

1435 S. 10th AVE.

P. O. BOX 1889

DUPLICATE

Jacobs Assay Office

Registered Assayers



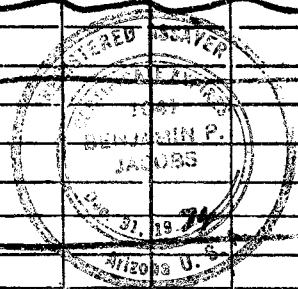
PHONE 622-0813

Certificate No. 89299

TUCSON, ARIZONA 85702 April 25 1974

Sample Submitted by Mr. Exorex International, Inc. - Mr. Ken Jones

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per cent Wet Assay	Per cent Wet Assay
<u>Composite</u>		\$					
<u>nos. 1163-64-65-66-67</u>	<u>0.006</u>	<u>-</u>	<u>0.65</u>				
<u>nos. 1170-71-72.</u>							
<u>3 - I.A.T. Assays made on above sample.</u>							



* Gold Figured \$85.00 per oz. Troy

Charges \$ 7.50

Very respectfully,

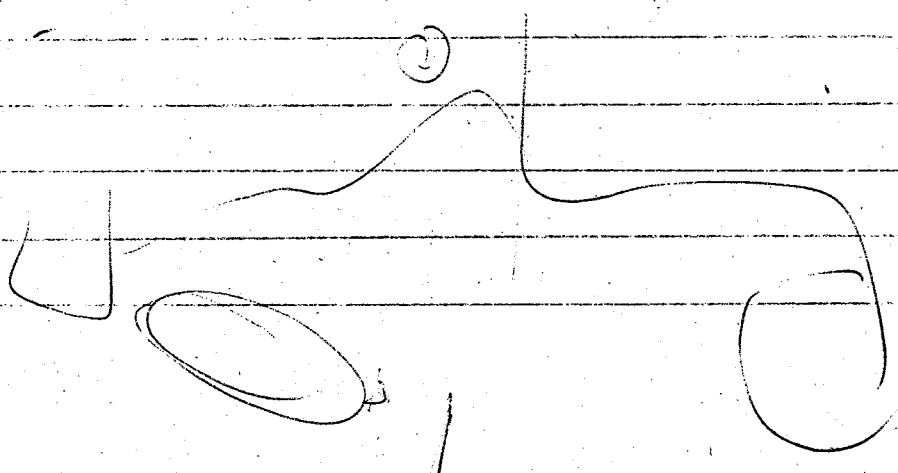
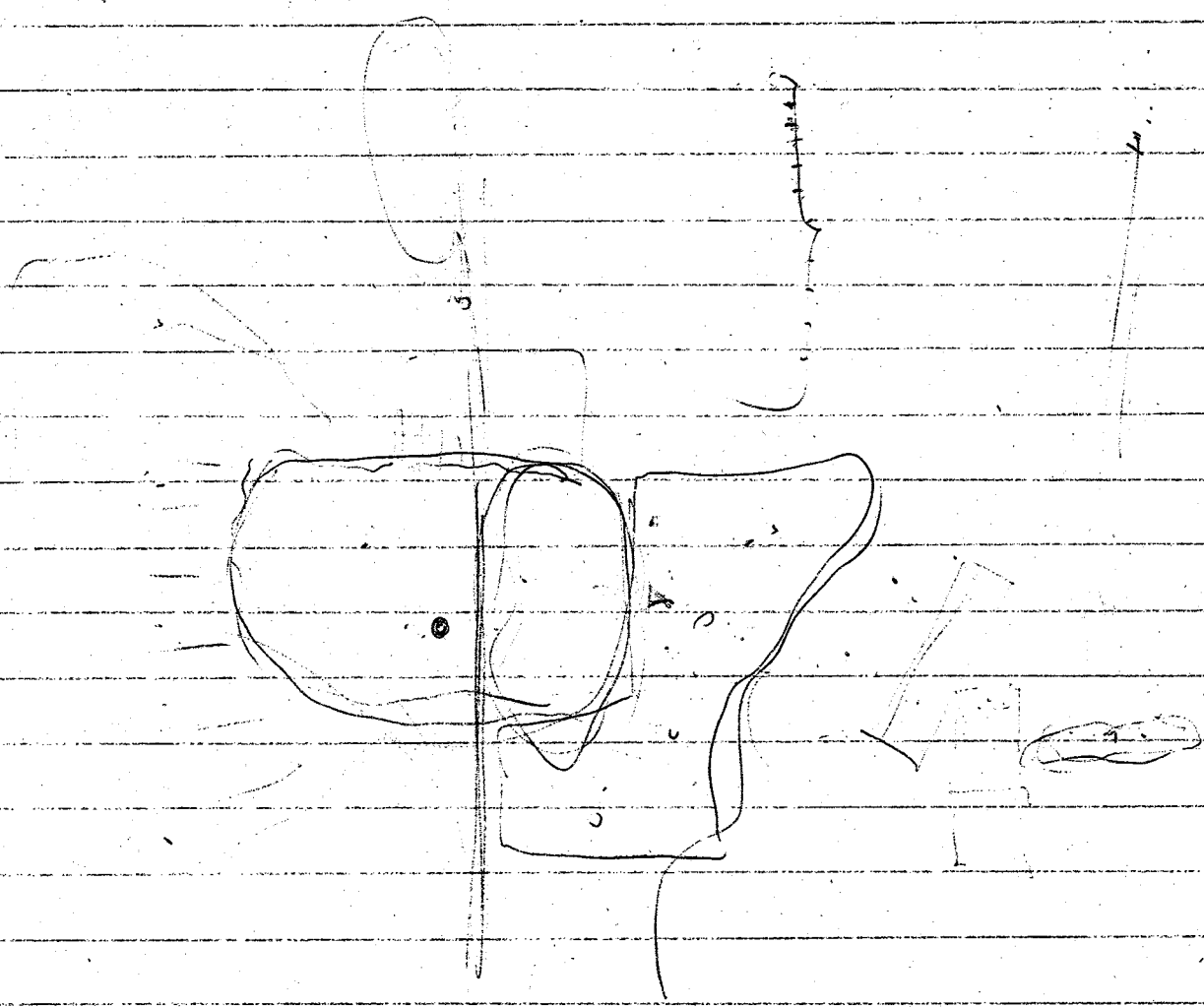
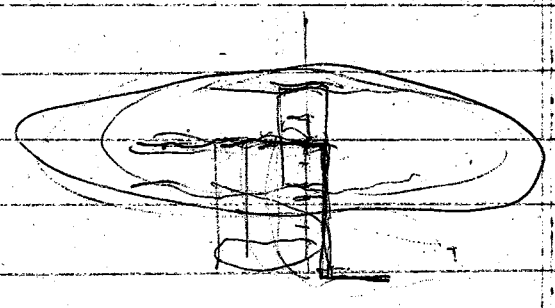
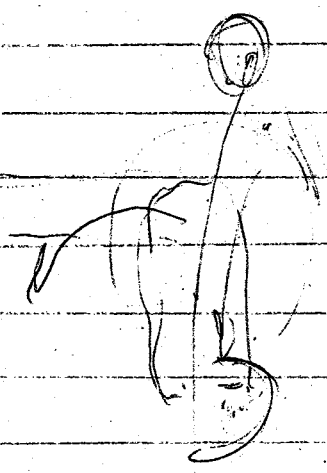
Ben P. Jacobs

6 Austerlitz sample re-runs @ 3 assay tons

1163	1170	1188	1190
1164	1171	1189	1191
1165	1172	1190	1193
1166			1194
1167			1195
1168			1196
1169			

On Wed May 1 called Jacobs to have these samples run on 3 assay ton basis

0 DDT 77
5977.7
3.1
591



MONTANO MINE

<u>Cu</u>	<u>Pb.</u>	<u>Zn</u>	<u>Ag</u>
400,000	7,750,000	5000	27 3,000
3,129,114	3,858,937	2772	226,952
3,129,114	11,462,536	9056	746,487
	9,952,113	8506	738,611
	8,408,635	7579	723,600
	4,590,732	3802	329,578
<hr/>	<hr/>	<hr/>	<hr/>
3,529,114	46,022,953	36,715	3,058,168
68 ⁴	70000 @ 19¢	150 ⁰⁰	3 ⁰⁰

\$ 2,399,798
 8,744,361
 5,507,250
 15,290,840
 12,082,633
~~1,111,111~~
 \$ 44,24882

Zn
 4,221,175
 11,410,786
 9,923,760
 8,322,833
 5,097,684

 38,976,238
 @ 31¢

9
 11
 13
 15
 17
 19
 21
 23
 25
 27
 29
 31
 33
 35
 37
 39
 41
 43
 45

1435 S. 10th AVE.

P. O. BOX 1889

DUPLICATE

Certificate No. **59295**

Sample Submitted by Mr.

Ernie Amundson Inc

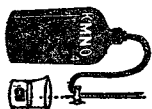
TUCSON, ARIZONA 85702

April 17

197 *4*

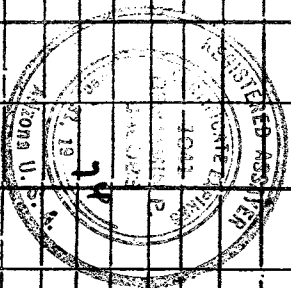
Jarvis Assay Office

Registered Assayers



PHONE 622-0813

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay Per cent Wet Assay Per cent Wet Assay
01173	Trace	\$	0.25				
74	0.001		0.25				
75	0.005		0.35	0.04			
76	Trace		0.20				
77	0.05		5.35	1.25			
78	Trace		0.15				
79	Trace		0.30				
01180	0.005		0.55				
81	0.001		0.15				
82	0.03		0.20				
83	0.61		0.15				
84	Trace		0.10				
85	Trace		0.15				
86	0.005		0.20				



• Gold Figured \$35.00 per oz. Troy

Charges \$ **59.90**

Very respectfully,

Ernie Amundson

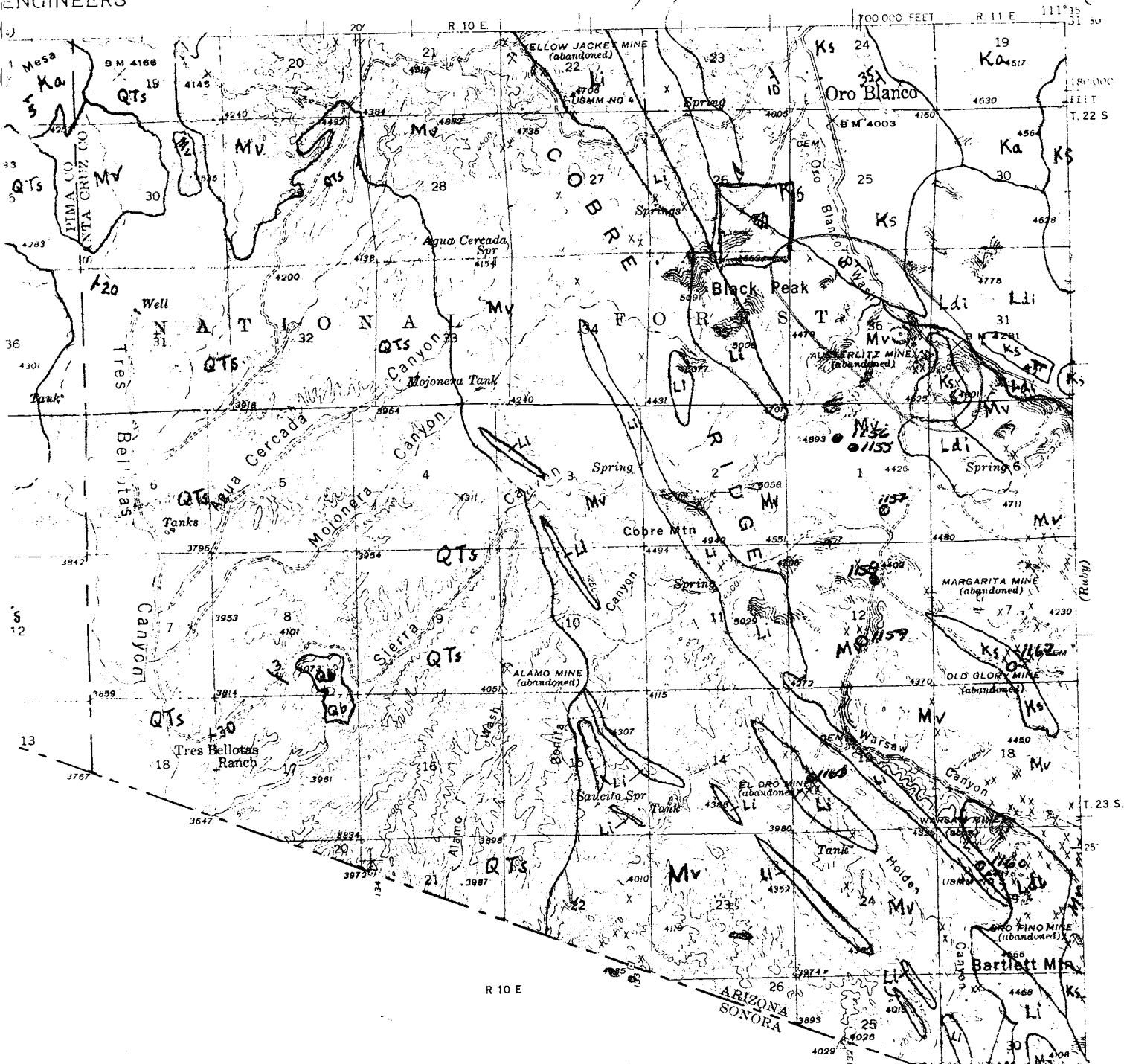
Sample Number	Description	1 ounces gold	2 ounces Silver	3 % Copper	4 Value per ton gold @ \$150	5 Value per ton silver @ \$5	6 Gross Value	7 COMMENT	8	9	10
1	50 ton bulk sample	0.020	1.05	0.15	\$ 3.00	\$ 5.25	\$ 8.25	Samples taken by Polaris Corp. in 1963 and shipped to ASARCO's Hayden Smelter.			
2	" " " "	0.015	1.00	0.10	2.25	5.00	7.25				
3	" " " "	0.025	1.65	0.26	3.75	8.25	12.00				
4	" " " "	0.085	3.15	1.07	5.25	15.75	21.00				
5	" " " "	0.080	1.10	0.16	4.50	5.50	10.00				
7	1151 Specimens from small stockpile	0.59	5.0		88.50	25.00	113.50	High grade ore in dump of Horton Tunnel			
8	1153 Chip sample of small outcrop	trace	0.1		- 0 -	0.50	0.50	Weak manganese stain			
9	1154 5.0 ft. chip of outcrop	0.17	0.7		25.50	3.50	29.00	Good iron iron oxides			
10	1155 Grab	0.06	0.6	0.02	9.00	3.00	12.00	Altered volcanics north of stock			
11	1156 "	0.03	0.5	0.02	4.50	2.50	7.00	" " " " " "			
12	1157 "	0.03	0.5	0.09	4.50	2.50	7.00	Iron stained mine dump, some pyrite, copper oxides			
13	1163 Chip of 10 ft. square outcrop	0.02	0.35		3.00	3.50	6.50	Weak quartz veinlets and iron oxides			
14	1164 Chip of 3 ft. square outcrop	0.02	0.5		3.00	2.50	5.50	" " " " " "			
15	1165 3.0 ft. chip of outcrop	0.005	0.3		0.75	4.00	4.75	Fair quartz veinlets weak iron oxides			
16	1166 5.0 " " " "	0.01	1.0		1.50	5.00	6.50	Represents at least 100 ft. width			
17	1167 Chip of 2 ft. by 3 ft. outcrop	0.02	1.4		3.00	7.00	10.00				
18	1168 Grab of est. 5 ton stockpile	0.32	3.3		33.00	36.50	69.50	Breccia abundant, iron oxides and porous spongy quartz			
19	1169 Grab of est. 25 ton stockpile	0.02	1.4		3.00	7.00	10.00	Massive white quartz, some iron oxides & pyrite			
20	1170 4.0 ft. vertical chip of outcrop	0.01	0.7		1.50	3.50	5.00	May represent 50 to 100 ft. thickness			
21	1171 Grab of outcrop	0.01	0.8		1.50	4.00	5.50	Abundant quartz veinlets, little iron oxide			
22	1172 Grab of dump of shaft	0.01	0.35		1.50	16.00	17.50	Very weak quartz and pyrite			
23	1173 Grab of outcrop in gulch	Trace	0.25		- 0 -	1.25	1.25	Moderate iron oxides			
24	1174 " " " " " "	0.005	0.15		0.75	0.75	1.50	Altered volcanics fair iron oxides			
25	1175 5.0 ft. chip sample	0.005	0.35	0.04	0.75	1.75	2.50	Iron stained band exposed in canyon			
26	1176 4.0 ft. chip sample	Trace	0.20		0	1.00	1.00	Fair iron oxides and quartz veinlets			
27	1177 7.0 ft. chip sample	0.05	5.35	1.25	7.50	26.75	34.25	South wall of bulk sample locality No. 4			
28	1178 5.0 ft. chip sample of outcrop	Trace	0.15		0	0.75	0.75	Strong quartz veinlets, very weak iron oxide			
29	1179 Grab of dump of tunnel	Trace	0.30		0	1.50	1.50	Minor quartz veinlets and pyrite			
30	1180 7.0 ft. horizontal chip sample	0.005	0.35		0.75	1.75	2.50	Good iron oxides, trace copper oxides			
31	1181 5.0 ft. chip sample of outcrop	0.005	0.15		0.75	0.75	1.50	Broken, weak iron oxides			
32	1182 3.5 ft. vertical chip	0.03	0.20		4.50	1.00	5.50	Good quartz veinlets and iron oxides			

STATES
OF THE ARMY
ENGINEERS

Daly

ARIZONA
ORO BLANCO QUADRANGLE
15-MINUTE SERIES

(Tabular)



R 10 E

ARIZONA
SONORA

(Flung)

T. 23 S.

25

24

23

22

21

20

19

1000 x 800	6400
150 x 300	3600
150 x 300	3600
200 x 800	12,800
	26,400 TONS/FT
	26,400,00

side of hill

$$100 \times 1200 = 9600$$

Hill Top $150 \times 300 = 3600$

above
barley
tunnel $100 \times 1500 = 4000$

Ragna
pak. $300 \times 1000 = 24,000$

$$41,200 \text{ TONS/FT.}$$

MON. 8 APR.

MARCH							APRIL 1974							MAY																												
31	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
S	M	T	W	T	F	S		S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
LAST MONTH							1974							NEXT MONTH																												

1974 CALENDAR

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9
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19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23
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27	27	27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31	31	31

398-0960

AVERAGE VALUE OF 5 50 TON SAMPLES
 SHIPPED TO ASARCO'S HAYDEN SMELTER 1963

JACOBS ASSAY		VALUE	ASARCO ASSAY		VALUE
oz. Au.	.025	\$ 3.75	.019		\$ 2.85
oz. Ag	1.59	7.95	1.60		8.00
% Cu	.35%	4.76	.24		3.26
		<u>\$ 16.46</u>			<u>\$ 14.11</u>

USING gold @ \$150⁰⁰ per ounce, silver @ \$5⁰⁰ per ounce, and Copper @ \$0.68 per pound.

