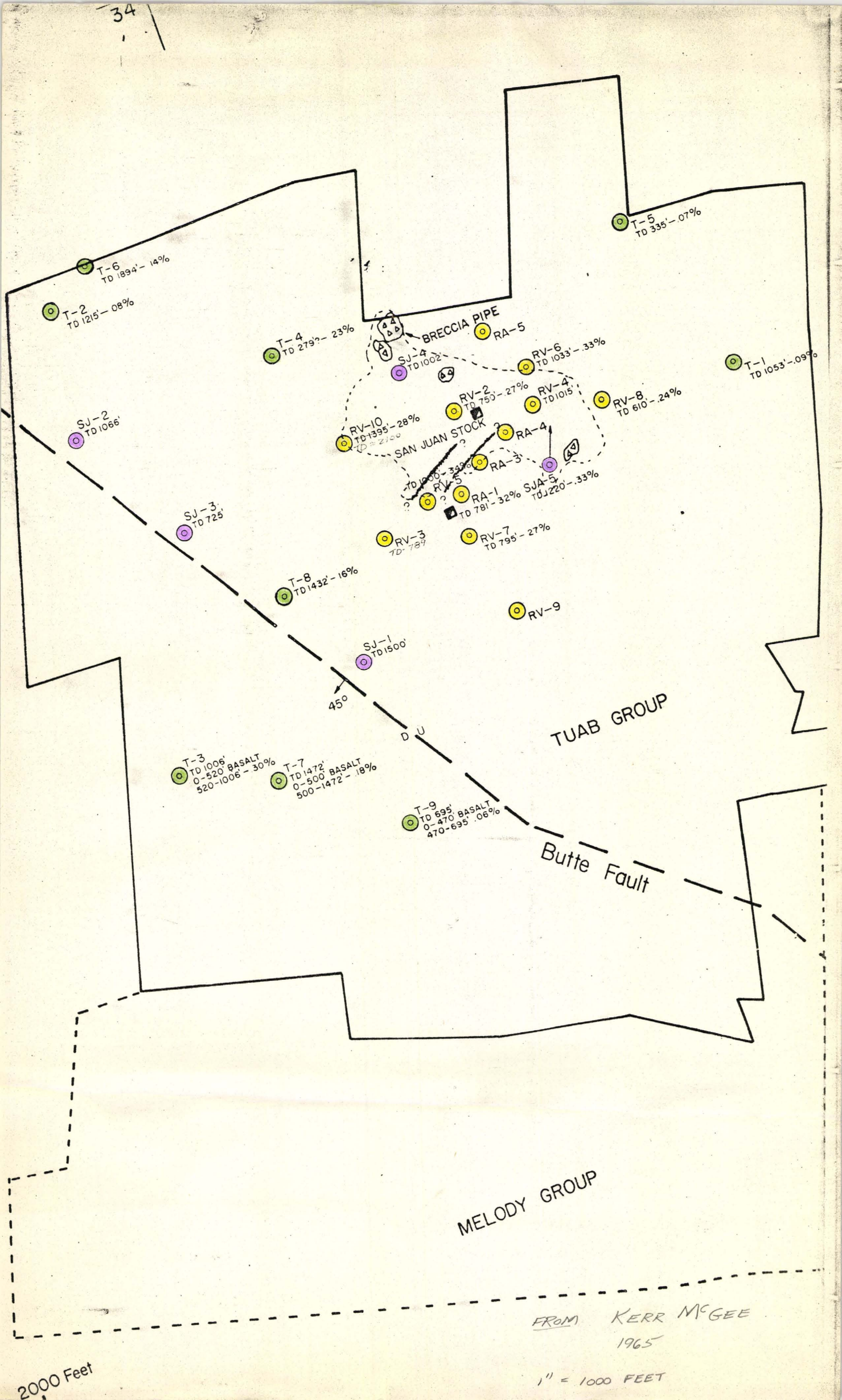
The following tables were calculated from logs of Producers drill holes. All of the material mined to date is included in these figures. The gross figures include all areas. The contiguous figures include those areas which would be used as a basis for calculating a mine reserve. No assays were used in arriving at the volumes.