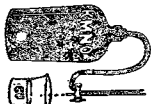
11.70
 10 85

1435 S. 10th Ave.

P. O. BOX 1009

PHONE 622-0913

S X Nichols Assay Office



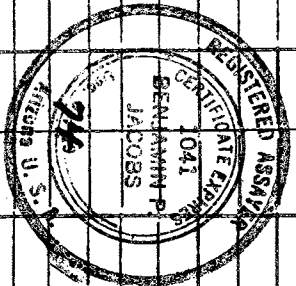
REGISTERED Assayers

Certificate No. **59281** APR - 5 1914 TUCSON, ARIZONA 85702

April 4th 1914

Sample Submitted by Mr. **Reference International Inc Mr Van Jansa**

SAMPLE MARKED	GOLD		SILVER		COPPER		LEAD	
	Ozs. per ton	Value per ton	Ozs. per ton	Value per ton	Per cent Wet Assay	Per cent Wet Assay	Per cent Wet Assay	Per cent Wet Assay
0.1151	0.59		57.0					
42	0.01		0.4					
43	Trace		0.1		0.02			
44	0.17		0.7		0.03			
44'	0.06		0.6		0.02			
46	0.03		0.5		0.02			
47	0.03		0.5		0.09			
48	0.05		0.6					
49	0.02		0.2					
0.060	0.005		0.2		0.05			
51	0.07		0.3					
0.1162	0.01		0.3					



• Gold Figured \$885.00 per oz. Troy

Charges \$ **5.70**

Very respectfully

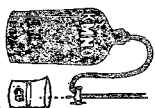
Ben P. Jacobs

1435 S. 10th AVE.

P. O. BOX 1039

Jacobs Assay Office

Registered Assayers



APR 11 1974

PHONE 622-0813

Certificate No. 59290

TUCSON, ARIZONA 85702

APPROVED 1974

Sample Submitted by Mr.

Prox International Inc

SAMPLE MARKED

GOLD
Ozs. per ton
ore

GOLD
Value per ton
\$

SILVER
Ozs. per ton
ore

COPPER
Per cent
Wet Assay

LEAD
Per cent
Wet Assay

Per cent
Wet Assay

Per cent
Wet Assay

401163

0.02

\$

0.7

0.5

0.8

0.8

0.8

64

0.02

\$

0.5

0.8

0.8

0.8

0.8

65

0.005

\$

1.0

1.4

1.4

1.4

1.4

66

0.01

\$

1.4

1.4

1.4

1.4

1.4

67

0.02

\$

1.4

1.4

1.4

1.4

1.4

68

0.25

\$

1.4

1.4

1.4

1.4

1.4

69

0.02

\$

1.4

1.4

1.4

1.4

1.4

01170

0.01

\$

0.7

0.7

0.7

0.7

0.7

71

0.01

\$

0.8

0.8

0.8

0.8

0.8

01172

0.01

\$

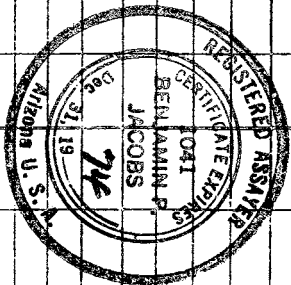
3.1

3.1

3.1

3.1

3.1



• Gold Figured \$35.00 per oz. Troy

Charges \$ 40.00

Very respectfully,

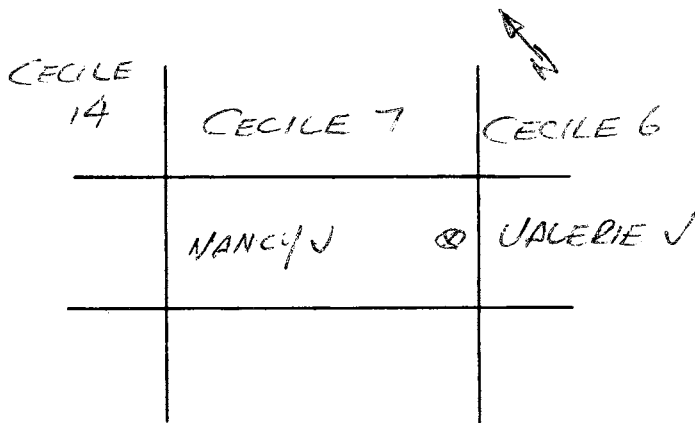
Ben F. Jacobs

Ready to be
Recorded

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the NANCY J lode mining claim was located by ESSEX INTERNATIONAL, INC. on APRIL 6, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NW-SE and is situated in the ORO BLANCO Mining District, SANTACRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SE direction to the south center end monument or stake and 1450 feet in a NW direction from the location monument or stake to the north center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called _____ thru _____ and is located approximately in SW part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, Santa Cruz County, Arizona.
(some prominent or permanent reference or monument)

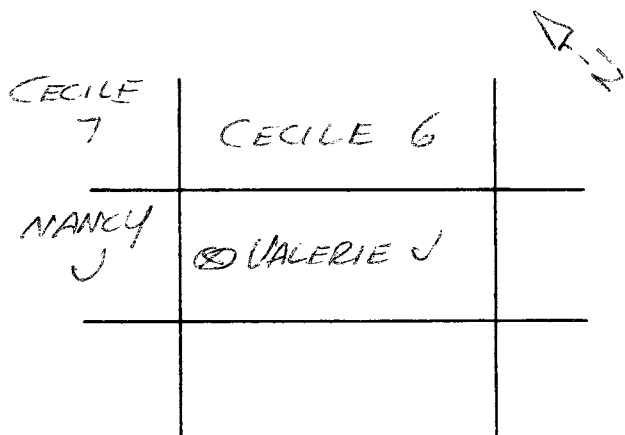


ESSEX INTERNATIONAL, INC.
by: Dorothy C. Jones Agent.
Locator
Dorothy C. Jones
WITNESS

ARIZONA
 NOTICE OF LOCATION
 (LODE)

NOTICE IS HEREBY GIVEN that the VALERIE J lode mining claim was located by ESSEX INTERNATIONAL INC on APRIL 6, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NW-SE and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 60 feet in a NW direction to the north center end monument or stake and 1440 feet in a SE direction from the location monument or stake to the south center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called _____ thru _____ and is located approximately in SW part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

SANTA CRUZ County, Arizona.
 (some prominent or permanent reference or monument)

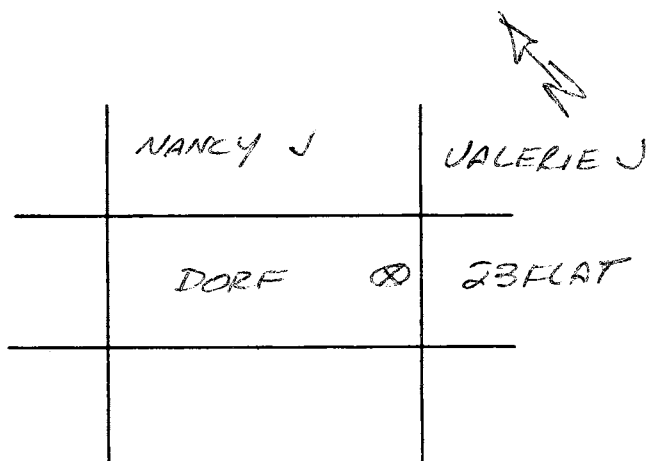


ESSEX INTERNATIONAL, INC.
 by John Kenneth Jones, AGENT
 Locator
Bartholomew A. Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the DORF lode mining claim was located by ESSEX INTERNATIONAL, INC. on APRIL 6, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NW-SE and is situated in the ~~SE~~ ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SE direction to the south center end monument or stake and 1450 feet in a NW direction from the location monument or stake to the north center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called _____ thru _____ and is located approximately in SW part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

SANTA CRUZ County, Arizona.
(some prominent or permanent reference or monument)

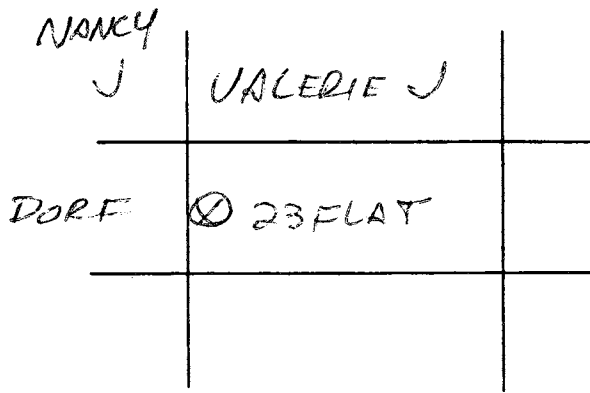


ESSEX INTERNATIONAL, INC.
by: John Kennedy Jones AGENT
Locator
Dorothy A. Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the 23 FLAT lode mining claim was located by ESSEX INTERNATIONAL, INC on April 6, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NW-SE and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NW direction to the north center end monument or stake and 1450 feet in a SE direction from the location monument or stake to the south center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called _____ thru _____ and is located approximately in SW part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

SANTA CRUZ County, Arizona.
(some prominent or permanent reference or monument)

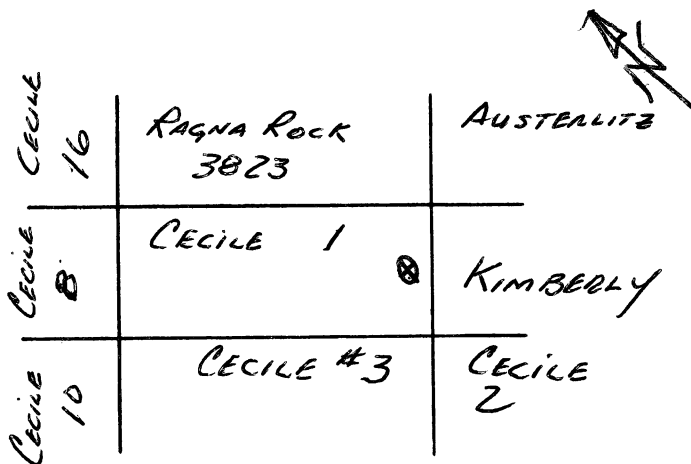


ESSEX INTERNATIONAL, INC.
by John Kenneth Jones, AGENT
Locator
Martha A. Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 1 lode mining claim was located by ESSEX INT'L INC. on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NW-SE and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NW direction to the NW center end monument or stake and 50 feet in a SE direction from the location monument or stake to the SE center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in CENTER NE-SE 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

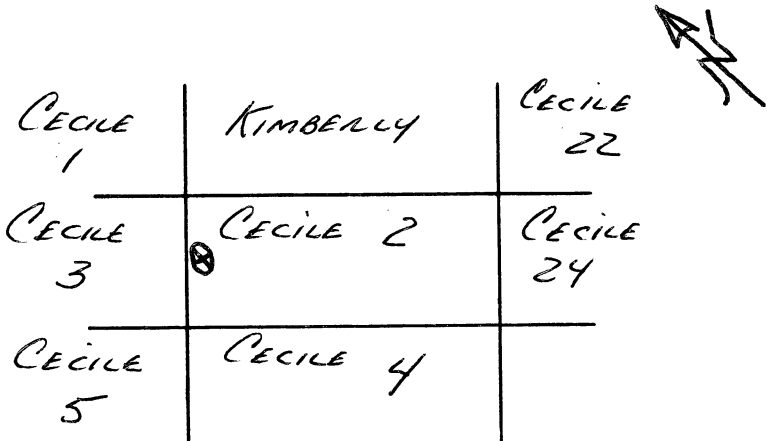


ESSEX INTERNATIONAL, INC
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 2 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 19 74. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTH EAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTH WEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in SW 1/4 - SE 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

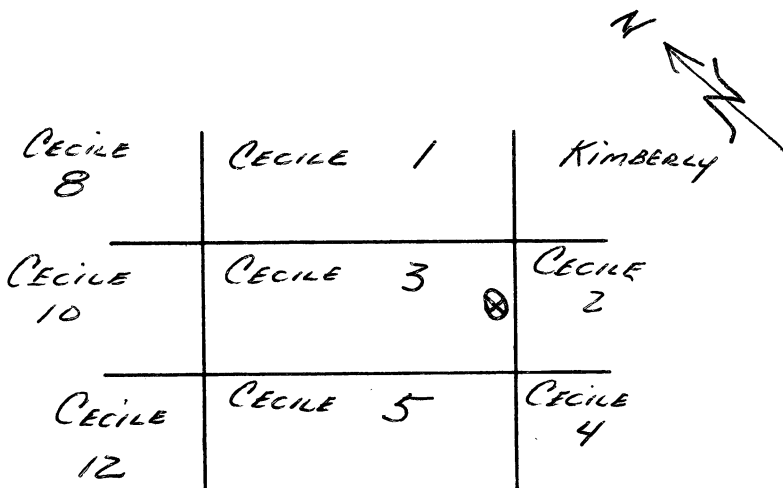


Essex International Inc
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 3 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the Oro Blanco Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NW 1/4 - SE 1/4 part of Section _____ Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

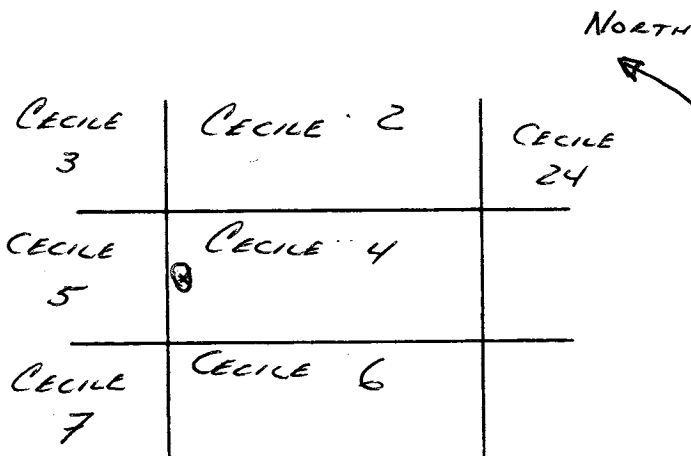


Essex International Inc
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 4 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in SW1/4-SE1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

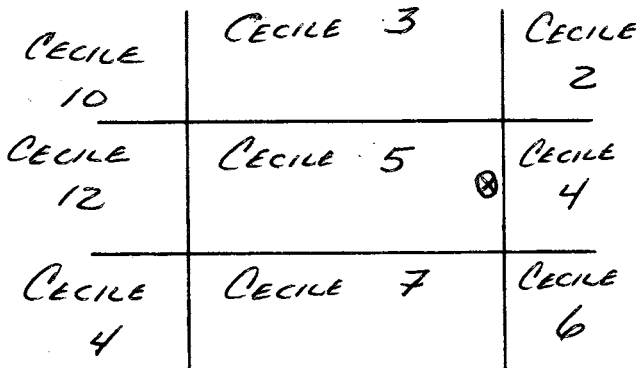


Essex International Inc
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 5 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the Oro Blanco Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NE 1/4 - SW 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

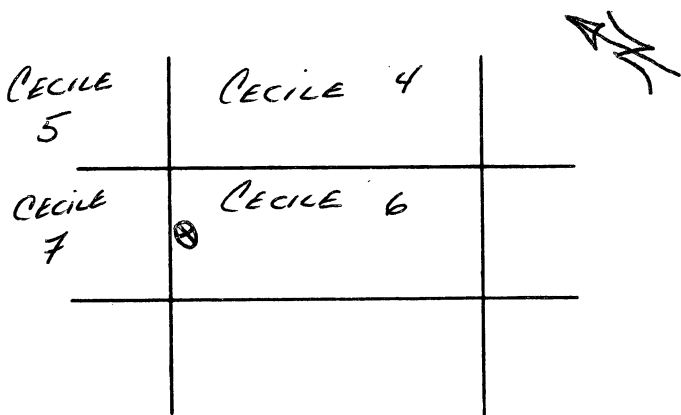


ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 6 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in SW 1/4 - SE 1/4 part of Section 36 Township 22 S, Range 70 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

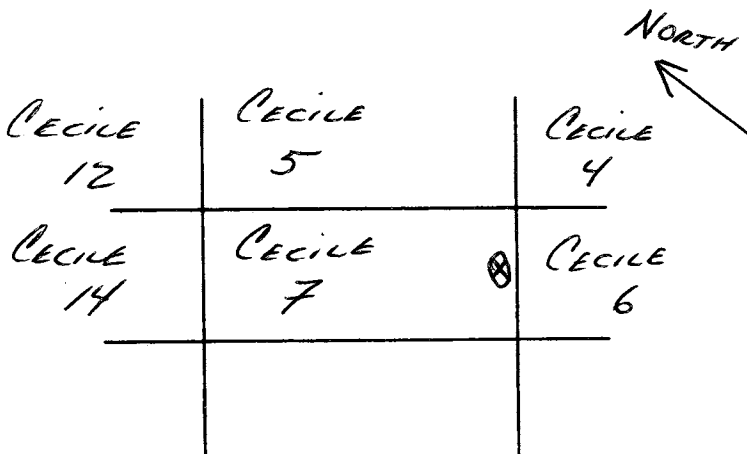


ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator
J. Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 7 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH WESTERLY and is situated in the Oro Blanco Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTH WESTERLY direction to the NORTHWEST center end monument of stake and 50 feet in a SOUTH EASTERLY direction from the location monument or stake to the SOUTH EAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NE 1/4 - SW 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

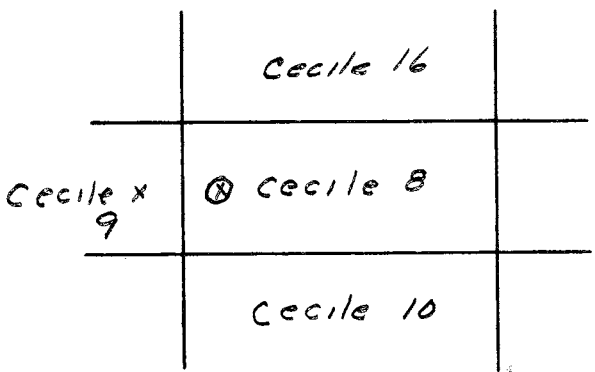


ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator
John Kenneth Jones WITNESS

ARIZONA
 NOTICE OF LOCATION
 (LODE)

NOTICE IS HEREBY GIVEN that the Cecile 8 lode mining claim was located by Essex International, Inc. on 3-28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is North-South and is situated in the Oro Blanco Mining District, Santa Cruz County, Arizona. This claim runs from the location monument or stake on which the notice is posted 35 feet in a Northwesterly direction to the North center end monument or stake and 1465 feet in a Southeasterly direction from the location monument or stake to the South center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called Cecile Group ~~thru~~ and is located approximately in N2 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, ~~or~~ ~~in a~~ ~~direction from~~ (feet or miles)

_____, _____ County, Arizona.
 (~~some prominent or permanent reference or monument~~)



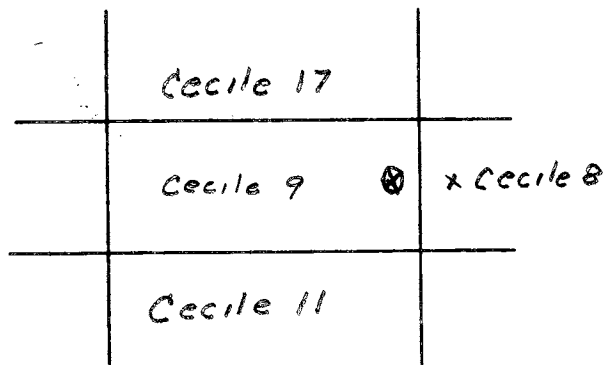
Essex International Inc.
 by Robert L. Reid
 Locator

Witness: William D. Brown

ARIZONA
NOTICE OF LOCATION
(LODE)