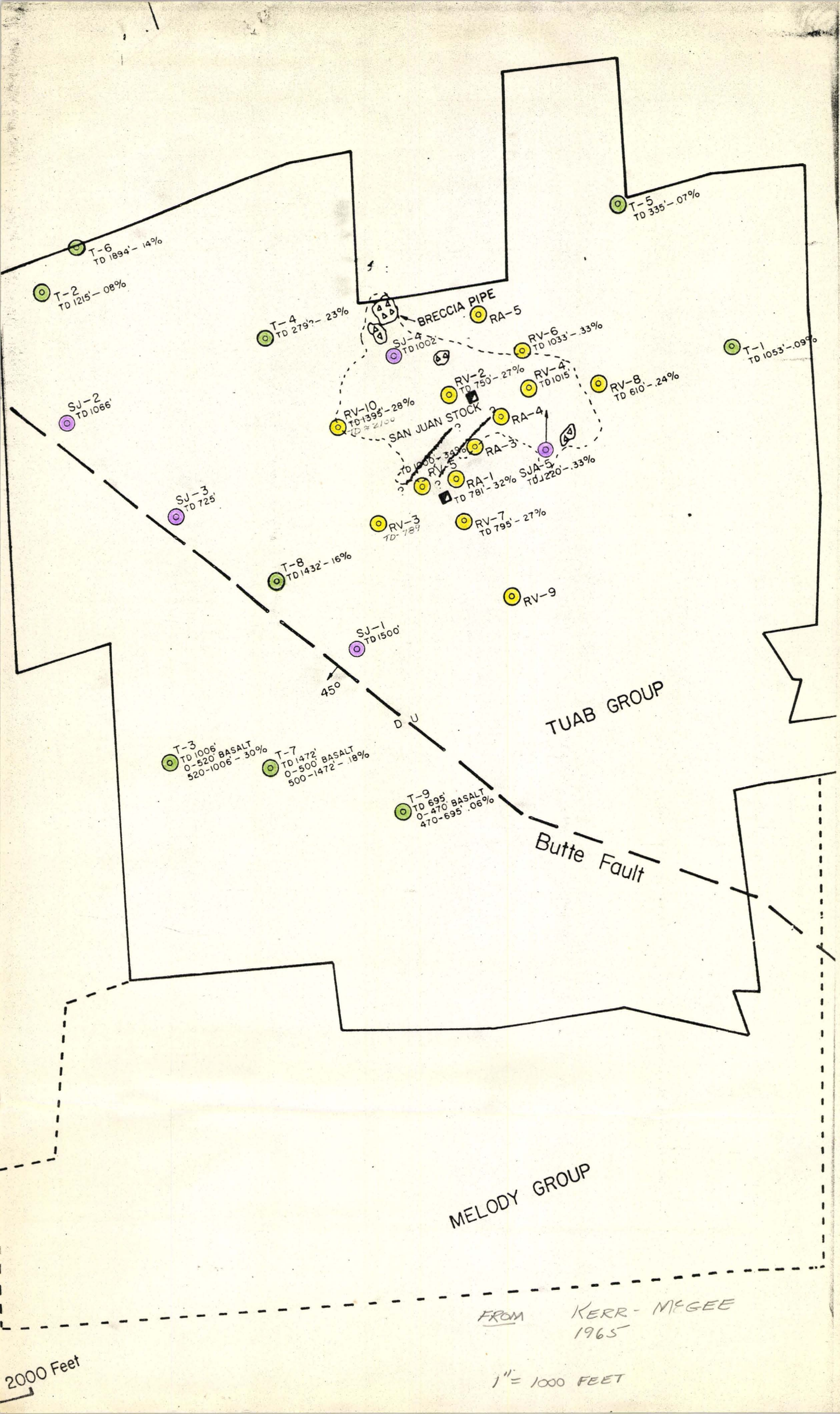
Class	Gross Tons	Contiguous Tons
Oxides		
Good	714,420	714,420
Fair	2,515,788	2,019,912
Mixed Oxide + Sulf.		
Fair	152,583	152,583
Sulfides		
Good	330,407	330,407
Fair	260,675	101,600
Totals	3,973,873	3,318,922

Assays of rejects reportedly from 10 drill holes of the 52 logged were extrapolated to represent the above volumes. The following table is a total compulation of this calculation.

Class	Gross Tons	Grade	Contiguous Tons	Grade
Good	1,044,827	2.31 % Cu	1,044,827	2.31 % Cu
Fair	2,929,046	0.50 % Cu	2,274,095	0.50 % Cu
Totals	3,973,873	0.98 % Cu	3,318,922	1.07 % Cu

Dennis C. Temple


T-6
TD 1894' - 14%
T-2
TD 1215' - 08%
T-4
TD 279?' - 23%
BRECCIA PIPE
RA-5
SJ-4
TD 1002'
T-5
TD 335' - 07%
RV-6
TD 1033' - 33%
T-1
TD 1053' - 09%
RV-2
TD 750' - 27%
RV-4
TD 1015'
RV-8
TD 610' - 24%
SJ-2
TD 1066'
RV-10
TD 1395' - 28%
TD = 2100
SAN JUAN STOCK
RA-4
TD 1050' - 34%
RA-3
RV-5
RA-1
TD 781' - 32%
SJA-5
TD 1220' - 33%
SJ-3
TD 725'
RV-3
TD 789
RV-7
TD 795' - 27%
T-8
TD 1432' - 16%
RV-9
SJ-1
TD 1500'
45°
D U
TUAB GROUP
T-3
TD 1006'
0-520' BASALT
520-1006' - 30%
T-7
TD 1472'
0-500' BASALT
500-1472' - 18%
T-9
TD 695'
0-470' BASALT
470-695' .06%
Butte Fault
MELODY GROUP
FROM KERR McGEE
1965
2000 Feet
1" = 1000 FEET


T-6
TD 1894' - 14%
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TD 1215' - 08%
T-5
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T-4
TD 279'? - 23%
BRECCIA PIPE
RA-5
SJ-4
TD 1002'
RV-6
TD 1033' - 33%
T-1
TD 1053' - 09%
RV-2
TD 750' - 27%
RV-4
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TD 610' - 24%
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RV-3
RV-7
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RV-9
SJ-1
TD 1500'
45°
D U
TUAB GROUP
T-3
TD 1006'
0-520' BASALT
520-1006' - 30%
T-7
TD 1472'
0-500' BASALT
500-1472' - 18%
T-9
TD 695'
0-470' BASALT
470-695' .06%
Butte Fault
MELODY GROUP
FROM KERR-McGEE
1965
2000 Feet
1" = 1000 FEET

SAN JUAN COPPER DEPOSIT

DEVELOPMENT DRILLING — PHASE I

BHH 1/74

HOLE NUMBER	COORDINATES		DEPTH
1	N 9500	E 11200	350
2	N 9700	E 11,200	200
3	N 9800	E 10800	200
4	N 10000	E 10600	350
5	N 10100	E 10700	300
6	N 10000	E 10800	300
7	N 9900	E 10700	300
8	N 9900	E 10900	150
9	N 9600	E 10600	200
10	N 9700	E 10700	400
11	N 9600	E 10800	250
12	N 9700	E 10900	350
13	N 9500	E 10900	250
14	N 9400	E 11000	150
15	N 9300	E 11100	200
16	N 9300	E 11200	200
17	N 9300	E 11300	200
18	N 9300	E 11400	250
19	N 9300	E 11500	100
20	N 9300	E 11600	200
21	N 9300	E 11700	200
22	N 9400	E 11800	250
23	N 9400	E 11600	250
24	N 9400	E 11400	350
25	N 9400	E 11300	200
26	N 9400	E 11200	350
27	N 9500	E 11100	300
28	N 9500	E 11300	300
29	N 9500	E 11500	300
30	N 9500	E 11600	350
31	N 9500	E 11700	350
32	N 9500	E 11900	200
33	N 9600	E 12100	350
34	N 9600	E 12000	400
35	N 9600	E 11800	300