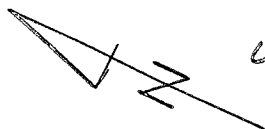
NOTICE IS HEREBY GIVEN that the Cecile 9 lode mining claim was located by Essex International Inc. on 3-28, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is North-South and is situated in the Oro Blanco Mining District, Santa Cruz County, Arizona. This claim runs from the location monument or stake on which the notice is posted 35 feet in a Southeasterly direction to the South center end monument or stake and 1465 feet in a Northwesterly direction from the location monument or stake to the North center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called Cecile Group ~~and~~ and is located approximately in N2 ~~part~~ of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, ~~of~~ ~~in a~~ ~~direction from~~
 (feet or miles)

County, Arizona.
(some prominent or permanent reference or monument)



Essex International Inc.
by Bert L. Reid
Locator

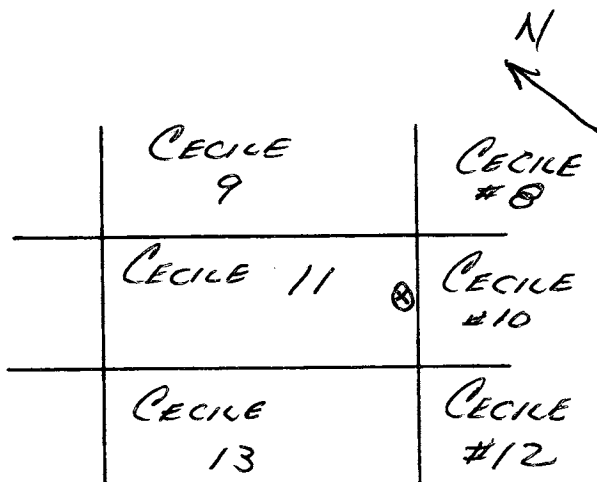
Witness: William D. Brown



ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 11 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 19 74. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH^WEASTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTH WEST center end monument or stake and 50 feet in a SOUTHEAST direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NE 1/4 - NW 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, ~~or~~ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)



ESSEX INTERNATIONAL INC

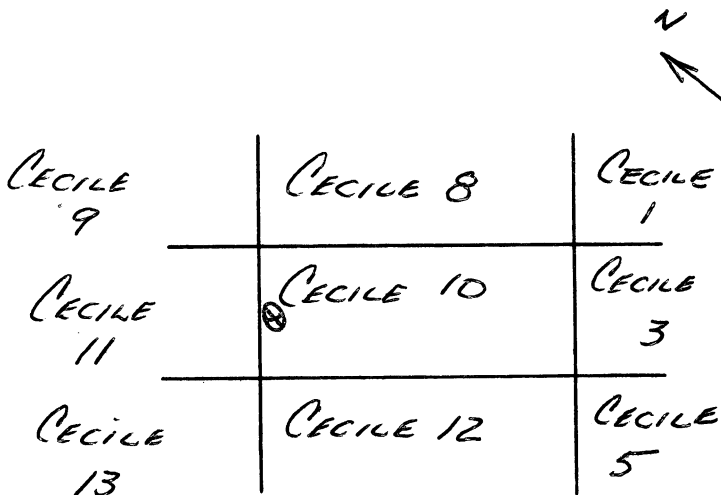
John R. Wilson AGENT
Locator

J. Kenneth Jones WITNESSED

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 10 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH WEST and is situated in the OJO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWEST direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in SE 1/4 NW 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

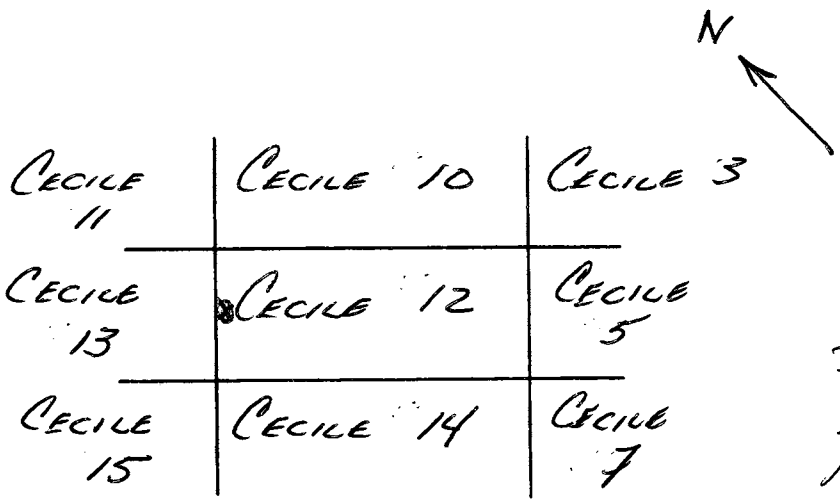


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Kennedy Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 12 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH WESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTH EAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in SE 1/4 NW 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

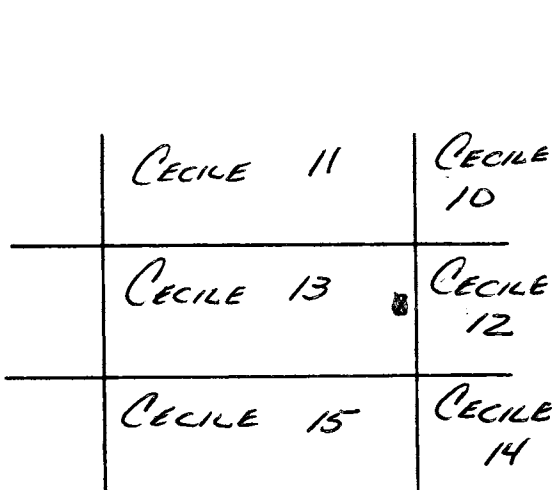


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Kenneth Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 13 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument of stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NW 1/4 - NW 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

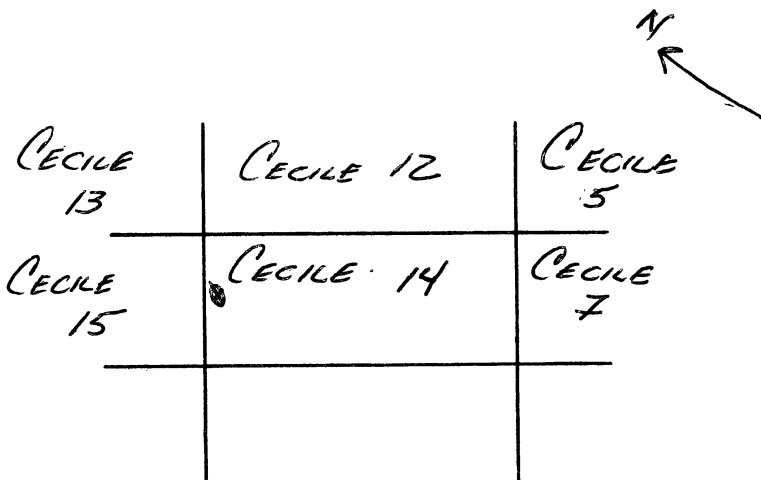


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Kenneth Jones
WITNESS

ARIZONA
 NOTICE OF LOCATION
 (LODE)

NOTICE IS HEREBY GIVEN that the CECILE 14 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE 27 and is located approximately in W 1/2 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
 (feet or miles)

_____, _____ County, Arizona.
 (some prominent or permanent reference or monument)



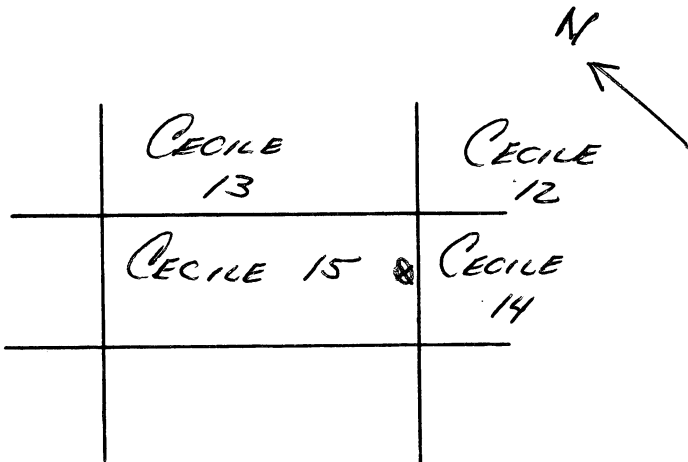
ESSEX INTERNATIONAL INC
John R. Wilson AGENT
 Locator

John Kenneth Jones
 WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 15 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH WEST and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NW 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

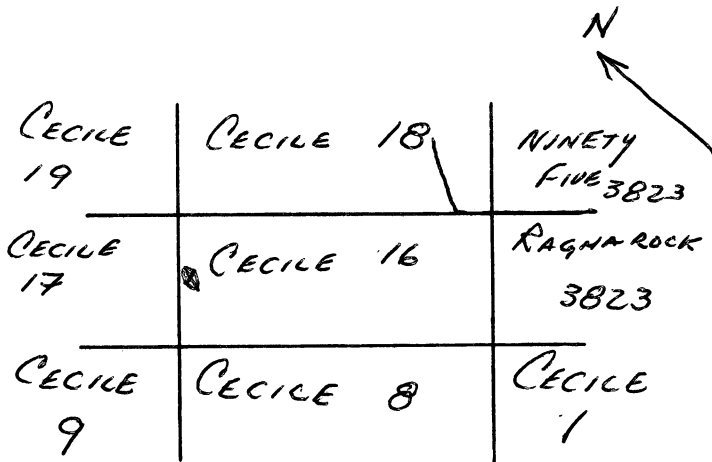


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
J. Kenneth Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 16 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH WESTERLY and is situated in the OJO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 150 ~~150~~ 1350 feet in a SOUTHEASTERLY direction to the SOUTH EASTERN center end monument or stake and 150 feet in a NORTH WESTERLY direction from the location monument or stake to the NORTH WEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in SW 1/4 - NE 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

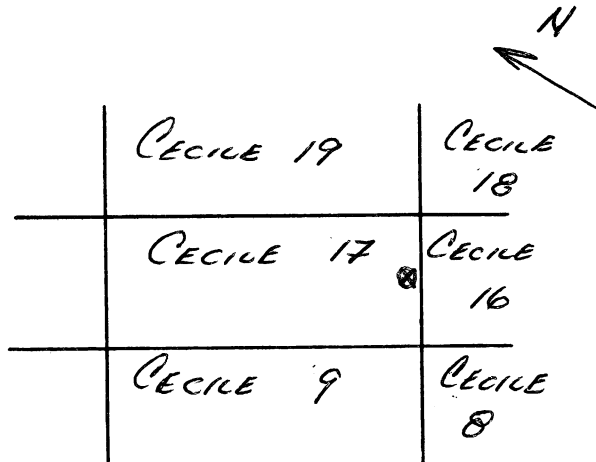


ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator
John Turner Jones witness

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 17 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1280 feet in a NORTHWESTERLY direction to the NORTH WEST center end monument or stake and 220 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE #27 and is located approximately in NW 1/4 - NE 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

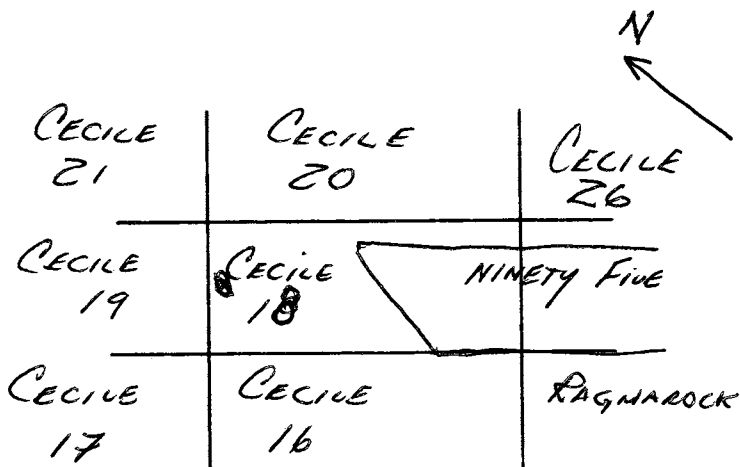


ESSEX INTERNATIONAL INC
John R. Wilson
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 18 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in NE 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

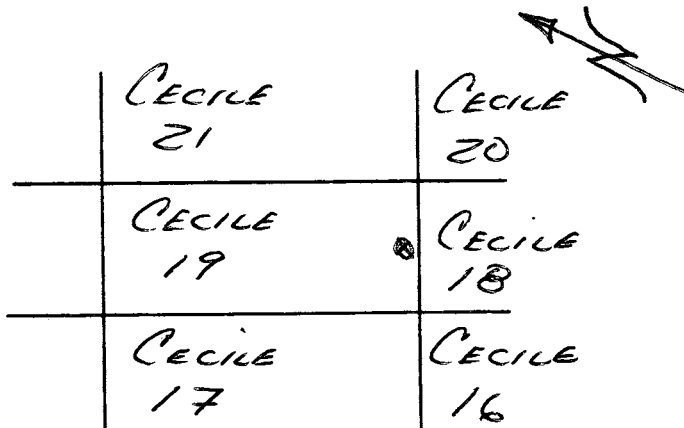


ESSEX INT'L INC
John R. Wilson agent
Locator
AB Kenneth Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 19 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in NW 1/4 - NE 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

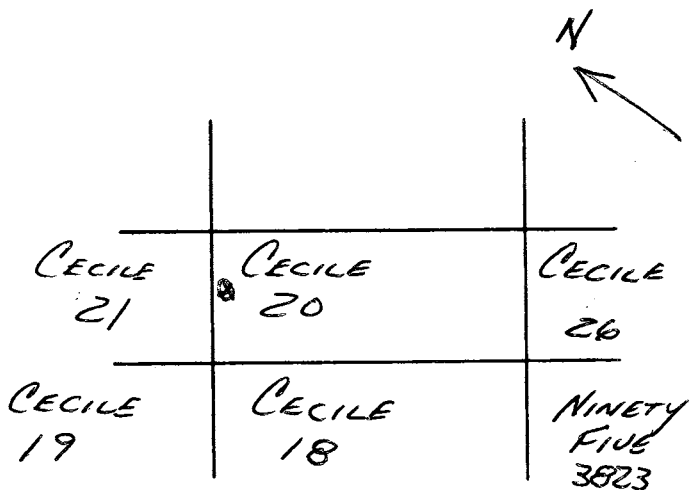


ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator
John Kennedy WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 20 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTH WEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in NE 1/4 NE 1/4 part of Section 36 Township 22 S, Range 10 E, Gila and Salt River Basin and Meridian, or in a direction from (feet or miles)

County, Arizona.
(some prominent or permanent reference or monument)



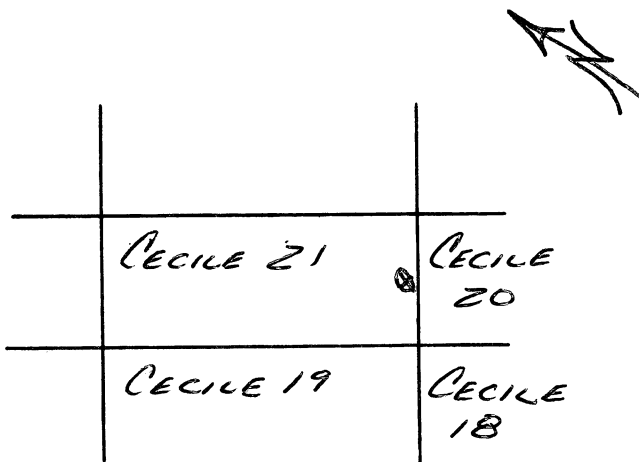
ESSEX INTERNATIONAL INC
John R. Wilson agent
Locator

John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 21 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the Cerro Blanco Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTHWEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE 1 thru CECILE 27 and is located approximately in NE 1/4 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

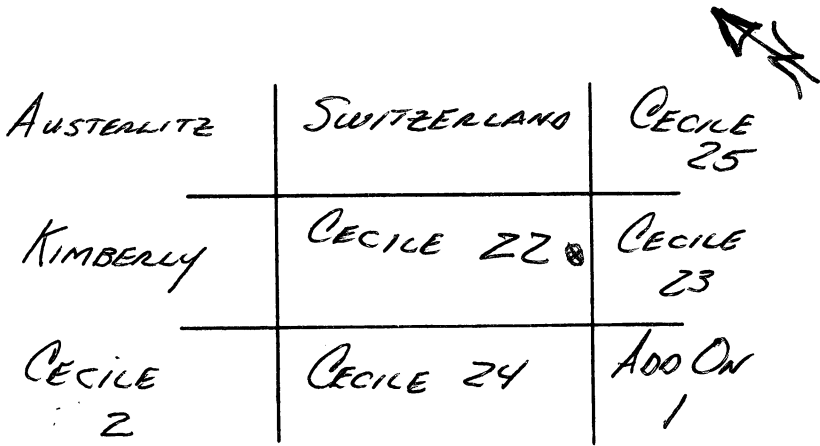


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Keener WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 22 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 19 74. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the Oro Blanco Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTHWESTERLY direction to the NORTH WEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEASTERN center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NE 1/4 NE 1/4 part of Section 1 Township 23S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

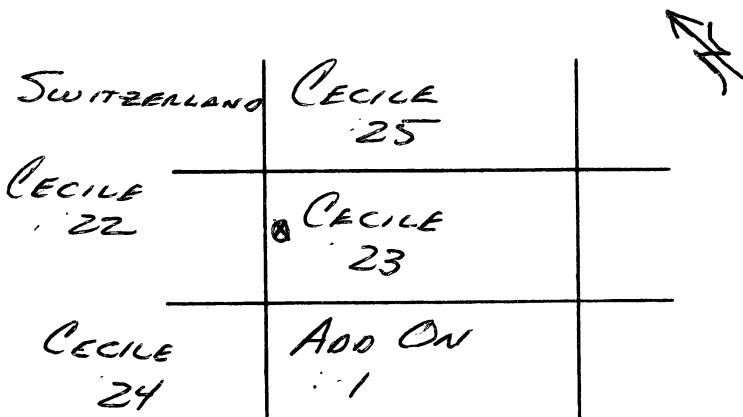


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Kenneth Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 23 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEASTERN center end monument or stake and 50 feet in a NORTHEASTERLY direction from the location monument or stake to the NORTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NW 1/4 part of Section 6 Township 23S, Range 11E, Gila and Salt River Basin and Meridian, ~~or~~ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)

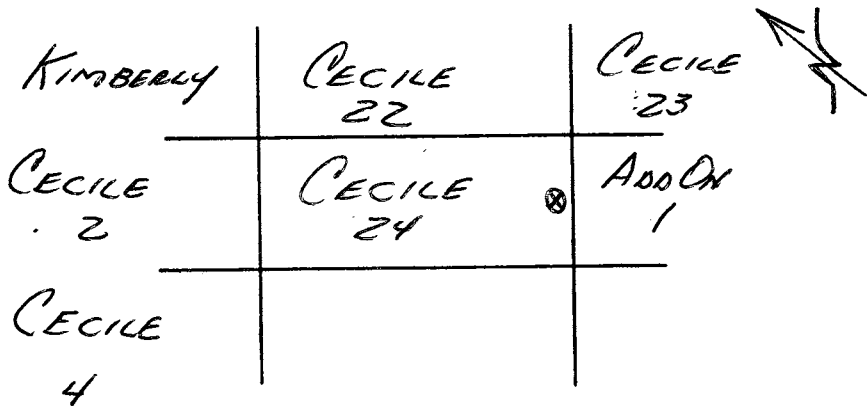


ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator
John Kenneth Jones WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 24 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a NORTH WESTERLY direction to the NORTH WEST center end monument or stake and 50 feet in a SOUTHEASTERLY direction from the location monument or stake to the SOUTHEAST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NE 1/4 part of Section 1 Township 23 S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)

_____, _____ County, Arizona.
(some prominent or permanent reference or monument)



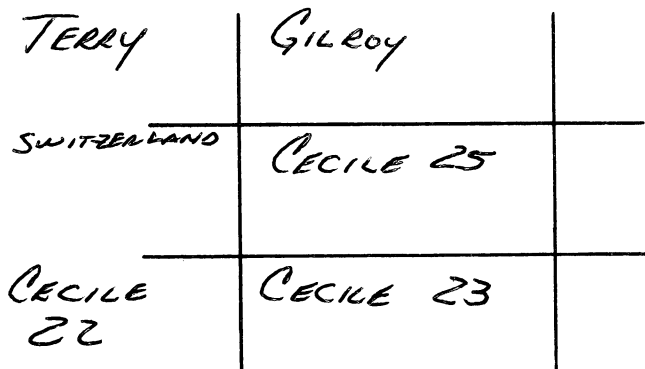
ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator

John Kenneth Jones
WITNESS

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 25 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHWESTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE #27 and is located approximately in NW 1/4 NW 1/4 part of Section 6 Township 23S, Range R1E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____ (feet or miles)

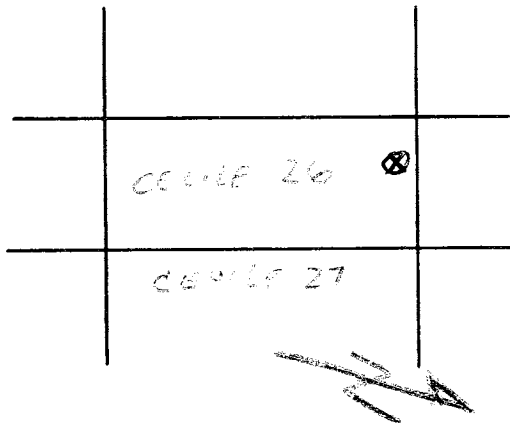
_____, _____ County, Arizona.
(some prominent or permanent reference or monument)



ESSEX INTERNATIONAL INC
John R. Wilson AGENT
Locator

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 26 lode mining claim was located by ESSEX INTERNATIONAL on 3-29, 1979. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH SOUTH and is situated in the OLD PLUMASO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 25 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1475 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE GROUP thru _____ and is located approximately in N 2 E 2 E 2 part of Section 36 Township 22S, Range 10E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
(feet or miles)
_____, _____ County, Arizona.
(some prominent or permanent reference or monument)



ESSEX INTERNATIONAL, INC.