HOLE NUMBER	COORDINATES		DEPTH
36	N 9600	E 11400	300
37	N 9600	E 11200	400
38	N 9600	E 11100	400
39	N 9600	E 11000	200
40	N 9700	E 11100	400
41	N 9700	E 11300	250
42	N 9700	E 11500	350
43	N 9800	E 11500	350
44	N 9800	E 11400	250
45	N 9800	E 11300	200
46	N 9800	E 11200	300
47	N 9800	E 11100	250
48	N 9700	E 11700	400
49	N 9700	E 11900	350
50	N 9700	E 12100	350
51	N 9800	E 12200	300
52	N 9800	E 12000	400
53	N 9800	E 11700	400
54	N 9800	E 11600	400
55	N 9900	E 11500	250
56	N 9900	E 11600	300
57	N 9900	E 11700	300
58	N 9900	E 11800	300
59	N 9900	E 11900	350
60	N 9900	E 12100	350
61	N 9900	E 12200	250
62	N 10000	E 12000	350
63	N 10000	E 11800	350
64	N 10000	E 11700	250
65	N 10100	E 11800	300
66	N 10100	E 11900	350
67	N 10100	E 12100	300
68	N 10200	E 12000	350
69	N 10300	E 11900	350
70	N 10300	E 12100	350
71	N 10400	E 12000	350
72	N 10400	E 11800	350
73	N 10500	E 11900	300
			21650

TOTALS

# HOLES	13
FOOTAGE	21,650

Essex proposed drilling program.

SECTION E 12,200

drill	N 9,800	300	
drill	N 9,900	250	
drill	N 10,000	200	conditional

Tons 4,867,000 APPROX.

Grade 0.65 % Cu

The above numbers were obtained by calculating all blocks of ore containing $\geq$ 0.4 % copper still remaining in the pit area. No consideration was given to depth or wall slope limitations. Estimated 12.2 cubic feet per ton.
Based on assays of record 12-26-73

E 11,700

3 185 744.34

4,867,220

P-41

$$\frac{280 \times 100 \times 100}{12.2} = 229,510 \quad (0.54)$$

E 10,700

P-34

$$\frac{80 \times 100 \times 100}{12.2} = 65,570 \quad (0.78)$$

$$\frac{170 \times 100 \times 100}{12.2} = 139,340 \quad (0.68)$$

P-35

$$\frac{20 \times 100 \times 100}{12.2} = 16,390 \quad (0.48$$

E 10,800

P-9

$$\frac{10 \times 100 \times 100}{12.2} = 8,200 \quad (1.63)$$

$$\frac{80 \times 100 \times 100}{12.2} = 65,570 \quad (0.41)$$

$$\frac{9 \times 100 \times 100}{12.2} = 7,380 \quad (0.84)$$

P-21

$$\frac{45 \times 100 \times 100}{12.2} = 36,890 \quad (0.46)$$

E 10,900

P-8

$$\frac{275 \times 100 \times 100}{12.2} = 225,410 \quad (1.57)$$

E 11,000

P-44

$$\frac{75 \times 100 \times 100}{12.2} = 61,480 \quad (0.56)$$

P-11

$$\frac{140 \times 100 \times 100}{12.2} = 114,750 \quad (0.41)$$

$$\frac{30 \times 100 \times 100}{12.2} = 24,590 \quad (0.48)$$

P-23

$$\frac{77 \times 100 \times 100}{12.2} = 63,110 \quad (0.69)$$

E 11,100

P-19

$$\frac{110 \times 100 \times 100}{12.2} = 90,160 \quad (0.51)$$

$$\frac{30 \times 100 \times 100}{12.2} = 24,590 \quad (0.61)$$

P-38

$$\frac{60 \times 100 \times 100}{12.2} = 49,180 \quad (0.72)$$

$$\frac{183 \times 100 \times 100}{12.2} = 150,000 \quad (0.59)$$

E 11,200

P-37

$$\frac{262 \times 100 \times 100}{12.2} = 214,750 \quad (0.43)$$

P-1

$$\frac{254 \times 100 \times 100}{12.2} = 208,200 \quad (0.5 \text{ EST. MATED})$$

P-10

$$\frac{160 \times 100 \times 100}{12.2} = 131,150 \quad (2.52)$$

$$\frac{95 \times 100 \times 100}{12.2} = 77,870 \quad (0.76)$$

E 11,300

P-12

$$\frac{67 \times 100 \times 100}{12.2} = 54,920 \quad (0.60)$$

$$\frac{50 \times 100 \times 100}{12.2} = 40,980 \quad (0.58)$$

E 11,400

P-13

$$\frac{100 \times 100 \times 100}{12.2} = 81,970 \quad (0.64)$$

$$\frac{60 \times 100 \times 100}{12.2} = 49,180 \quad (0.57)$$

P-33

$$\frac{32 \times 100 \times 100}{12.2} = 26,230 \quad (0.44)$$

$$\frac{80 \times 100 \times 100}{12.2} = 65,570 \quad (0.61)$$

$$\frac{60 \times 100 \times 100}{12.2} = 49,180 \quad (0.44$$

E 11,500

P-14

$$\frac{40 \times 100 \times 100}{12.2} = 32,790 \quad (1.06)$$

P-2

$$\frac{10 \times 100 \times 100}{12.2} = 8200 \quad (0.53)$$

E 11,600

P-15

$$\frac{120 \times 100 \times 100}{12.2} = 98,360 \quad (0.50)$$

$$\frac{79 \times 100 \times 100}{12.2} = 64,750 \quad (0.46)$$

$$\frac{40 \times 100 \times 100}{12.2} = 32,790 \quad (0.43)$$

P-3

$$\frac{190 \times 100 \times 100}{12.2} = 155,740 \quad (0.54)$$

$$\frac{93 \times 100 \times 100}{12.2} = 76,230 \quad (0.48)$$

E 11,700

P-48

$$\frac{40 \times 100 \times 100}{12.2} = 32,790 \quad (0.57)$$

$$\frac{70 \times 100 \times 100}{12.2} = 57,380 \quad (0.59)$$

P-42

$$\frac{220 \times 100 \times 100}{12.2} = 180,330 \quad (0.63)$$

P-41

$$\frac{280 \times 100 \times 100}{12.2} = 229,510 \quad (0.54)$$

E 11,800

P-49 $\frac{40 \times 100 \times 100}{12.2} = 32,790$ (0.48)

P-27 $\frac{80 \times 100 \times 100}{12.2} = 65,580$ (0.57)

P-16 $\frac{50 \times 100 \times 100}{12.2} = 40,980$ (0.50)

$\frac{30 \times 100 \times 100}{12.2} = 24,590$ (0.59)

E 11,900

P-50 $\frac{40 \times 100 \times 100}{12.2} = 32,790$ (0.56)

P-22 $\frac{220 \times 100 \times 100}{12.2} = 180,330$ (0.68)

P-26 $\frac{170 \times 100 \times 100}{12.2} = 139,340$ (0.60)

P-28 $\frac{120 \times 100 \times 100}{12.2} = 98,360$ (0.45)

P-30 $\frac{130 \times 100 \times 100}{12.2} = 106,560$ (0.47)

$\frac{150 \times 100 \times 100}{12.2} = 122,950$ (0.46)

E 12000

P-31 $\frac{33 \times 100 \times 100}{12.2} = 27,050$ (0.55)

$\frac{80 \times 100 \times 100}{12.2} = 65,570$ (0.58)

P-25 $\frac{60 \times 100 \times 100}{12.2} = 49,180$ (0.54)

P-29 $\frac{46 \times 100 \times 100}{12.2} = 37,700$ (0.50)

$\frac{216 \times 100 \times 100}{12.2} = 177,050$ (0.59)

OVER

P-51

$$\frac{90 \times 100 \times 100}{12.2} = 73,770 \quad (0.72)^{\checkmark}$$

$$\frac{90 \times 100 \times 100}{12.2} = 73,770 \quad (0.49)^{\checkmark}$$

$$\frac{130 \times 100 \times 100}{12.2} = 106,560 \quad (0.53)^{\checkmark}$$

E 12,100

P-52 $\frac{127 \times 100 \times 100}{12.2} = 104,100$ (0.46)

$\frac{30 \times 100 \times 100}{12.2} = 24,590$ (0.56)

P-36 $\frac{20 \times 100 \times 100}{12.2} = 16,390$ (0.62)

$\frac{100 \times 100 \times 100}{12.2} = 81,970$ (0.46)

P-32 $\frac{90 \times 100 \times 100}{12.2} = 73,770$ (0.42)

S, 53, 42, 53

C = composite completed

1372

DEPTH

P-1	73.8	not available	TOTAL SAMPLES
2	C ~~548~~	54	~~1320~~ ~~#2~~
3	C 938		~~≈ #2600~~
4	~~595~~	insufficient samples	≈ 1046 C #2 25
5	112	location unknown	#2850
6	200		
7	329	not available	
8	C ~~396~~		
9	C ~~344~~		
10	C ~~325~~		
11	C 350		
12	C ~~326~~		
13	C 350		
14	C 402		
15	C 350		
16	C ~~396~~		
17	C 394		
18	C ~~325~~		
19	C 350		
20	323		
21	C 370		
22	C ~~375~~		
23	C ~~341~~		
24	C ~~318~~		
25	C ~~325~~		
26	C ~~325~~		
27	C ~~506~~		

	DEPTH	N
P- 28	C 352	
29	C 352	
30	C 325	
31	C 336	
32	C 415	
33	C 325	
34	C 435	
35	C 340	
36	C 455	
37	C 405	
38	C 426	
39	C 415	
40	C 364	
41	C 355	
42	C 425	
43	C 300	
44	C 250	
45	C 400	
46	325	
47	C 325	
48	C 350	
49	C 360	
50	C 350	
51	C 370	
52	C 395	
53	335	

SAMPLES TO TUCSON FOR POLISHED SECTIONS

P-1	59'	no sulfides, mod fn diss black metallic specks
P-~~3~~1	38'	trace chalcocite
P-10	36'	suspicious soft black, metallic, no streak (spec from ?)
P-~~9~~10	59'	strong black, metallic mineral, wrong luster for chalcocite but appears to be slightly malleable, peels off in small specks ∴ no streak
P-12	37'	weak, fn dissem black metallic grains
P-12	71'	wk " " " unable to obtain red streak
P-11	33'	black andesite, metallic mineral is magnetite
P-11	53'	and/or hematite, no apparent chalcocite
P-23	33'	weak fn dissem magnetite ?

Crossed out samples were sent to Twin for sulfide studies on 10-26-73

P-1

~~25~~	31
~~30~~	36
~~40~~	42
~~50~~	68 11-30-73
~~55~~	63
~~60~~	47
~~65~~	53
~~70~~	57

P-10

~~15~~
20
25
30
40
~~45~~
50
~~55~~
~~60~~

good sulfides

P-12

~~25~~	67
~~30~~	~~73~~
~~35~~	~~53~~ 11-30-73
~~40~~	~~46~~
~~45~~	~~63~~
~~50~~	~~58~~
~~55~~	~~42~~
~~60~~	37
~~65~~	44
75	

P-11

~~25~~	37
~~30~~	43 11-30-73
~~40~~	~~9~~ 62
~~45~~	59
~~50~~	33
60	53

P-23

~~5~~
~~10~~
~~15~~
~~20~~
~~25~~
~~30~~

all these samples picked for sulfide study 11-30-73

P-8 (0-45')

30
35
40
45

P-38 (0-70)

50
55
60
65
40
45

P-37 (10-50

30
35
40
45
50

P-2

65
70
35
40
45
50
55
62

P-33 (0-75')

15
30
35
50
55
60
60
65

HOLES TO SAMPLE FOR SULFIDES

PIT BOTTOM

SECT N 9700 HOLE P-10, P-11

SECT N 9600 HOLE P-1, P-12, P-38

OR

SECT E 11200 HOLE P-1, P-10, P-37
(H14, H22, 6, 5)