By William P. Brown
Locator

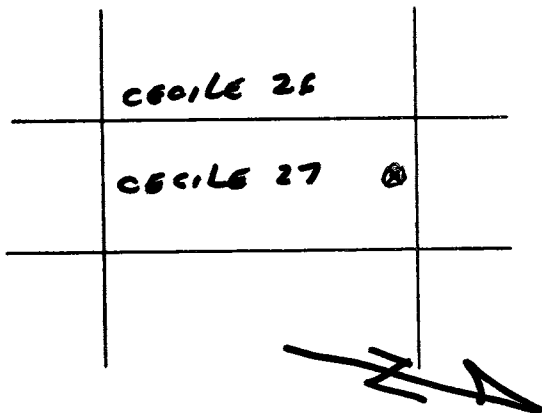
Witness: Joe Morales

ARIZONA
NOTICE OF LOCATION
(LODE)

NOTICE IS HEREBY GIVEN that the CECILE 27 lode mining claim was located by ESSEX INTERNATIONAL on 3.29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 25 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1475 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE GROUP thru and is located approximately in N²W² part of Section 31 Township 22 S, Range 11 E, Gila and Salt River Basin and Meridian, or in a _____ direction from _____
(feet or miles)

County, Arizona.

~~(some prominent or permanent reference or monument)~~



ESSEX INTERNATIONAL, INC.

By: William D. Brown

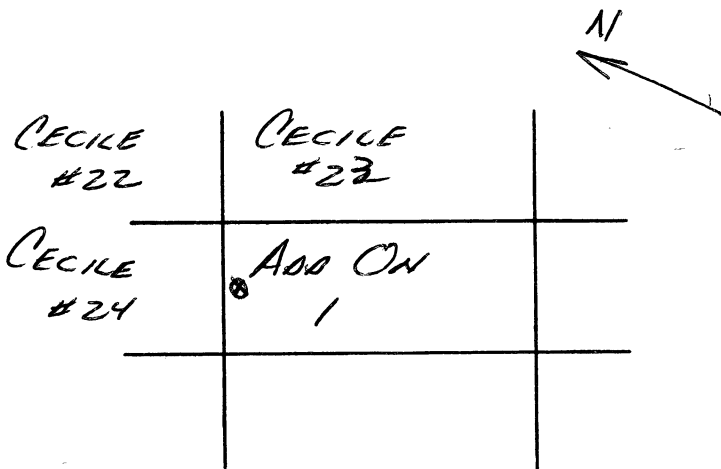
Locator

WITNESS: Joe Morales

ARIZONA
 NOTICE OF LOCATION
 (LODE)

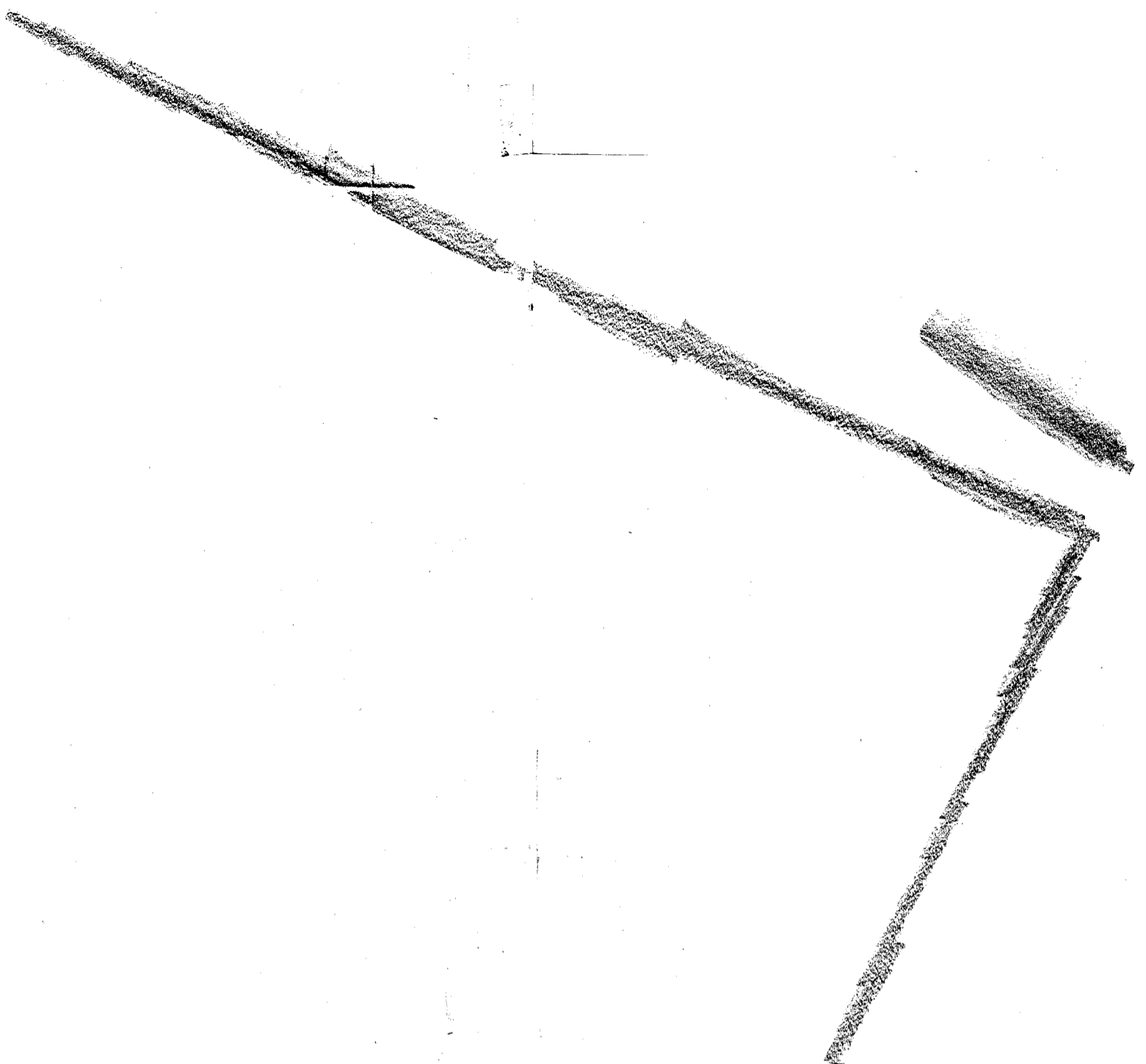
NOTICE IS HEREBY GIVEN that the ADD ON 1 lode mining claim was located by ESSEX INTERNATIONAL INC on MAR 29, 1974. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTHEASTERLY and is situated in the ORO BLANCO Mining District, SANTA CRUZ County, Arizona. This claim runs from the location monument or stake on which the notice is posted 1450 feet in a SOUTHEASTERLY direction to the SOUTHEAST center end monument or stake and 50 feet in a NORTHWESTERLY direction from the location monument or stake to the NORTHWEST center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim in the form of a parallelogram. This claim, one and part of a contiguous group called CECILE #1 thru CECILE 27 and is located approximately in NE 1/4 part of Section 1 Township 23 S, Range 10 E, Gila and Salt River Basin and Meridian, or _____ in a _____ direction from _____
 (feet or miles)

_____, _____ County, Arizona.
 (some prominent or permanent reference or monument)



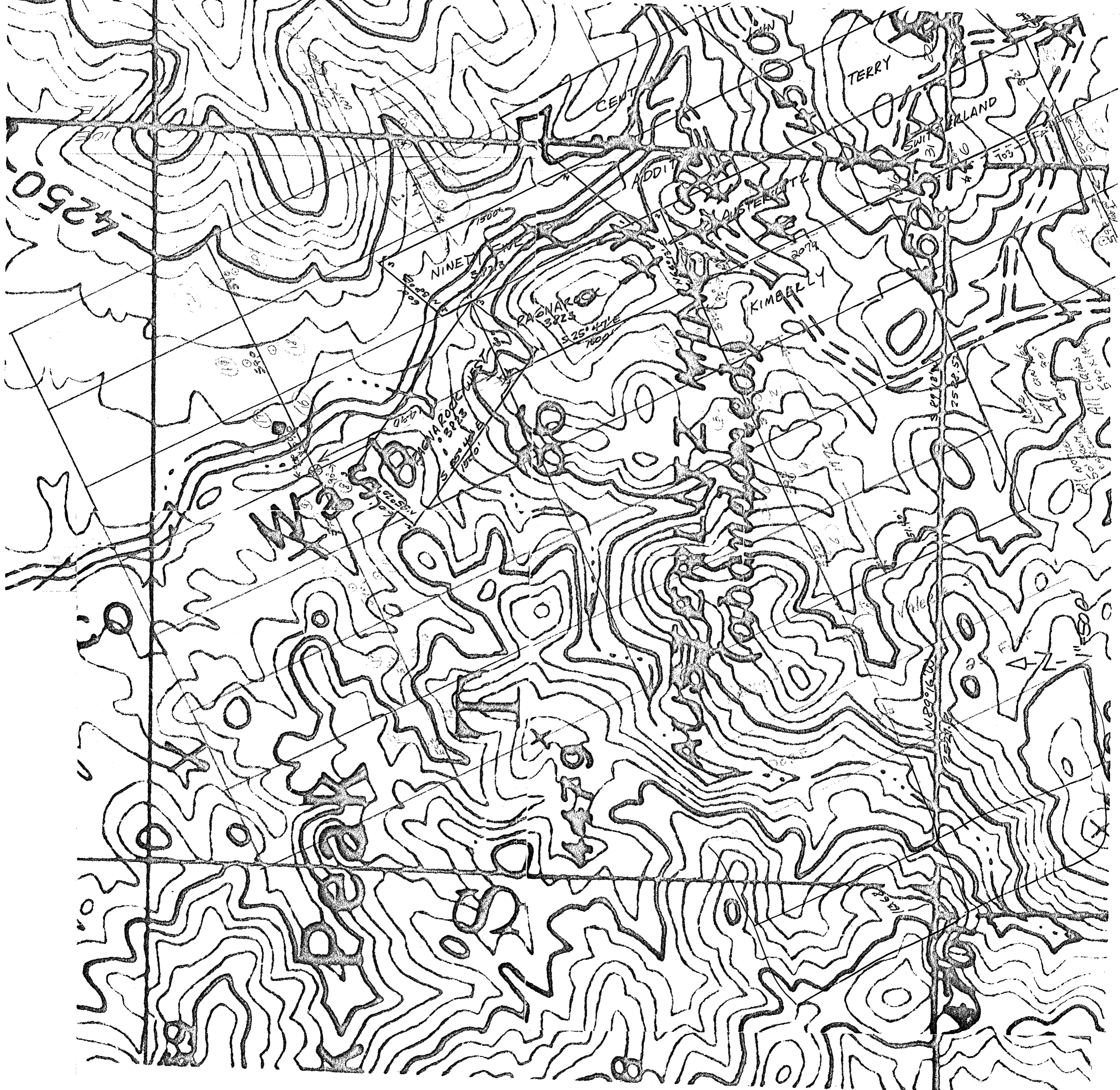
ESSEX INTERNATIONAL INC
John R. Wilson AGENT
 Locator

John Kenneth Jones
 WITNESS



9 photos 150.00 fly
map/area 1"=100' } 350.00
20 photos 700'=1" } 70.00

570.00



Claim Located, Ragnarok Mine, Jan. 1, 1888; Ragnarok West Mine, Jan. 1, 1892; Ninety Five (95) Mine, Jan. 1, 1895
 Mineral Survey No. 3283

Lot No. **Arizona** Land District

PLAT
 OF THE CLAIM OF

George T. Ballachey
 KNOWN AS THE

**RAGNAROK MINE,
 RAGNAROK WEST MINE AND
 NINETY-FIVE (95) MINE LODES**
 IN **Oro Blanco** MINING DISTRICT,
Santa Cruz COUNTY, Arizona

Containing an Area of _____ Acres.
 Scale of **300** Feet to the inch.
 Variation **13°45' E**
Surveyed April 29-May 7 1916 **BY**
Paul E. Fernald
 U.S. Deputy Mineral Surveyor

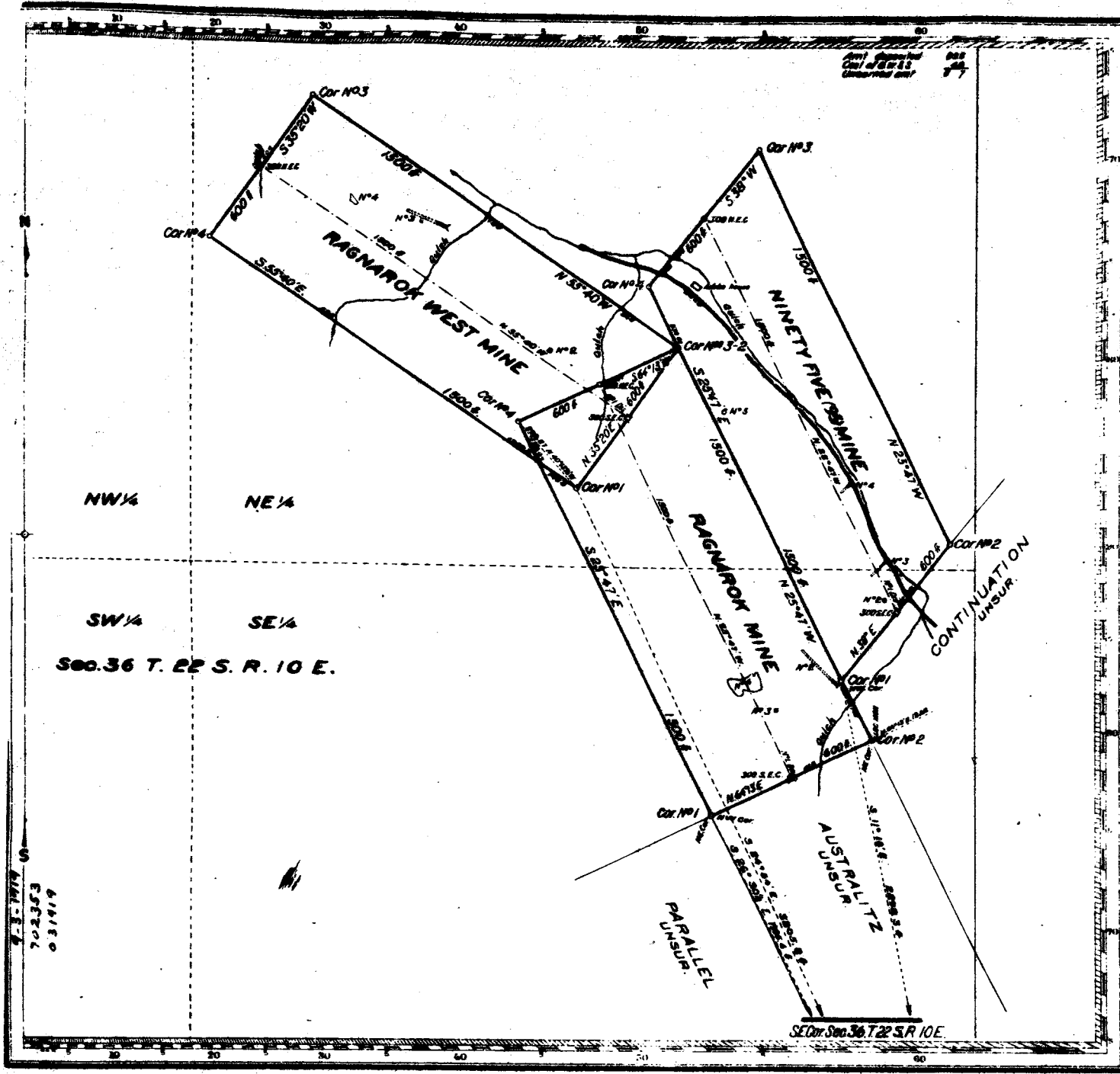
The Original Field Notes of the Survey of the Mining Claim of
George T. Ballachey

Known as the
**Ragnarok Mine, Ragnarok West Mine
 and Ninety Five (95) Mine Lodes**

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, sufficiently identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.
 I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant or his grantors and that said improvements consist of 7 cuts, 4 tunnels, 3 shafts and 1 cross-cut.
 Total value \$7320

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.
 And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office, *Frank A. Frost*
Phoenix, Arizona U.S. Surveyor General for
October 5, 1916 **Arizona**



616150
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MS	S.T.	4	4	S.P.	H.P.
MS 3293	MS 3292	270°	81° 30'	28	
	228	180°	92° 52'	128	
			77° 01'	790	775
			85° 17'	373	380
Distance METAR					
FROM	156 TO 13+11		7° 41' 56"	1162.657	
			83° 44' 04"	1152.652	1152.17
13+11	13+08				182
4 Rod MS 3293	14+90	90°	85° 33'	295	
NEC 8	NEC 8	270°		35	35
		90°			
	NEC 8	180°		25	
	3+20	180°		270	
	"	"		565	
			85° 42"	700	695
	14+90	270°		82	
	0+82			213	
				508	
				803	
				1098	

①

11/10/64 Santa Cruz Co., Ca.
 SEC. Cecile 9 - sec. Cecile 7
 SEC. Cecile 8 - NW 1/4

3-28-72
 3-29-74
 3-29-74

②

	0+27			
	1+29			
	11+52			
	13+08			
	14+90			
1/4 Cecile 8 - 54 Cecile 9				2+95
Loc. Mon. 29				
" "				
" "				
NW 1/4 C. 8				3+20
NE 1/4 C. 10				5+90
				8+85
				10+15
NE 1/4 C. 18				0+82
NE 1/4 C. 18				2+95
NE 1/4 C. 18				5+90
NE 1/4 C. 18				8+95
NE 1/4 C. 18				11+80

Austroalite
 Project
 Santa Cruz
 County, AZ

3

BS STA # T SD ND

0+82 1393

3+20 10+15 180 165
175

460

6° 735 730

25

17+45 295

590

4 RA 9
MS 3283 MS 3283

875

1465

3-29-74

4

NE C 20 14+75

NW C, C 20 (Position Approx) 11+80

NE 14+75

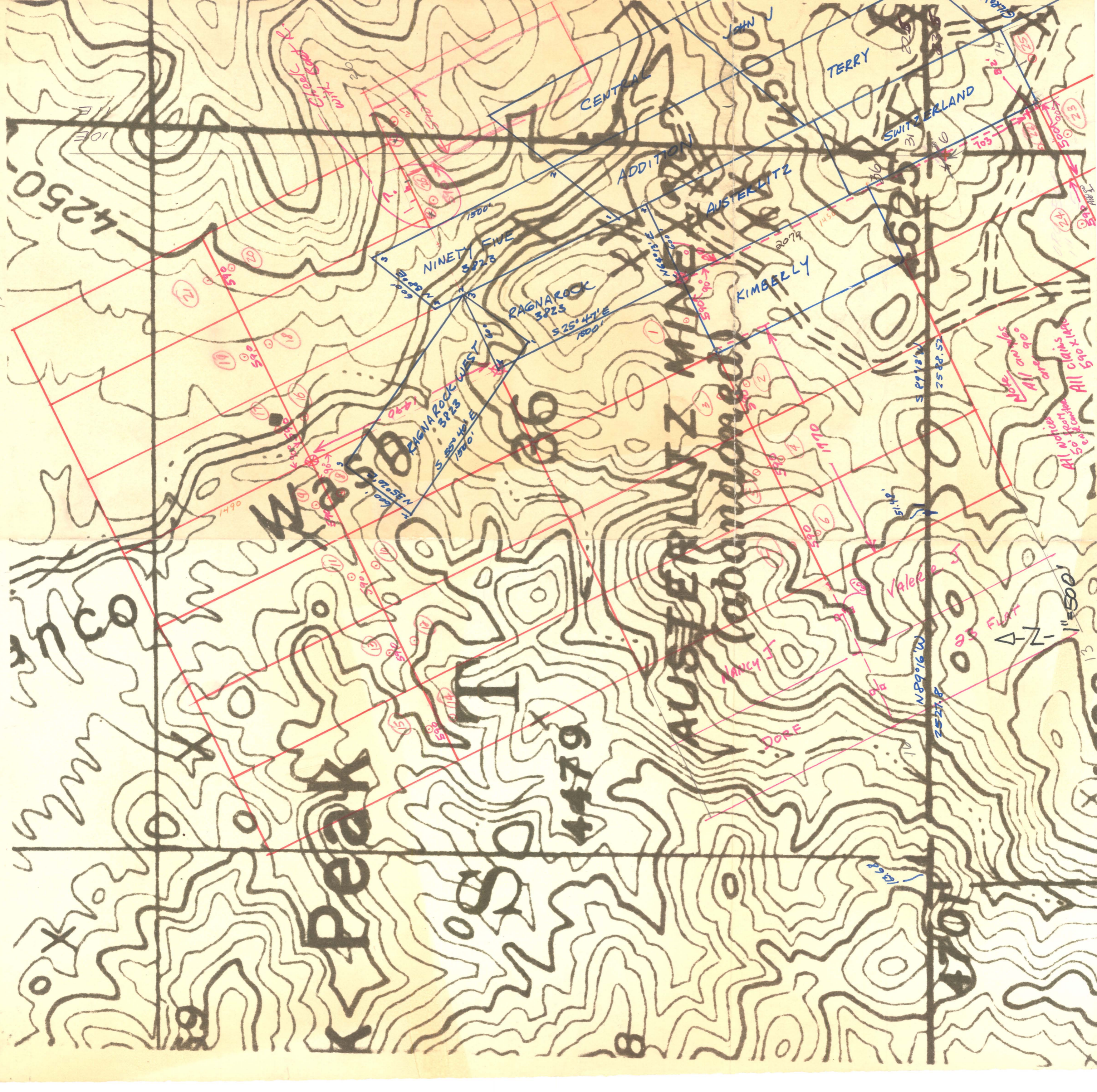
COV. 17+45

20+65

COV. 23+60

NE C 26 8+75

NE C 27 14+65



CENTRAL

TERRY

SWITZERLAND

JOHN

ADDITION

AUSTERLITZ

KIMBELLY

NINETY FIVE
3823

RAGNAROCK
3823
S 25° 47' E
1000'

RAGNAROCK WEST
3823
S 85° 46' E
1500'

AUSTERLITZ MOUNTAIN

NANCY J

DORF

N 89° 16' W
2521.8

FLAT
1" = 500'

All notices
are
All claims
are
500' + 100'

4250

1680

4479

5142

2521.8

S 89° 18' W
2588.57

1770

5306

885

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Austerlitz

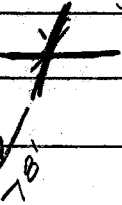
section 36

2079
703
82
1432
212864

2079

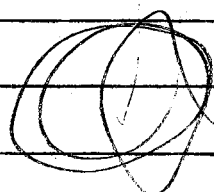
section corner

12° 22' 40"



triangulation pt.

703



212864

VERITY & SMITH
ATTORNEYS AT LAW
SUITE 902 TRANSAMERICA BUILDING
177 NORTH CHURCH AVENUE
TUCSON, ARIZONA 85701

*Let
9/6/74*

AREA CODE 602
TELEPHONE 622-7445

VICTOR H. VERITY
LEO N. SMITH
JOHN C. LACY
DESMOND P. KEARNS
ROGER W. TAYLOR
JOHN F. MUNGER

September 5, 1974

EXM
SEP 6 1974
RECEIVED

Mr. Howard Lanier
Vice President and General Manager
Metallurgical and Mining Division
Essex International, Inc.
1601 Wall Street
Fort Wayne, Indiana 46804

Re: Termination - Austerlitz

Dear Howard:

At the suggestion of Grover Heinrichs, I am forwarding herewith an original and one copy of a document entitled Release and Relinquishment of Mineral Lease and Option pertaining to the Austerlitz property, and a suggested form of notice of termination for transmittal to the owners thereof.

I reviewed with Grover a form of assessment affidavit which he will complete and cause to be recorded. It is my understanding from Grover that Mr. Noon does not wish to receive a quitclaim deed to the additional unpatented claims located by Essex within the area of interest. Grover also advises me that the Tucson office is preparing some data for delivery to Mr. Noon upon termination. The only additional obligation that might exist would be a small tax obligation with respect to the patented claims in the event the owners furnish a tax bill to Essex.

I am forwarding this directly to you in light of the possibility that the Release and the notice might be executed in time for you to bring them to Tucson next week.

If you have any questions, please contact me.

Very truly yours,

Leo N. Smith

LNS:dmd
Enclosures

cc: Robert E. Holt ✓
Donald Letesia

C
O
P
Y

[ESSEX LETTERHEAD]

Mr. and Mrs. Horton E. Noon
c/o Horton E. Noon
Patagonia Road
Nogales, Arizona 85640

Re: Termination of Mineral
Lease and Option

Dear Mr. and Mrs. Noon:

Pursuant to the provisions of the Mineral Lease and Option dated March 26, 1974 between yourselves and Lyall J. Lichty and Cecile E. Lichty, which Mineral Lease and Option was subsequently assigned to Essex International, Inc., notice is hereby given that Essex (as "Lessee" thereof) chooses to terminate the said Mineral Lease and Option effective as of the date of mailing hereof.

Enclosed herewith is an executed Release and Relinquishment of Mineral Lease and Option in a recordable form which you may wish to record so that the record will properly reflect the termination of the Mineral Lease and Option. Essex has performed the assessment work on your unpatented mining claims for the assessment year ending September 1, 1974, and will furnish you with a copy of the recorded Affidavit when it has been returned from the Santa Cruz County Recorder's Office.

Under the provisions of Section 2 of the Mineral Lease and Option, Essex has an obligation to quitclaim to you any unpatented mining claims located by Lessee within the area described therein. It is our understanding that you do not wish to receive such a quitclaim deed, but if our understanding is incorrect, please advise us and we will prepare and forward to you such a quitclaim.

On behalf of Essex International, Inc., I wish to express our gratitude for your permitting Essex the opportunity to examine the property, and Essex wishes you success in future undertakings thereon.

DATED this ___ day of _____, 1974.

Sincerely,

ESSEX INTERNATIONAL, INC.

By _____

REGISTERED MAIL
Return Receipt Requested

RELEASE AND RELINQUISHMENT OF
MINERAL LEASE AND OPTION

ESSEX INTERNATIONAL, INC., a Michigan corporation authorized to do business in the State of Arizona (hereinafter "ESSEX") hereby releases and relinquishes unto HORTON E. NOON and MURIEL B. NOON all of the rights, titles and interests acquired by ESSEX in and to the following-described patented and unpatented lode mining claims situated in the Oro Blanco Mining District, Santa Cruz County, Arizona:

Patented Claims

The following patented lode mining claims of United States Mineral Survey No. 3285, the United States Patent to which claims was recorded in the office of the Santa Cruz County Recorder on August 13, 1919 as follows:

<u>Name of Claim</u>	<u>Deeds of Mines Book</u>	<u>Page</u>
Ragnarok	6	585
Ragnarok West	6	585
Ninety Five	6	585

all as more fully described in the said United States Patent, which descriptions are by this reference incorporated herein.

Unpatented Claims

The following named unpatented lode mining claims, the location notices of which are of record in the office of the Santa Cruz County Recorder as follows:

<u>Name of Claim</u>	<u>Mining Locations: Book</u>	<u>Page</u>
Austerlitz	30	306
Addition	30	308
Central	30	309
Kimberly	30	313
Switzerland	30	307
Terry	30	310
John J.	30	311
Gilroy	30	312

as derived under that certain Mineral Lease and Option by and between Lyall J. Lichty and Cecile E. Lichty (as LESSEE)

and Horton E. Noon and Muriel B. Noon, a Memorandum of which Mineral Lease and Option was recorded in the office of the Recorder of Santa Cruz County, Arizona, in Docket 173 at page 283, and which Mineral Lease and Option was subsequently assigned to ESSEX pursuant to that certain Assignment of Mineral Lease and Option dated May 7, 1974 and recorded in the office of the Recorder of Santa Cruz County, Arizona, in Docket 174 at page 219.

This Release and Relinquishment is hereby granted in recognition of termination of the said Mineral Lease and Option.

IN WITNESS WHEREOF, this RELEASE AND RELINQUISHMENT OF MINERAL LEASE AND OPTION has been executed effective from and after the ___ day of _____, 1974.

ESSEX INTERNATIONAL, INC.

By _____

Attest: _____

STATE OF _____)
) ss.
 COUNTY OF _____)

The foregoing instrument was acknowledged before me this ___ day of _____, 1974, by _____ and _____, the _____ and _____, respectively, of ESSEX INTERNATIONAL INC., a Michigan corporation, on behalf of the corporation.

My commission expires:

_____ Notary Public

September 17, 1974

Mr. and Mrs. Horton E. Noon
Patagonia Road
Nogales, Arizona 85640

Re: Termination of
Mineral Lease Option
Austerlitz Project

Dear Mr. and Mrs. Noon:

This is to inform you of the termination of that certain Mineral Lease Option dated March 26, 1974 between yourselves and Lyall J. Lichty and Cecile E. Lichty, which document was subsequently assigned to Essex International, Inc.

Pursuant to the provisions of subject Mineral Lease and Option and our conversations at a meeting in the Essex office on Friday, August 23, 1974, attended by yourself, your son, myself, and John Wilson, Essex is herewith enclosing the following data:

- 1) Geological report on Austerlitz Mine, by Wilson and Jones.
- 2) Recorded Affidavit of Labor including geological report for the Affidavit of Labor.

Essex located additional unpatented mining claims in the area known as the Cecile Group which claims are contiguous to the Austerlitz claims and which claims were part of that certain Mineral Lease and Option. As indicated by you at said meeting, you did not wish to maintain the new claims located by Essex, but you did plan to maintain the original group of eight unpatented claims.

Under the provisions of Section 2 of the Mineral Lease and Option, Essex (as Lessee) has an obligation to quitclaim to you any unpatented mining claims located by Lessee within an area as described in said option. It is our understanding that you do not wish to receive such quitclaim. If this is incorrect please advise us and we will prepare and forward to you such quitclaim. I should inform you, however, that the Cecile claims are not complete and valid claims because certain state and federal work requirements were not carried out.

Mr. and Mrs. Horton E. Noon
Nogales, Arizona

September 17, 1974

-2-

In the near future you will receive a "Termination Notice" and a "Release and Relinquishment" executed by our corporate offices in Fort Wayne, Indiana. Such notice covers much the same information as above. If you have any questions please let me know.

Very truly yours,

E. Grover Heinrichs
Assistant Exploration Manager

ESSEX INTERNATIONAL, INC.

EGH:td
enclosures

cc: L.J. Lichty

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AFFIDAVIT OF LABOR PERFORMED
AND
IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

E. Grover Heinrichs, being duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one years of age, and resides at Tucson in Pima County, Arizona, and is personally acquainted with the hereinafter described mining claims situated in the Oro Blanco Mining District and located in portions of Sections 36, T.22S., R.10E.; 31, T.22S., R.11E.; 6, T.23S., R.11E, Santa Cruz County, Arizona, the location notices of which are recorded in the office of County Recorder of said County as follows:

NAME OF CLAIM	RECORDED	
	Docket	Page
Austerlitz	30	306
Addition	30	308
Central	30	309
Kimberly	30	313
Switzerland	30	307
Terry	30	310
John J.	30	311
Gilroy	30	312

The work done on these claims was performed between September 1, 1973 and September 1, 1974 and fulfills the requirements for annual labor for the period and was for the benefit of the claims and said work consisted of geologic mapping, and geochemical sampling (see attached report and map).

The cost of the work done was in excess of \$100.00 per claim and exceeded a total cost of \$800.00, and fulfills the requirements of assessment work as prescribed by the statutes of the State of Arizona and the United States of America.

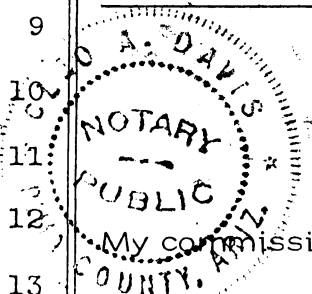
All the work was done at the expense of Essex International, Inc., a Michigan Corporation, authorized to do business in the State of Arizona for the benefit of and at the request of the owners of record.

Personnel who worked on the claims for the benefit of the owners in addition to E. Grover Heinrichs, Assistant Manager of Exploration, Essex International, Inc., are listed as follows:

1 John R. Wilson, Project Geologist; J. Kenneth Jones, Chief
2 Geologist, all employees of Essex International, Inc., and all qualified
3 by education or experience or both to conduct such work, and can be
4 contacted at 1704 West Grant Road, Tucson, Arizona 85705.

5 By: *E. Grover Heinrichs*
6 E. Grover Heinrichs

7 Subscribed and sworn to before me this 13th day of September
8 _____, 1974.



10 *O. A. Davis*
11 Notary Public

12 My commission expires:
13 Nov. 19, 1976

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1 GEOLOGICAL REPORT
2 FOR
3 AFFIDAVIT OF LABOR PERFORMED

4 This report is for the purpose of outlining the extent and nature
5 of work done on the following described unpatented mining claims, all
6 located in portions of Sec. 36, T.22S., R.10E.; 31, T.22S., R11E.;
7 6, T.23S., R.11E, Oro Blanco Mining District, Santa Cruz County,
8 Arizona.

	<u>CLAIM NAME</u>	<u>RECORDED</u>	
		<u>Docket</u>	<u>Page</u>
9	Austerlitz	30	306
10	Addition	30	308
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12	Kimberly	30	313
13	Switzerland	30	307
14	Terry	30	310
15	John J.	30	311
16	Gilroy	30	312

17 The work done on the said property was performed to fulfill the
18 requirements for annual labor for the period of Sept. 1, 1973 to Sept. 1,
19 1974 and consisted of geologic mapping and geochemical sampling.

20 The cost of the work done was in excess of \$100.00/claim and
21 exceeded a total cost of \$800.00 and completes the requirements of
22 assessment work as prescribed by the statutes of the United States and
23 the State of Arizona as they pertain to annual assessment work.

24 The geologic work was done by John R. Wilson, Project Geologist,
25 under the general supervision of J. Kenneth Jones, Chief Geologist, and
26 assisted by E. Grover Heinrichs, Assistant Manager of Exploration, all
27 employees of Essex International, Inc. and all qualified by education or
28 experience or both, to conduct such work.

29 Basic Findings

30 The rocks in the vicinity of the Austerlitz Mine consist of Jurassic,
31 Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and
32 Jurassic and Cretaceous sedimentary rocks.

33 The oldest of the intrusive rocks appears to be the Jurassic(?)
34 quartz monzonite plugs observed in the western portion of the map area.
35 These plugs are generally elongate in a north-south direction and range
36 in size from approximately 400 feet to 1000 feet in the long dimension
37 and 200 feet to 500 feet in the shorter dimension. The quartz monzonite
38 is generally medium grained and generally shows no more than weak
39 chloritically altered mafic minerals. The next youngest intrusive unit
40 appears to be the Cretaceous(?) diorite. These intrusives are generally
41 in the southeastern and north central portions of the mapped area and
42 generally range in size from less than 200 feet to over 1000 feet in
43 diameter. Alteration is generally quite weakly exhibited in this rock
44 and consists only of local chloritic alteration. The youngest of the in-

1 trusive rocks observed in the area are the Tertiary(?) quartz monzonite
2 porphyry to granodiorite porphyry dikes. These dikes generally strike
3 northwesterly and are always in close spatial relationship to the observed
4 gold-silver mineralization. These dikes are probably also genetically
5 related to mineralization.

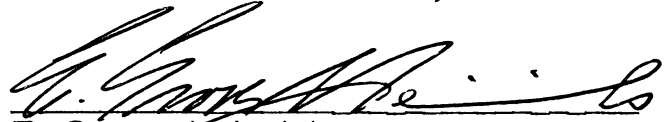
6 The oldest of the rocks in the area appear to be the Jurassic(?)
7 Cobre Ridge tuff. These rocks in general strike northwesterly and
8 gently to the northeast. The Cobre Ridge tuff is actually a welded rhyo-
9 litic to dacitic tuff and is the sole host for all the mineralization observed
10 in the area.

11 In general, the sedimentary rocks occupy only a small percentage
12 of the mapped area and are of very little importance in the overall geologic
13 picture. Rock types vary from conglomerate to sandstones mixed with
14 agglomerates.