SECT E 11000 HOLE P-17, P-23, P-11, P-44
(H8, H12, 8A, H1, H10, H5, 7A, 2, 3)

SECT E 11300 HOLE P-12, P-40 (H16, H20, HD 19, 18, 3A

HOLES ALREADY ASSAYED!
P-3, P-9, P-10, P-11, P-16, P-18,
P-33, P-37, P-38, P-5[illegible]

DRILL HOLE INTERVALS REMOVED BY MINING

CHECK INDICATES HOLES CLOSEST TO PIT CENTER

SECTION E 11200

✓ P-1	0-75'		
P-10	0-70'	0-72 AVG	3.39 % Cu
✓ P-18	0-30'		
✓ P-37	0-50'	0-52 AVG	0.44 % Cu

SECTION E 11300

P-12	0-82'
P-40	0-40'

SECTION E 11000

✓ P-7	0-55'		
P-11	0-66'	22-62 AVG	0.42 % Cu
P-23	0-40'		
P-44	0-5'		

P-3

5			
~~0~~ - ~~230~~ 50		0.66	0.84
60 - 250		0.54	
230-250		0.32	
250-300	NO SAMPLES		
300-393		0.48	40' MISSING
403-483		0.29	

P-9

82-92		1.63
235-315		0.41
315-335	NO SAMPLES	
335-345		0.84
345-380		0.33

P-10

0-325		2.15

P-11

22-162		0.41
172-282		0.25
292-322		0.48
322-342	NO SAMPLES	
342-350		0.14

P-16

57 - 107		0.32
107 - 207		0.48
207 - 247	NO SAMPLES	
247 - 325		0.18

P-18

30 - 325	0.07

P-33

0 - 62	1.00
62 - 102	0.44
112 - 182	0.61
182 - 242	0.44
242 - 325	0.37

P-37

0 - 312	0.43
312 - 405	0.31

P-38

0 - 243	0.41
243 - 426	0.59

P-51

10 - 180	0.62
180 - 250	0.42
250 - 340	0.58
340 - 370	0.33

P-13

55'-135'	0.30
145'-245'	0.64
245'-265'	0.38
265'-325'	0.57
325'-350	0.34

P-14

0-20	0.38
20-60	1.06
60-390	0.28

P-15

23-53	0.33
53-173	0.50
173-193	0.31
193-273	0.46
273-293	0.32
293-333	0.43
333-350	0.32

P-19

41-51	0.35
51-161	0.51
161-311	0.29
311-341	0.61

P-21

0 - 45'	0.46
45 - 345	0.29

P-24

33 - 313	0.22

P-39

0 - 415	0.21

P-12

20-30		1.14
50-150		0.60
150-250		0.38
250-300		0.58
300-330		0.33

P-17

57-394	≈	< 0.06

P-23

0-122		0.69
122-332	≈	0.15

P-40

0-365	≈	0.12
182-212		0.44

P-44

16-85		0.56
85-135		0.25
165-225		0.34

P-2

32-42	0.51
102-112	0.53
142-548 (many gaps)	0.36

P-8

4-325	1.57

P-34

49-129	0.78
129-219	0.17
229-399	0.68
399-479	0.26

P-35

50-70	0.48
70-120	0.16
130-270	0.39
270-340	0.15

P-41

57 - 337 0.54 (only 1 samples)

P-43

0 - 300 0.27

A-ONLY

P-2

~~32 - 112 (only 2 swaths)~~

142 - 252

252 - 352

P-3

40 - 140

170 - 230

240 - 393

P-9

235 - 345

P-11

22 - 102

122 - 162

162 - 322

P-12

20 - 150

150 - 250

250 - 320

P-13

55 - 135

145 - 245

245 - 325

P-15

63 - 173

173 - 273

273 - 333

NO PULPS IN SAFFORD

P-19

51 - 161

161 - 301

P-21

0 - 85

P-23

0 - 122

COMPOSITE SAMPLES

~~P-10~~

~~0 - 102~~

~~112 - 232~~

~~[redacted] - 325~~

~~P-22~~

~~57 - 157~~

~~157 - 277~~ (~~do not use sample 157-167 B~~)

~~277 - 325~~

~~[redacted]~~

~~0 - 136~~

~~136 - 196~~

~~196 - 326~~

~~P-26~~

~~33 - 113~~

~~[redacted] - 263~~

~~[redacted] - 325~~

~~P-27~~

~~0 — 103~~

~~103 — 183~~

~~(do not use sample 148-156)~~

~~P-28~~

~~18 — 108~~

~~108 — 228~~

~~228 — 338~~

P-29

~~0 — 46~~

~~46 — 136~~

~~136 — 226~~

~~236 — 346~~

~~do not use sample 136-146 B and 220-230~~

~~P-30~~

~~17 — 117~~

~~117 — 217~~

~~227 — 317~~

P-31

~~33 — 143~~

~~143 — 223~~

~~223 — 331~~

Possible Holes to Deepen in Search of Sulfides

	P-8	325'	fair chalcocite
	P-21	370'	small amounts $CuFeS_2$, Cu_2S, cuprite, etc 0.29%
	P-30(?)	325'	possibly fair Cu_2S
*	P-35	340'	disseminated sulfides
	P-38	426	0.59% Cu
	P-39?	415	0.21%
	P-44?	240	0.34%
*	P-47	325	±1% $CuFeS_2$ last two feet
	P-51?	370	0.33%
*	P-52	395	

PROPOSED DRILLING ORDER

1)	E 10,700	N 9,900
2)	E 10,700	N 9,700
3)	E 10,800	N, 9,600
4)	E 10,800	N 9,700
5)	E 10,800	N 9,800
6)	E 10,900	N 9,700
7)	E 11,000	N 9,700
8)	E 11,000	N 9,600
9)	E 11,000	N 9,400
10)	E 11,100	N 9,800
11)	E 11,100	N 9,700
12)	E 11,100	N 9,600
13)	E 11,100	N 9,500
14)	E 11,100	N 9,300