15 Structurally, the area is marked by an extremely strong north-
16 west trending, northeast dipping fault. This fault in general separates
17 the intrusives and mineralized volcanics on the southwest from the un-
18 mineralized intrusives and sedimentary rocks on the northeast. In addi-
19 tion to this major structure, several near east-west trending, north
20 dipping faults were also observed in the area.

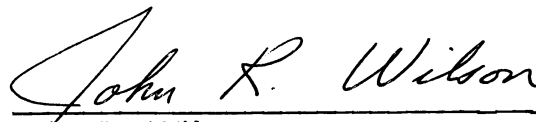
21 See geologic sketch map attached.

22 ESSEX INTERNATIONAL, INC.

23 

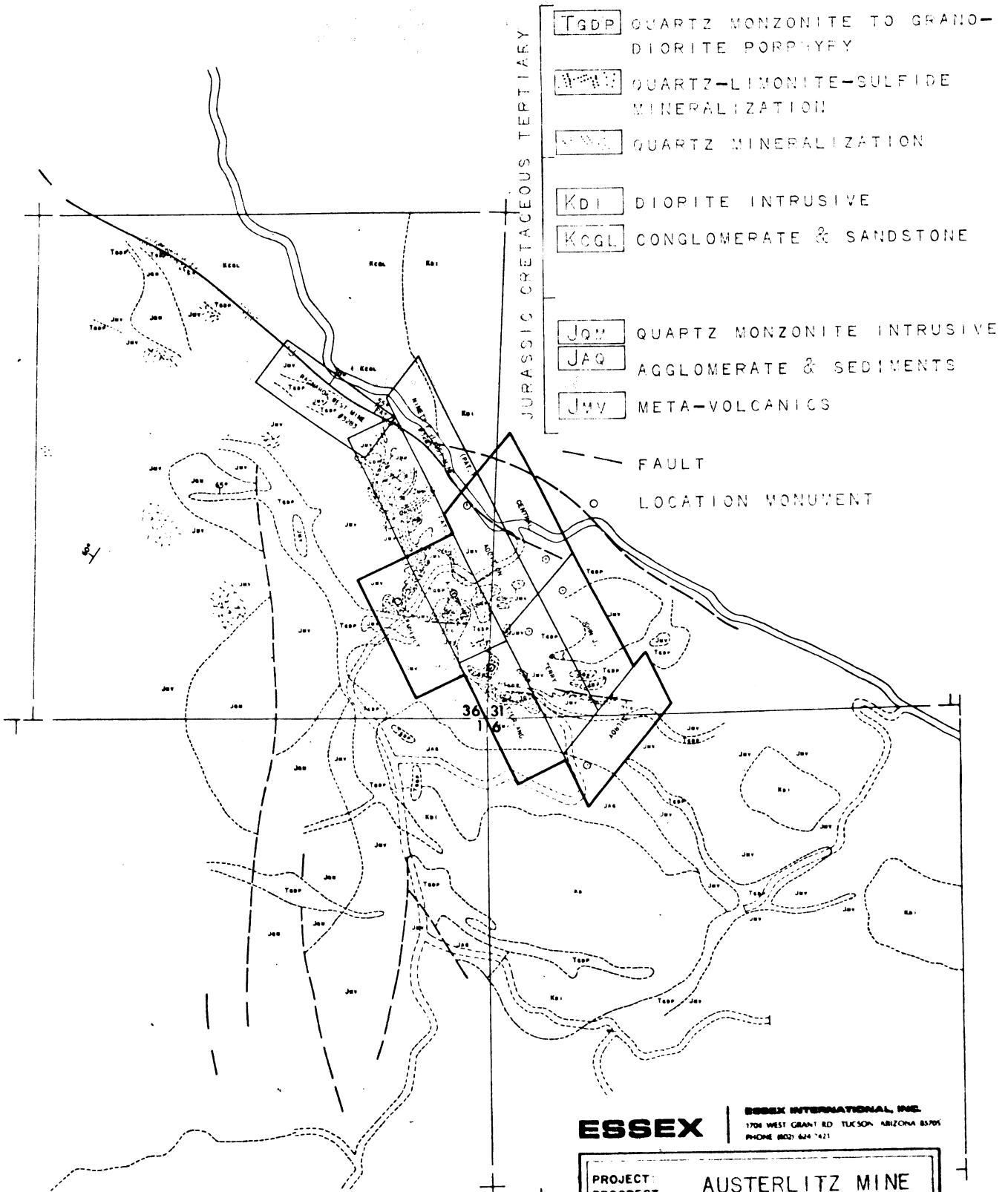
24 E. Grover Heinrichs

25 Assistant Manager Exploration

26 

27 John R. Wilson

28 Project Geologist



ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD. TUCSON, ARIZONA 85704
PHONE (602) 624-7421

PROJECT NUMBER:	AUSTERLITZ MINE
COUNTY, STATE:	SANTA CRUZ, ARIZ
T. R & SECTION:	S36, T22S, R10E S31, T22S, R11E S6, T23S, R11E
CLAIM-GEOLOGY MAP	
SCALE:	1" = 1610' APPR.
DATE:	9/5/74
DATA BY:	K. JONES
PREPARED BY:	J. WILSON



BOUNDARY OF UNPATENTED CLAIMS
& AREA OF GEOLOGIC STUDY FOR
ASSESSMENT YEAR 1973-1974

9074

FEE NO.

STATE OF ARIZONA, County of Santa Cruz - SS.
do hereby certify that the within instrument was filed and recorded at the request of Essex International, Inc.
on SEP 18 1974 A. D., 1974 at 9:07 o'clock A. M. Docket No: 179 Page 59-63
Records of Santa Cruz County, Arizona.
WITNESS my hand and official seal the day and year first above written.
G. ESPINOSA MORENO, COUNTY RECORDER
By Laura G. Jones
Deputy

GEOLOGIC REPORT ON THE

AUSTERLITZ MINE

Santa Cruz County, Arizona

By

John R. Wilson and J.K. Jones

August 1974

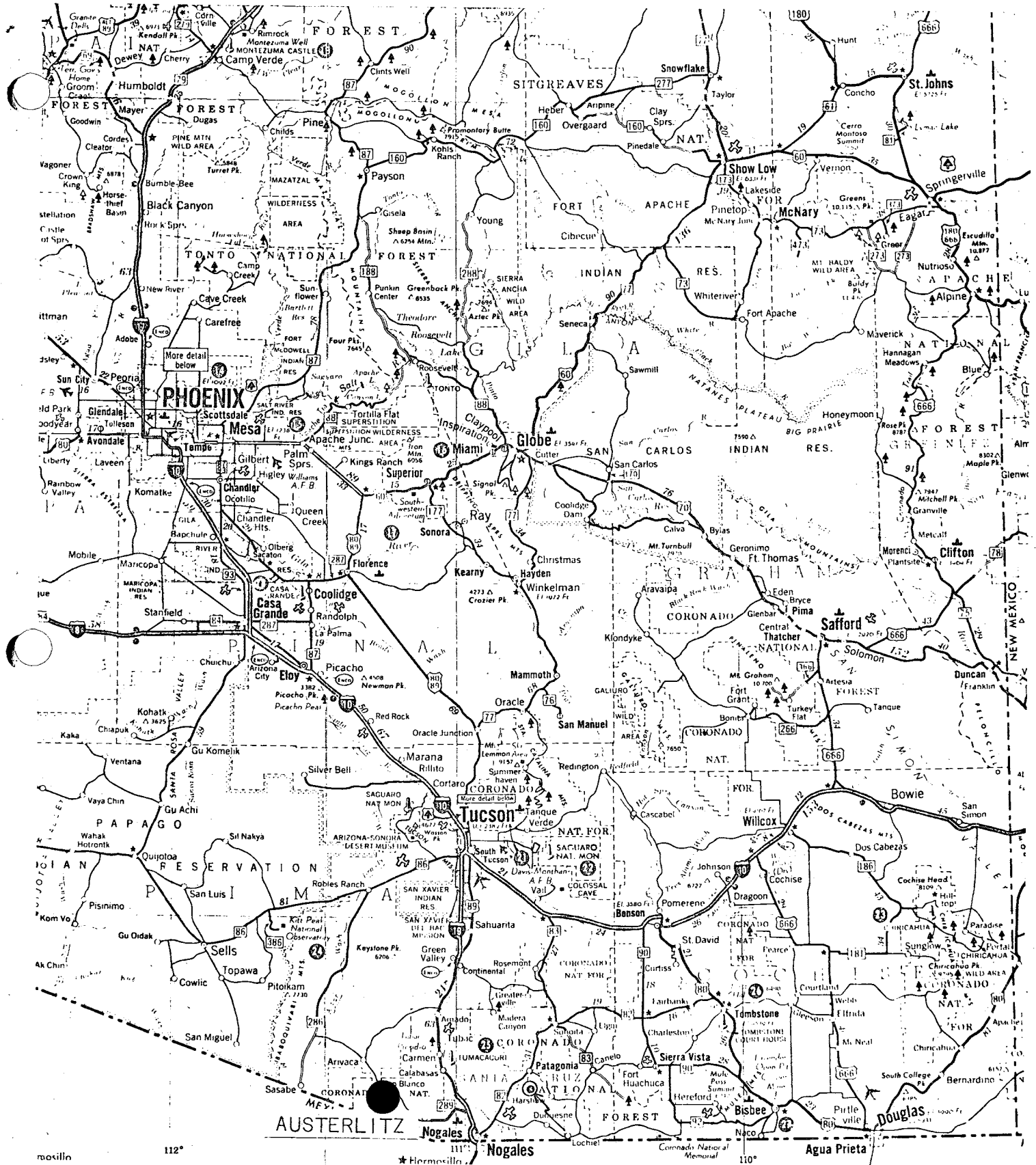
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Maps in Pocket

Property Map - Scale 1" = 500'	Plate 1
Geologic - Sample Location 1" = 40' Switzerland Claim Area	Plate 2
Geologic - Sample Location 1" = 40' Ragnarok Claim Area	Plate 3
Geology Map - Scale 1" = 500'	Plate 4

LOCATION MAP OF AUSTERLITZ PROPERTY



AUSTERLITZ PROPERTY
SANTA CRUZ CO., ARIZ.

ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD. TUCSON, ARIZONA 85705
PHONE (602) 624-7421

A REPORT ON THE AUSTERLITZ MINE

Santa Cruz County, Arizona

The Austerlitz property was introduced to the Essex staff by Mr. Lyall Lichty in March of 1974. Lichty had previously, in 1963, sampled the area by taking several 50-ton samples and had obtained fairly persistent gold and silver values. Following Lichty's introduction and a cursory property examination by P.I. Eimon and J.K. Jones, a property option was signed with the owner, Horton Noon. Noon, a local rancher, controlled the heart of the old camp with three patented and eight unpatented mining claims. Following the signing of the property option agreement, an additional 32 claims were staked in the area by Essex personnel (Pl. 1).

A total of 17 man-days were spent in the field by J.K. Jones, W. Brown, and J.R. Wilson, mapping and extensively sampling the area.

Location and Access

The Austerlitz property is located in southern Santa Cruz County, Arizona approximately five miles north of the Mexican Border (Fig. 1). Access to the property can be obtained by rough, winding roads from either Arivaca, Arizona, 10 miles to the northwest, or Nogales, Arizona, 35 miles to the southeast (Fig. 1).

Past Production

Production records indicate that approximately \$90,000 in gold was extracted from the property through 1936. It is quite likely that there was earlier unrecorded production and certainly later unrecorded production.

In 1963 Platero Corporation mined and shipped five 50-ton samples to the ASARCO smelter at Hayden, Arizona. The smelter receipts and assay results are shown on the following page.

<u>Number</u>	<u>Gold oz/ton</u>		<u>Silver oz/ton</u>		<u>Copper%</u>	
	<u>Jacobs</u>	<u>ASARCO</u>	<u>Jacobs</u>	<u>ASARCO</u>	<u>Jacobs</u>	<u>ASARCO</u>
1	0.020	0.003	1.05	1.11	0.15	0.09
2	0.015	0.005	1.00	0.91	0.10	0.03
3	0.025	0.045	1.65	1.45	0.26	0.09
4	0.035	0.025	3.15	3.71	1.07	0.90
5	0.030	0.015	1.10	0.82	0.16	0.09
Average:	0.025	0.019	1.59	1.60	0.24	0.24

Although all the values were quite low by 1963 standards, these same assay values, in view of 1974 Ag-Au prices, were what originally interested the Essex staff in the property.

Scope and Purpose

It was the purpose of this investigation to evaluate the potential for the existence of a small to medium sized, open-pit, low grade gold-silver-(copper) deposit. The initial phase of this program consisted of geological mapping on a scale of 1" = 500' and a random geochemical sampling program. As a result of this initial phase, it was concluded that only two areas were sufficiently large enough and continuously mineralized enough to warrant further work. These two areas were then more systematically sampled and more extensively mapped.

Systematic sampling of the two favorable areas consisted of traversing the apparent mineralized zones at several places and channel sampling all outcrop along this traverse. Channel sample cuts ranged from 5 feet to approximately 40 feet in length depending on outcrop availability. All samples taken weighed between 15 and 20 pounds and were assayed at Jacobs Assay Office in Tucson, on a three assay ton basis.

Geology

The rocks in the vicinity of the Austerlitz Mine consist of Jurassic, Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and Jurassic and Cretaceous sedimentary rocks.

The oldest of the intrusive rocks appears to be the Jurassic(?) quartz monzonite plugs observed in the western portion of the map area. These plugs are generally elongate in a north-south direction and range

in size from approximately 400 feet to 1000 feet in the long dimension and 200 feet to 500 feet in the shorter dimension. The quartz monzonite is generally medium grained and generally shows no more than weak chloritically altered mafic minerals. The next youngest intrusive unit appears to be the Cretaceous(?) diorite. These intrusives are generally in the southeastern and north central portions of the mapped area and generally range in size from less than 200 feet to over 1000 feet in diameter. Alteration is generally quite weakly exhibited in this rock and consists only of local chloritic alteration. The youngest of the intrusive rocks observed in the area are the Tertiary(?) quartz monzonite porphyry to granodiorite porphyry dikes. These dikes generally strike northwesterly and are always in close spatial relationship to the observed gold-silver mineralization. These dikes are probably also genetically related to mineralization.

The oldest of the rocks in the area appear to be the Jurassic(?) Cobre Ridge tuff. These rocks in general strike northwesterly and gently to the northeast. The Cobre Ridge tuff is actually a welded rhyolitic to dacitic tuff and is the sole host for all the mineralization observed in the area.

In general, the sedimentary rocks occupy only a small percentage of the mapped area and are of very little importance in the overall geologic picture. Rock types vary from conglomerate to sandstones mixed with agglomerates.

Structurally, the area is marked by an extremely strong northwest trending, northeast dipping fault. This fault in general separates the intrusives and mineralized volcanics on the southwest from the unmineralized intrusives and sedimentary rocks on the northeast. In addition to this major structure, several near east-west trending, north dipping faults were also observed in the area.

Mineralization

Mineralization in the vicinity of the Austerlitz Mine is wholly contained within the Jurassic(?) Cobre Ridge tuff and is basically of two types; quartz veins and relatively thin silicified zones. Of the two types of mineral occurrence, the silicified zones have accounted for the majority of the district's production and offer the only real potential for an economically viable operation.

The silicified zones are quite variable in thickness, ranging from upwards of 40 feet to less than 5 feet, and appear to be either root pendants engulfed in granodiorite porphyry or thin, gently dipping,

"stratabound" units contained within unmineralized and altered volcanics. Silicification within the volcanics appears to take the form of either intense silica flooding or micro-veining or both. In all cases, the silicified zones are found in close spatial relationship to the granodiorite-quartz monzonite porphyry dikes.

Locally within the silicified zones can be found areas of abundant pyrite or limonite. These areas in general were found to carry the highest gold and silver values and were locally observed to contain both chalcopyrite and galena.

As is evidenced by the included geological map, numerous areas of silica-pyrite-limonite were found throughout the area (Pl. 4). Of these numerous zones, only two were of sufficient size to be considered as possible targets. These two, the Switzerland and Ragnarok areas, constitute what was previously described as "stratabound" type mineralization.

The Switzerland area is located approximately 1000 feet south of the old Austerlitz Mine and comprises an area of approximately 600 feet x 100 feet in size (Pl. 2). This zone appears to be approximately 20 feet in thickness and is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes N50W and dips at approximately 10° to the northeast.

The Ragnarok area is located about 1000 feet north of the old Austerlitz Mine and comprises an area of approximately 1000 feet by 500 feet in size (Pl. 3). The thickness of this zone varies from approximately 40 feet at its southern end to approximately 10 feet at its northern end. This zone, like the Switzerland zone, is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes NNW and dips northeasterly at between 10° and 30° .

All other exposed mineralized zones were found to be either very small roof pendants in granodiorite porphyry or so obviously discontinuously mineralized "stratabound" units as to discount their importance.

Conclusions and Recommendations

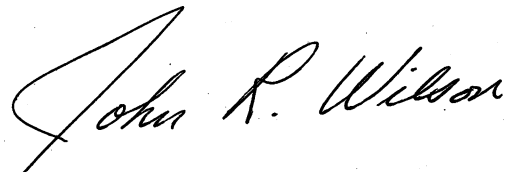
Following the initial stage of this investigation, it was concluded that only the Ragnarok and Switzerland areas offered the potential for finding a small open-pit gold-silver-(copper) deposit. All other zones were shown to be too limited in tonnage potential or too sporadically mineralized to be economically viable.

Subsequent work has shown that the combined tonnage potential of the Ragnorok-Switzerland areas is probably no more than 1.2 million tons. In addition to relatively small projected tonnages in these area, systematic sampling has indicated that mineralization is much too sporadic and low grade to be considered economic at this time (Pl. 2 & 3).

At no time during the project was any lead to blind mineralization observed and it must be concluded that none exist.

It is concluded that, although numerous, small, near ore grade zones of gold-silver-(copper) mineralization occur throughout the area, their occurrence is much too sporadic and discontinuous to warrant further work. It is recommended that no further work be done on this prospect and that the property option be terminated.

John R. Wilson
August 1974

A handwritten signature in cursive script that reads "John R. Wilson". The signature is written in dark ink and is positioned to the right of the typed name and date.

CECILE 1
RAGNAROK 3823



ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD., TUCSON, ARIZONA 85705
PHONE (602) 624-7421

PROJECT: AUSTERLITZ MINE
PROSPECT NUMBER:
COUNTY, STATE: SANTA CRUZ, ARIZ
T., R. & SECTION: S36, T22S, R10E
LATITUDE, LONGITUDE:
ASSAY-GEOLOGY MAP
SCALE: 1" = 40'
DATE: 9/5/74
DATA BY: K. JONES
PREPARED BY: J. WILSON

→ N

RAGNAROK AREA
1" = 40'

0.005 - 0.28 — Assays of Au - or Ag

LIMIT OF Qtz-Lim-Ag (in red)

TERTIARY GRANODIORITE PORPHYRY



JURASSIC META-VOLCANICS

PLATE 2



SWITZERLAND AREA
1" = 40'

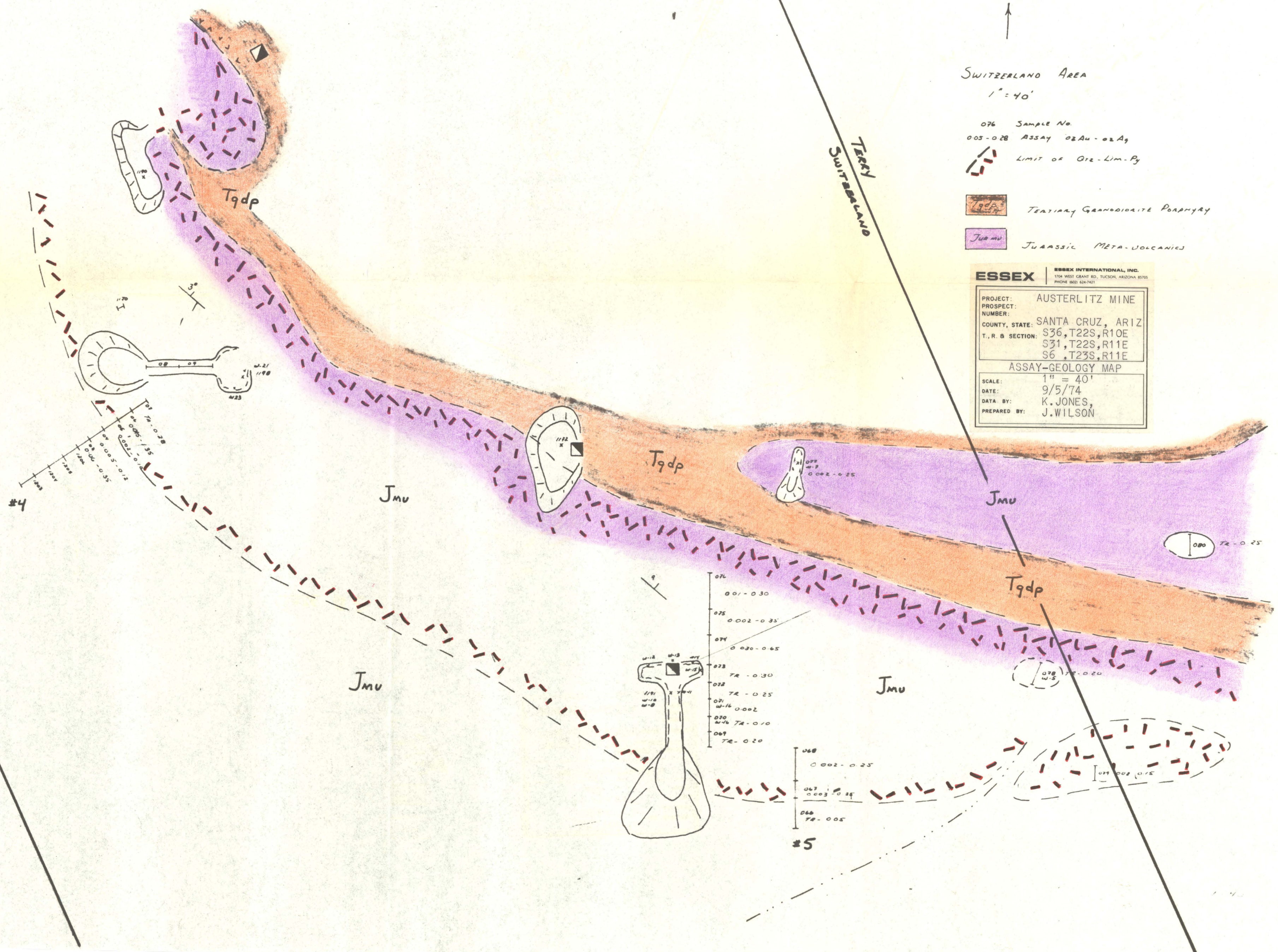
076 SAMPLE No.
005-028 ASSAY 02Au-02Ag
LIMIT OF Ore-Lim-Py

 TERTIARY GRANODIORITE PORPHYRY
 JURASSIC META-VOLCANICS

ESSEX ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD., TUCSON, ARIZONA 85705
PHONE 800-624-7421

PROJECT: AUSTERLITZ MINE
PROSPECT NUMBER:
COUNTY, STATE: SANTA CRUZ, ARIZ
T. R. & SECTION: S36, T22S, R10E
S31, T22S, R11E
S6, T23S, R11E

ASSAY-GEOLOGY MAP
SCALE: 1" = 40'
DATE: 9/5/74
DATA BY: K. JONES,
PREPARED BY: J. WILSON



GEOLOGY

AUSTERLITZ MINE
 ORO BLANCO MINING DIST.
 SANTA CRUZ CO., ARIZ.

SCALE 1 INCH = 500 FEET



EXPLANATION

TERTIARY		QTZ MONE TO GRANODIORITE PORPHYRY
		QTZ-LIMONITE-SULFIDE MINERALIZATION
		QTZ MINERALIZATION
CRETACEOUS		DIORITE INTRUSIVE
		CONGLOM & SSTONE
JURASSIC		QTZ MONE INTRUSIVE
		AGGLOM & SEDIMENTS
		META-VOLCANICS
		FAULTS

ESSEX ESSEX INTERNATIONAL, INC.
 1701 WEST GRANT RD., TUCSON, ARIZONA 85705
 PHONE 602 624-7421

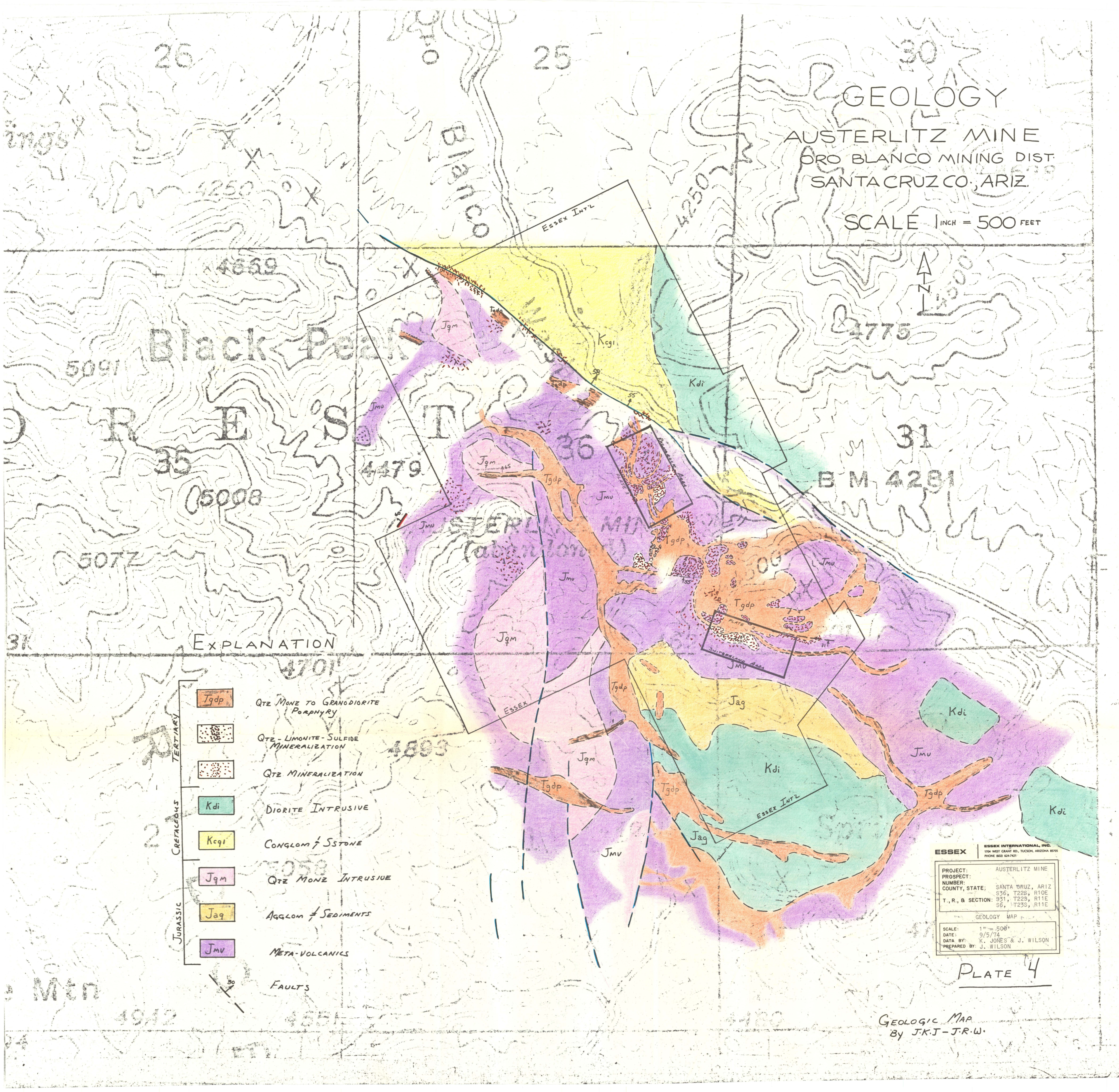
PROJECT: AUSTERLITZ MINE
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 NUMBER:
 COUNTY, STATE: SANTA CRUZ, ARIZ
 T., R., & SECTION: S36, T22S, R10E
 S6, T23S, R11E

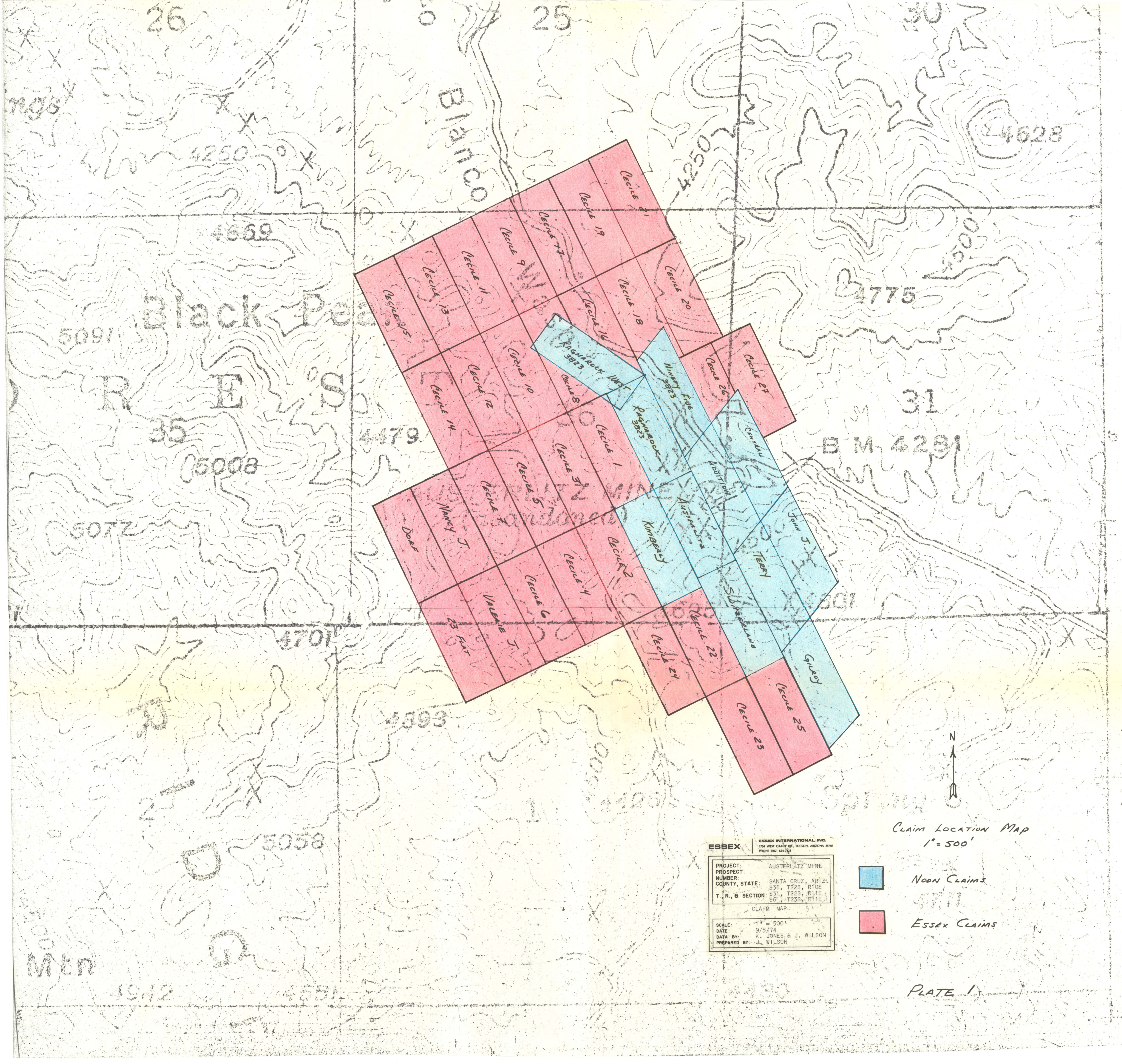
GEOLOGY MAP

SCALE: 1" = 500'
 DATE: 9/5/74
 DATA BY: K. JONES & J. WILSON
 PREPARED BY: J. WILSON

PLATE 4

GEOLOGIC MAP
 By J.K.J.-J.R.W.





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BLANCO

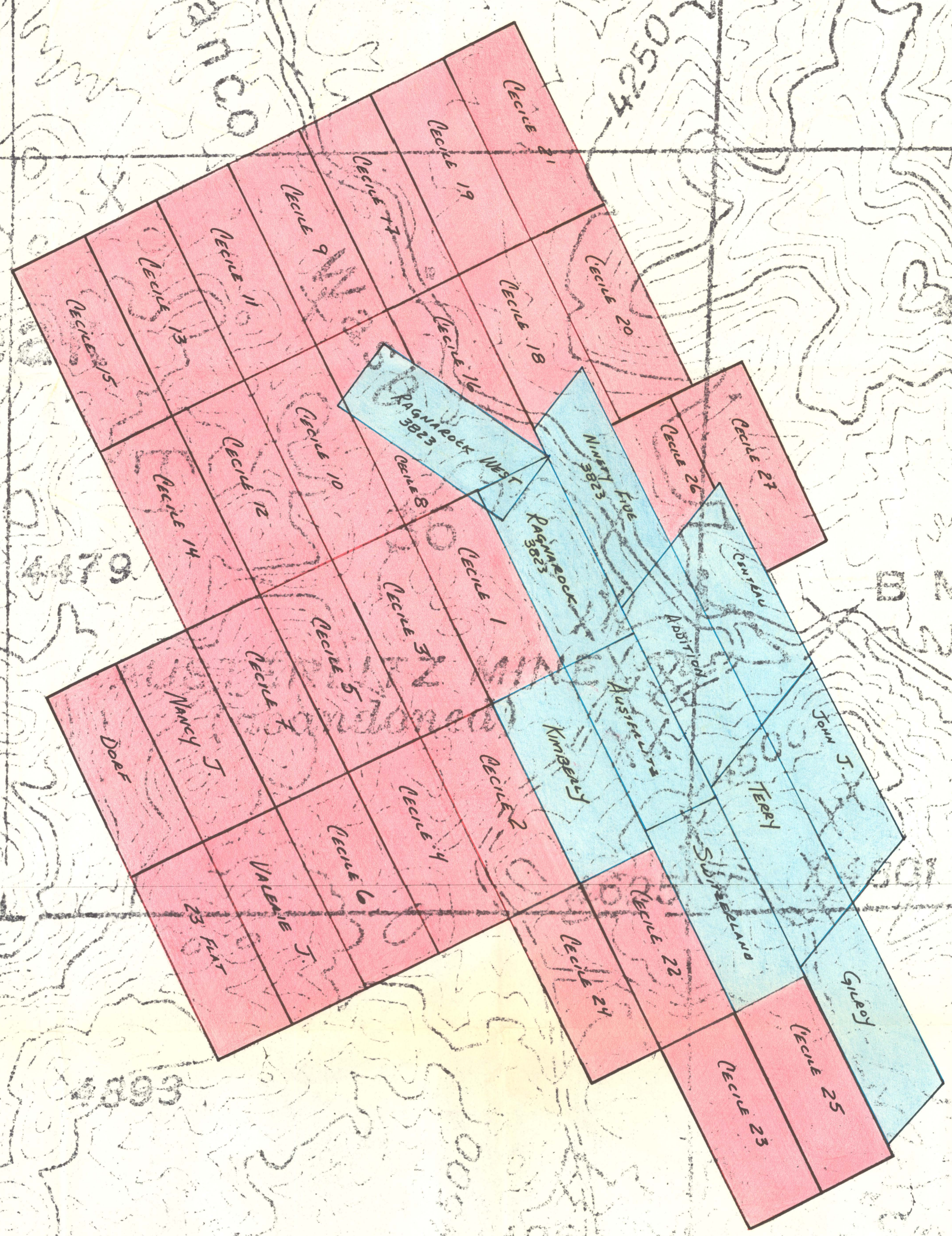
Black Peak

R E S

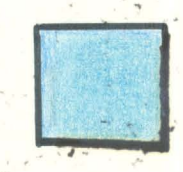
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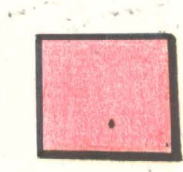
B M 4281



CLAIM LOCATION MAP
1" = 500'



NOON CLAIMS



ESSEX CLAIMS

ESSEX ESSEX INTERNATIONAL, INC.
3704 WEST CRAFT RD., TUCSON, ARIZONA 85705
PHONE (602) 624-7421

PROJECT: AUSTERLITZ MINE
PROSPECT:
NUMBER:
COUNTY, STATE: SANTA CRUZ, ARIZ.
T., R., & SECTION: S31, T22S, R11E
S6, T23S, R11E

SCALE: 1" = 500'
DATE: 9/5/74
DATA BY: K. JONES & J. WILSON
PREPARED BY: J. WILSON

CLAIM MAP

GEOLOGIC REPORT ON THE
AUSTERLITZ MINE
Santa Cruz County, Arizona

By

John R. Wilson and J.K. Jones

August 1974

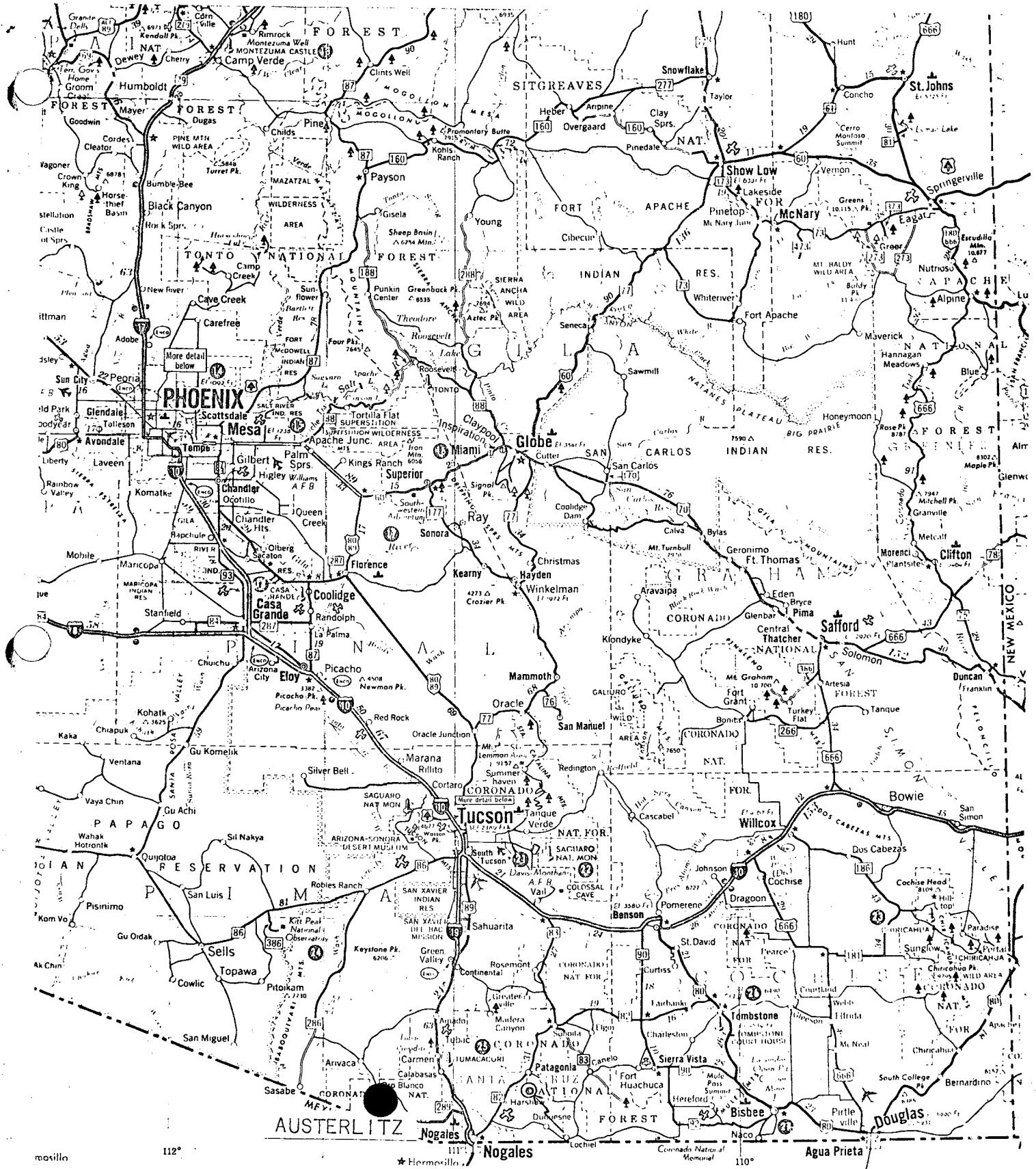
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Maps in Pocket

Property Map - Scale 1" = 500'	Plate 1
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Geology Map - Scale 1" = 500'	Plate 4

LOCATION MAP OF AUSTERLITZ PROPERTY



AUSTERLITZ PROPERTY
SANTA CRUZ CO., ARIZ.