1733
390
~~480~~
800
3408
~~4~~
13632

DRILLING COST ESTIMATE — SAN JUAN

Nov 8, 1973 Bob Helming

1) OXIDE ORE DEVELOPMENT

a) required new rotary drill holes

17380 ft @ $6.00/ft — 104,280

b) conditional rotary drill holes

3900 ft @ $6.00/ft — 23,400

2) OXIDE ORE EXPLORATION

~~2400~~ 4800 ft @ $6.00/ft — 14,400 ~~28,800~~

3) DEEP SULFIDE EXPLORATION

~~3~~ 5 HOLES — ~~12000~~ 15000 ft @ $15/ft — ~~180,000~~ 225,000

4) DRILL SITE PREPARATION — 10,000

$ 332,080

increase this number to this 392,080.

amount budgeted on RFA #335-46 — $ 420,000

X 128 F W P REV 6-59

Hold for - line spring 6-73

REQUEST FOR APPROPRIATION

NUMBER 335-46

REQUESTS MUST BE FILED FOR ITEMS COSTING $250.00 OR MORE

LOCATION Tucson, Arizona DIVISION M & M DATE May 3, 1973

REQUEST IS HEREBY MADE FOR AN APPROPRIATION OF $ 537,000.00 FOR ITEMS NOTED BELOW

APPROVED BY

REQUESTED BY _____ DATE _____	PRESIDENT _____ DATE _____
VICE PRESIDENT _____ DATE _____	CHM. OF BOARD _____ DATE _____

COMPLETE DESCRIPTION AND ANALYSIS OF ESTIMATED COST OF ITEMS TO BE EXPENSED

W.O. NUM.	ACC'T NUM.		$
		SAFFORD PROJECT	
		San Juan Area – San Juan Property only	
		1. Geophysics (I.P. & hand magnetics)	7,500
		2. Assaying & Misc.	17,000
		3. Option payments	92,500
		4. Drilling including roads & drill site	420,000
		TOTAL EXPENSED	$ 537,000

AUTHORIZED BUDGET ADDER YES [ ] NO [ ] DIV. CONTROLLER _____

COMPLETE DESCRIPTION AND ANALYSIS OF ESTIMATED COST OF ITEMS TO BE CAPITALIZED

W.O. NUM	ACC'T NUM		$
		To be capitalized if project becomes operating property	
		TOTAL CAPITALIZED	$

GRAND TOTAL → $537,000.00

INDICATE BELOW THE COST SAVINGS RESULTING FROM THIS EXPENDITURE AND HOW THE EXPENDITURE WILL BE RECOVERED, OR WHY THE EXPENDITURE IS NECESSARY.

This RFA is to cover expenses for an exploration program for the remainder of 1973 on the San Juan contingent on acquiring favorable Superior Court rulings to control the property by July or August of 1973. If the San Juan does not become available this expense will not be incurred.

Add surveying & white whiteke

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BLUE COPY — DIVISIONAL COPY
DIVISIONAL COPY

USE REVERSE SIDE IF NEEDED

DEVELOPMENT OF OXIDE BODY (≥0.4 % Cu)

1) continue assaying P series drill holes and attempt to obtain information on all other drill holes, e.g. SD, H, etc.
2) rotary drill new holes indicated on map and cross-sections to fill in gaps; check holes with marginal assays; and establish limits to known ore zones
3) rotary holes to test any area considered for waste dumping

EXPLORATION FOR OXIDE ORE

1) drill a series of rotary holes 200-300 feet apart around the untested periphery of the stock starting on the northeast and northern margins where two Rare Metals holes drilled significant mineralization, especially RA-2
2) low priority rotary drilling to 500-600 feet to further test mineralization found in ES-4

EXPLORATION FOR SULFIDE ORE

1) deep hole (3000') at approximately E10,700 N9,800

2) deep hole (3000+) in approximate center of Key claims, east central area of Sec. 35

3) deepen one of the holes in area of E 12,000 N 9,700

4) continue deepening ES-4, ES-27, ES-28 for assessment and exploration

COST ESTIMATE FOR ASSAYING & MISC — SAN JUAN

Nov 8, 1973 - Bob Helming

1) OXIDE ORE DEVELOPMENT

a) assaying new drill holes
1738 samples @ $2.25 ~~3,910~~ 7820

b) assaying conditional holes
390 samples @ $2.25 ~~880~~ 1760

2) OXIDE EXPLORATION
240 samples @ $2.25 ~~540~~ 1080

3) SULFIDE EXPLORATION
800 samples @ $3.00 2400

$13,600

4) ~~CASING, PIPE, PUMP FOR TEMPORARY WATER SUPPLY~~ 10,000 ?

5) ~~Metallurgy~~

$17,730

amount budgeted on RFA # 335-46 $17,000

DEVELOPMENT OF OXIDE BODY (≥0.4% Cu)

1) continue assaying P series drill holes and attempt to obtain information on all other drill holes, e.g. SD, H, etc.
2) rotary drill new holes indicated on map and cross-sections to fill in gaps; check holes with marginal assays; and establish limits to known ore zones
3) rotary holes to test any area considered for waste dumping

EXPLORATION FOR OXIDE ORE

1) drill a series of rotary holes 200-300 feet apart around the untested periphery of the stock starting on the northeast and northern margins where two Rare Metals holes drilled significant mineralization, especially RA-2
2) low priority rotary drilling to 500-600 feet to further test mineralization found in ES-4

EXPLORATION FOR SULFIDE ORE

1) deep hole (3000') at approximately E10,700 N9,800

2) deep hole (3000+) in approximate center of Key claims, east central area of Sec. 35

3) deepen one of the holes in area of E 12,000 N 9,700

4) continue deepening ES-4, ES-27, ES-28 for assessment and exploration

COST ESTIMATE FOR ASSAYING & MISC — SAN JUAN

Nov 8, 1973 - Bob Helming

1) OXIDE ORE DEVELOPMENT

a) assaying new drill holes
1738 samples @ $2.25 — 3,910

b) assaying conditional holes
390 samples @ $2.25 — 880

2) OXIDE EXPLORATION
240 samples @ $2.25 — 540

3) SULFIDE EXPLORATION
800 samples @ $3.00 — 2400

4) CASING, PIPE, PUMP FOR TEMPORARY WATER SUPPLY ? — 10,000

$17,730

amount budgeted on RFA # 335-46 — $17,000

DRILLING COST ESTIMATE — SAN JUAN

Nov 8, 1973 Bob Helming

1) OXIDE ORE DEVELOPMENT

a) required new rotary drill holes
17380 ft @ $6.00/ft — 104,280

b) conditional rotary drill holes
3900 ft @ $6.00/ft — 23,400

2) OXIDE ORE EXPLORATION
2400 ft @ $6.00/ft — 14,400

3) DEEP SULFIDE EXPLORATION
3 HOLES - 12000 ft @ $15/ft — 180,000

4) DRILL SITE PREPARATION — 10,000

$332,080

amount budgeted on RFA #335-46 — $420,000

P holes to assay

ASSAY

1)
P-47
P-43
P-34
P-8
P-20
P-35

2) P-2
P-41
P-4
P-42
P-22
P-50

3) P-31
P-52
P-36
P-32
P-26

4) P-25
P-6
P-27
P-28
P-29
P-30

5) P-45
P-46
P-48
P-49

PROPOSED DRILLING ORDER

SAN JUAN

1)	E 10,700	N 9,900
2)	E 10,700	N 9,700
3)	E 10,800	N, 9,600
4)	E 10,800	N 9,700
5)	E 10,800	N 9,800
6)	E 10,900	N 9,700
7)	E 11,000	N 9,700
8)	E 11,000	N 9,600
9)	E 11,000	N 9,400
10)	E 11,100	N 9,800
11)	E 11,100	N 9,700
12)	E 11,100	N 9,600
13)	E 11,100	N 9,500
14)	E 11,100	N 9,300

Paul E. Copy

X-128 F.W.P. REV. 6-59

REQUEST FOR APPROPRIATION

NUMBER 335-43

REQUESTS MUST BE FILED FOR ITEMS COSTING $250.00 OR MORE

LOCATION Tucson, Arizona DIVISION M & M DATE June 11, 1973

REQUEST IS HEREBY MADE FOR AN APPROPRIATION OF $ 131,608.00 FOR ITEMS NOTED BELOW

APPROVED BY

REQUESTED BY _____ DATE _____ | PRESIDENT _____ DATE _____

VICE PRESIDENT _____ DATE 6/13/73 | CHM. OF BOARD _____ DATE _____

COMPLETE DESCRIPTION AND ANALYSIS OF ESTIMATED COST OF ITEMS TO BE EXPENSED

W.O. NUM.	ACC'T NUM.		$
		SAFFORD PROJECT - SAN JUAN AREA Including limited activity on the San Juan and including Key, Bardwell, Big Ben, Lead Hill, Copper Chiefs, Flat Tops, Melody, and Knob Hill (Blue Bell), which are adjacent properties. See reverse side of page for itemized costs	

AUTHORIZED BUDGET ADDER YES ☐ NO ☐ DIV. CONTROLLER _____ TOTAL EXPENSED $ 131,608

COMPLETE DESCRIPTION AND ANALYSIS OF ESTIMATED COST OF ITEMS TO BE CAPITALIZED

W.O. NUM.	ACC'T NUM.		$
		To be capitalized if project becomes an operating property.	

TOTAL CAPITALIZED $

GRAND TOTAL → $131,608.00

INDICATE BELOW THE COST SAVINGS RESULTING FROM THIS EXPENDITURE AND HOW THE EXPENDITURE WILL BE RECOVERED, OR WHY THE EXPENDITURE IS NECESSARY.

This RFA is to cover expenses for a program to maintain the area including and surrounding the San Juan and isolated parcels to the east (see attached map) for the remainder of 1973. This would include assessment work and taxes, legal work and some limited metallurgical testing on the San Juan but does not include option payments. If and when the San Juan becomes available because of favorable rulings in the Court, then additional expenses will be needed per the attached RFA 335-46, for drilling, geophysics, assaying and option payments.

See reverse side of page for description and analysis of estimated cost of items to be expensed.

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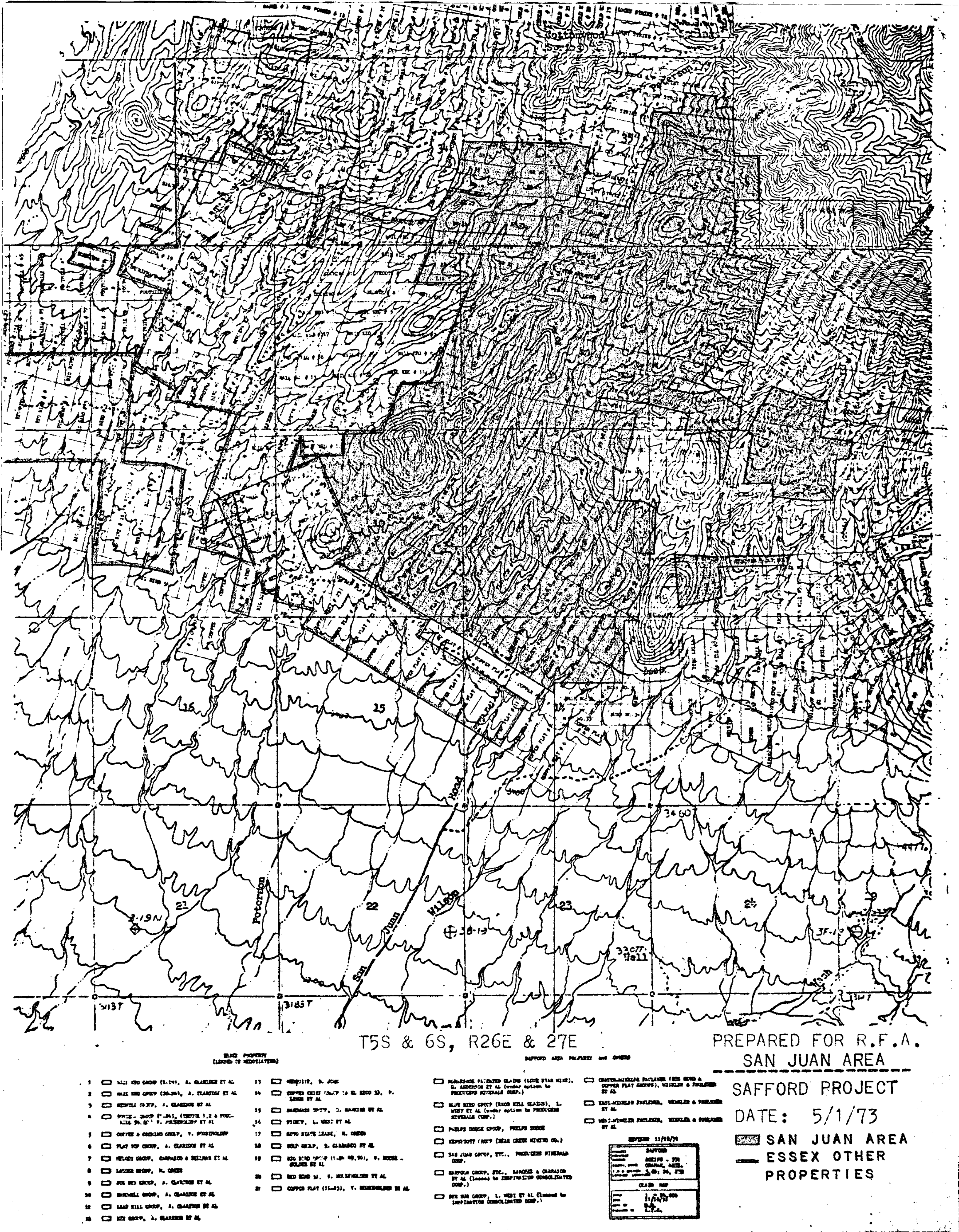
USE REVERSE SIDE IF NEEDED

Description and analysis of estimated cost of items to be expensed

1.	Legal, including: Producers Suit Counter Suit Taxes by Bud Jones, etc. Court appearances Smith, Allen et al.	$ 55,000.00
2.	Metallurgical test work for litigation purposes	5,000.00
3.	Assessment work (including San Juan) Parcels above 155 unpatented claims	15,500.00
4.	Geophysics	3,500.00
5.	Taxes - patented claims (estimate)	15,000.00
6.	Surveying, Drafting, Map Reproduction & Misc.	5,000.00
7.	Option payments per parcels as indicated, not including San Juan - 4-26-73 thru 12-31-73	31,808.00
8.	Aerial photos, base map prep.	800.00
	Total	$131,608.00



Cottonwood
Peterson
33
34
35
36
16
15
14
13
21
22
23
24
Road
Potrero
San Juan
Wilson
3460
3-19N
3B-13
3F-13
3307T
Well
Wash
3113T
3185T
T5S & 6S, R26E & 27E
PREPARED FOR R.F.A.
SAN JUAN AREA
SAFFORD PROJECT
DATE: 5/1/73
SAN JUAN AREA
ESSEX OTHER
PROPERTIES
PHELPS DODGE GROUP, PHELPS DODGE
CLAIM MAP

BLOCK E 11,000 N9510 0.56%

$$\frac{(80 \times 50 \times 100) + (80 \times 95 \times 100)}{12} = 96,700$$

BLOCK E 11,000 N 9,700 0.41%

$$\frac{(95 \times 95 \times 100) + (95 \times 50 \times 100)}{12} = 114,800$$

BLOCK E 11,000 N 9,800 0.69%

$$\frac{(80 \times 50 \times 100) + (65 \times 50 \times 100)}{12} = 60,400$$

BLOCK E 11,200 N 9,500 0.43%

$$\frac{260 \times 100 \times 100}{12} = 216,700$$

BLOCK E 11,200 N9590 0.5' estimate

$$\frac{250 \times 95 \times 100}{12} = 197,900$$

BLOCK E 11,200 N 9700 2.15%

$$\frac{250 \times 100 \times 100}{12} = 208,300$$

BLOCK E 11,300 N 9600 0.60

$$\frac{70 \times 100 \times 100}{12} = 58,300$$

TOTAL 953,100

P-3

Mailed to Lyall
6-11-73

1	5-10
2	10-20
3	20-30
4	40-50
5	60-70
6	99-109
7	109-119
8	119-129
9	129-140
10	150-160
11	170-180
12	190-200
13	220-230

Ave % Cu = .66

P-10

57	0-12
58	12-22
59	22-32
60	32-42
61	42-52
62	52-62
63	62-72
64	72-82
65	92-102
66	112-122
67	122-132
68	132-142
69	142-152
70	152-162
71	162-172
72	172-182
73	182-192
74	192-202
75	212-222
76	222-232
77	242-252
78	252-262
79	262-272
80	272-282
81	282-292
82	292-302
83	312-325

AVG % Cu = 2.15

P-33

147	0-12
148	12-22
149	22-32
150	32-42
151	42-52
152	52-62
153	62-72
154	72-82
155	82-92
156	92-102
157	112-122
158	122-132
159	132-142
160	152-162
161	162-172
162	172-182

AVG % C_v = .72

P-38

234	243-253
235	253-263
236	263-273
237	273-283
238	283-293
239	293-303
240	303-313
241	313-323
242	323-333
243	333-343
244	343-353
245	363-373
246	373-383
247	393-393
248	403-413
249	413-423
250	423-426

AVG % Cu = .78

P-51

251	10-20
252	20-30
253	30-40
254	40-50
255	50-60
256	60-70
257	70-80
258	80-90
259	90-100
260	100-110
261	110-120
262	120-130
263	130-140
264	140-150
265	150-160
266	160-170
267	170-180

AVG % Cu = .58