ESSEX

ESSEX INTERNATIONAL INC.
1704 WEST GRANT RD. TUCSON, ARIZONA 85705
PHONE (602) 624-7421

A REPORT ON THE AUSTERLITZ MINE

Santa Cruz County, Arizona

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Location and Access

The Austerlitz property is located in southern Santa Cruz County, Arizona approximately five miles north of the Mexican Border (Fig. 1). Access to the property can be obtained by rough, winding roads from either Arivaca, Arizona, 10 miles to the northwest, or Nogales, Arizona, 35 miles to the southeast (Fig. 1).

Past Production

Production records indicate that approximately \$90,000 in gold was extracted from the property through 1936. It is quite likely that there was earlier unrecorded production and certainly later unrecorded production.

In 1963 Platero Corporation mined and shipped five 50-ton samples to the ASARCO smelter at Hayden, Arizona. The smelter receipts and assay results are shown on the following page.

<u>Number</u>	<u>Gold oz/ton</u>		<u>Silver oz/ton</u>		<u>Copper%</u>	
	<u>Jacobs</u>	<u>ASARCO</u>	<u>Jacobs</u>	<u>ASARCO</u>	<u>Jacobs</u>	<u>ASARCO</u>
1	0.020	0.003	1.05	1.11	0.15	0.09
2	0.015	0.005	1.00	0.91	0.10	0.03
3	0.025	0.045	1.65	1.45	0.26	0.09
4	0.035	0.025	3.15	3.71	1.07	0.90
5	0.030	0.015	1.10	0.82	0.16	0.09
Average:	0.025	0.019	1.59	1.60	0.24	0.24

Although all the values were quite low by 1963 standards, these same assay values, in view of 1974 Ag-Au prices, were what originally interested the Essex staff in the property.

Scope and Purpose

It was the purpose of this investigation to evaluate the potential for the existence of a small to medium sized, open-pit, low grade gold-silver-(copper) deposit. The initial phase of this program consisted of geological mapping on a scale of 1" = 500' and a random geochemical sampling program. As a result of this initial phase, it was concluded that only two areas were sufficiently large enough and continuously mineralized enough to warrant further work. These two areas were then more systematically sampled and more extensively mapped.

Systematic sampling of the two favorable areas consisted of traversing the apparent mineralized zones at several places and channel sampling all outcrop along this traverse. Channel sample cuts ranged from 5 feet to approximately 40 feet in length depending on outcrop availability. All samples taken weighed between 15 and 20 pounds and were assayed at Jacobs Assay Office in Tucson, on a three assay ton basis.

Geology

The rocks in the vicinity of the Austerlitz Mine consist of Jurassic, Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and Jurassic and Cretaceous sedimentary rocks.

The oldest of the intrusive rocks appears to be the Jurassic(?) quartz monzonite plugs observed in the western portion of the map area. These plugs are generally elongate in a north-south direction and range

in size from approximately 400 feet to 1000 feet in the long dimension and 200 feet to 500 feet in the shorter dimension. The quartz monzonite is generally medium grained and generally shows no more than weak chloritically altered mafic minerals. The next youngest intrusive unit appears to be the Cretaceous(?) diorite. These intrusives are generally in the southeastern and north central portions of the mapped area and generally range in size from less than 200 feet to over 1000 feet in diameter. Alteration is generally quite weakly exhibited in this rock and consists only of local chloritic alteration. The youngest of the intrusive rocks observed in the area are the Tertiary(?) quartz monzonite porphyry to granodiorite porphyry dikes. These dikes generally strike northwesterly and are always in close spatial relationship to the observed gold-silver mineralization. These dikes are probably also genetically related to mineralization.

The oldest of the rocks in the area appear to be the Jurassic(?) Cobre Ridge tuff. These rocks in general strike northwesterly and gently to the northeast. The Cobre Ridge tuff is actually a welded rhyolitic to dacitic tuff and is the sole host for all the mineralization observed in the area.

In general, the sedimentary rocks occupy only a small percentage of the mapped area and are of very little importance in the overall geologic picture. Rock types vary from conglomerate to sandstones mixed with agglomerates.

Structurally, the area is marked by an extremely strong northwest trending, northeast dipping fault. This fault in general separates the intrusives and mineralized volcanics on the southwest from the unmineralized intrusives and sedimentary rocks on the northeast. In addition to this major structure, several near east-west trending, north dipping faults were also observed in the area.

Mineralization

Mineralization in the vicinity of the Austerlitz Mine is wholly contained within the Jurassic(?) Cobre Ridge tuff and is basically of two types; quartz veins and relatively thin silicified zones. Of the two types of mineral occurrence, the silicified zones have accounted for the majority of the district's production and offer the only real potential for an economically viable operation.

The silicified zones are quite variable in thickness, ranging from upwards of 40 feet to less than 5 feet, and appear to be either root pendants engulfed in granodiorite porphyry or thin, gently dipping,

"stratabound" units contained within unmineralized and altered volcanics. Silicification within the volcanics appears to take the form of either intense silica flooding or micro-veining or both. In all cases, the silicified zones are found in close spatial relationship to the granodiorite-quartz monzonite porphyry dikes.

Locally within the silicified zones can be found areas of abundant pyrite or limonite. These areas in general were found to carry the highest gold and silver values and were locally observed to contain both chalcopyrite and galena.

As is evidenced by the included geological map, numerous areas of silica-pyrite-limonite were found throughout the area (Pl. 4). Of these numerous zones, only two were of sufficient size to be considered as possible targets. These two, the Switzerland and Ragnarok areas, constitute what was previously described as "stratabound" type mineralization.

The Switzerland area is located approximately 1000 feet south of the old Austerlitz Mine and comprises an area of approximately 600 feet x 100 feet in size (Pl. 2). This zone appears to be approximately 20 feet in thickness and is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes N50W and dips at approximately 10° to the northeast.

The Ragnarok area is located about 1000 feet north of the old Austerlitz Mine and comprises an area of approximately 1000 feet by 500 feet in size (Pl. 3). The thickness of this zone varies from approximately 40 feet at its southern end to approximately 10 feet at its northern end. This zone, like the Switzerland zone, is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes NNW and dips northeasterly at between 10° and 30°.

All other exposed mineralized zones were found to be either very small roof pendants in granodiorite porphyry or so obviously discontinuously mineralized "stratabound" units as to discount their importance.

Conclusions and Recommendations

Following the initial stage of this investigation, it was concluded that only the Ragnarok and Switzerland areas offered the potential for finding a small open-pit gold-silver-(copper) deposit. All other zones were shown to be too limited in tonnage potential or too sporadically mineralized to be economically viable.

Subsequent work has shown that the combined tonnage potential of the Ragnorok-Switzerland areas is probably no more than 1.2 million tons. In addition to relatively small projected tonnages in these area, systematic sampling has indicated that mineralization is much too sporadic and low grade to be considered economic at this time (Pl. 2 & 3).

At no time during the project was any lead to blind mineralization observed and it must be concluded that none exist.

It is concluded that, although numerous, small, near ore grade zones of gold-silver-(copper) mineralization occur throughout the area, their occurrence is much too sporadic and discontinuous to warrant further work. It is recommended that no further work be done on this prospect and that the property option be terminated.

John R. Wilson
August 1974

John R. Wilson

Copies

Spence

husband like

Property

~~John Lewis & Co~~
New York

SPEED MEMO

To Santa Cruz County Recorder

At Nogales, Arizona

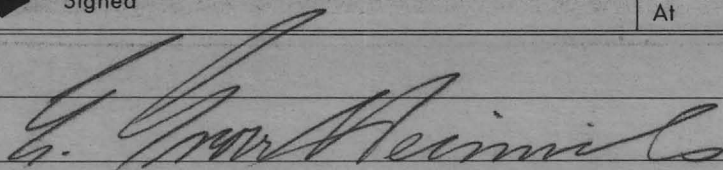
Subject Austerlitz unpatented Mining Claims

Date 9/10/74

County Recorder - Enclosed find personal check number 162 in the amount of \$8.00 to cover the cost of copies of location notices of 8 unpatented claims in the Oro Blanco Mining District, Santa Cruz Co., Ariz. Names of the claims are as follows: Austerlitz, Switzerland, Addition, Central, Perry, John J., Gilroy, & Kimberly - Mining Locations Book no. 30; pps. 306 - 313

PLEASE REPLY TO  Signed

At



Date

Signed

~~RECEIVED~~
SENDER'S COPY

September 16, 1974

Santa Cruz County Recorder
Court House
Nogales, Arizona

Re: Austerlitz Project
Affidavit of Labor
1973-1974

Dear Sir:

Enclosed you will find a 5-page Affidavit of Labor and attached Geological Report and map of the subject property for recording purposes.

Also enclosed is my personal check #171 in the amount of \$2.00 to cover the recording fee. Please return the recorded document to the above letterhead address.

Very truly yours,

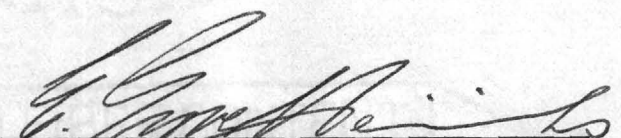
E. Grover Heinrichs
Assistant Exploration Manager

ESSEX INTERNATIONAL, INC.

EGH:td
enclosures

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John R. Wilson, Project Geologist; J. Kenneth Jones, Chief Geologist, all employees of Essex International, Inc., and all qualified by education or experience or both to conduct such work, and can be contacted at 1704 West Grant Road, Tucson, Arizona 85705.

By: 
E. Grover Heinrichs

Subscribed and sworn to before me this _____ day of _____
_____, 1974.

Notary Public

My commission expires:

STATOVS
CORRASABIE
BOND

STATOVS
CORRASABIE
BOND

1 GEOLOGICAL REPORT
2 FOR
3 AFFIDAVIT OF LABOR PERFORMED

4 This report is for the purpose of outlining the extent and nature
5 of work done on the following described unpatented mining claims, all
6 located in portions of Sec. 36, T.22S., R.10E.; 31, T.22S., R11E.;
7 6, T.23S., R.11E, Oro Blanco Mining District, Santa Cruz County,
8 Arizona.

<u>CLAIM NAME</u>	<u>RECORDED</u>	
	<u>Docket</u>	<u>Page</u>
Austerlitz	30	306
Addition	30	308
Central	30	309
Kimberly	30	313
Switzerland	30	307
Terry	30	310
John J.	30	311
Gilroy	30	312

9 The work done on the said property was performed to fulfill the
10 requirements for annual labor for the period of Sept. 1, 1973 to Sept. 1,
11 1974 and consisted of geologic mapping and geochemical sampling.

12 The cost of the work done was in excess of \$100.00/claim and
13 exceeded a total cost of \$800.00 and completes the requirements of
14 assessment work as prescribed by the statutes of the United States and
15 the State of Arizona as they pertain to annual assessment work.

16 The geologic work was done by John R. Wilson, Project Geologist,
17 under the general supervision of J. Kenneth Jones, Chief Geologist, and
18 assisted by E. Grover Heinrichs, Assistant Manager of Exploration, all
19 employees of Essex International, Inc. and all qualified by education or
20 experience or both, to conduct such work.

21 Basic Findings

22 The rocks in the vicinity of the Austerlitz Mine consist of Jurassic,
23 Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and
24 Jurassic and Cretaceous sedimentary rocks.

25 The oldest of the intrusive rocks appears to be the Jurassic(?)
26 quartz monzonite plugs observed in the western portion of the map area.
27 These plugs are generally elongate in a north-south direction and range
28 in size from approximately 400 feet to 1000 feet in the long dimension
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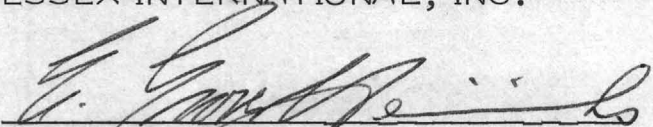
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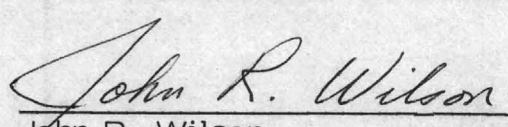
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17 the intrusives and mineralized volcanics on the southwest from the un-
18 mineralized intrusives and sedimentary rocks on the northeast. In addi-
19 tion to this major structure, several near east-west trending, north
20 dipping faults were also observed in the area.

21 See geologic sketch map attached.

22 ESSEX INTERNATIONAL, INC.

23 
24 E. Grover Heinrichs
25 Assistant Manager Exploration

26 _____
27 J. Kenneth Jones
28 Chief Geologist

29 
30 John R. Wilson
31 Project Geologist

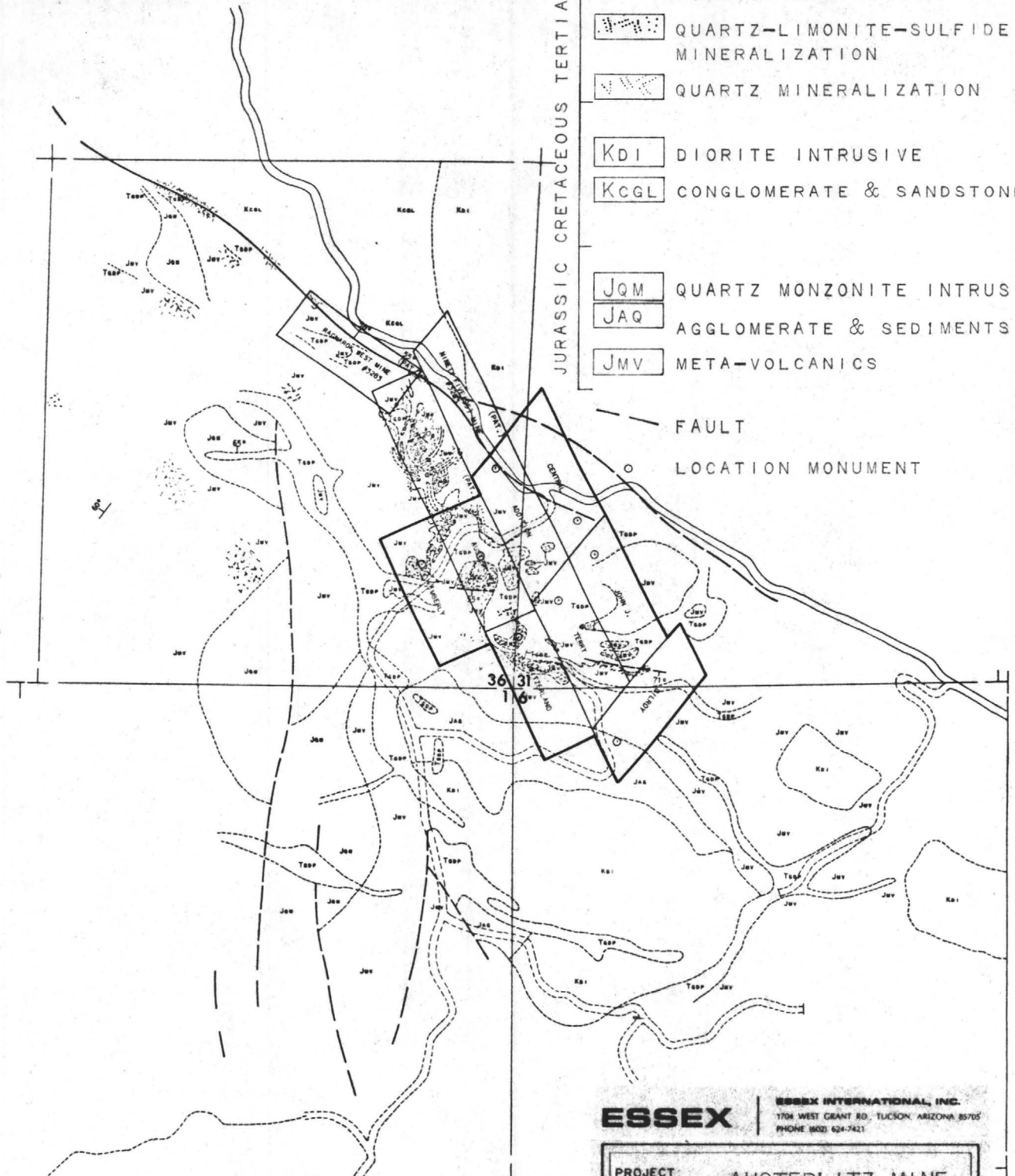
EXPLANATION

JURASSIC CRETACEOUS TERTIARY

- TGDP QUARTZ MONZONITE TO GRANO-DIORITE PORPHYRY
- QUARTZ-LIMONITE-SULFIDE MINERALIZATION
- QUARTZ MINERALIZATION
- KDI DIORITE INTRUSIVE
- KCGL CONGLOMERATE & SANDSTONE
- JQM QUARTZ MONZONITE INTRUSIVE
- JAQ AGGLOMERATE & SEDIMENTS
- JMV META-VOLCANICS

FAULT

LOCATION MONUMENT



ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD., TUCSON, ARIZONA 85705
PHONE (602) 624-7421

PROJECT: AUSTERLITZ MINE
PROSPECT NUMBER:
COUNTY, STATE: SANTA CRUZ, ARIZ
T. R. & SECTION: S36, T22S, R10E
S31, T22S, R11E
S6, T23S, R11E

CLAIM-GEOLOGY MAP

SCALE: 1" = 1610' APPR.
DATE: 9/5/74
DATA BY: K. JONES
PREPARED BY: J. WILSON

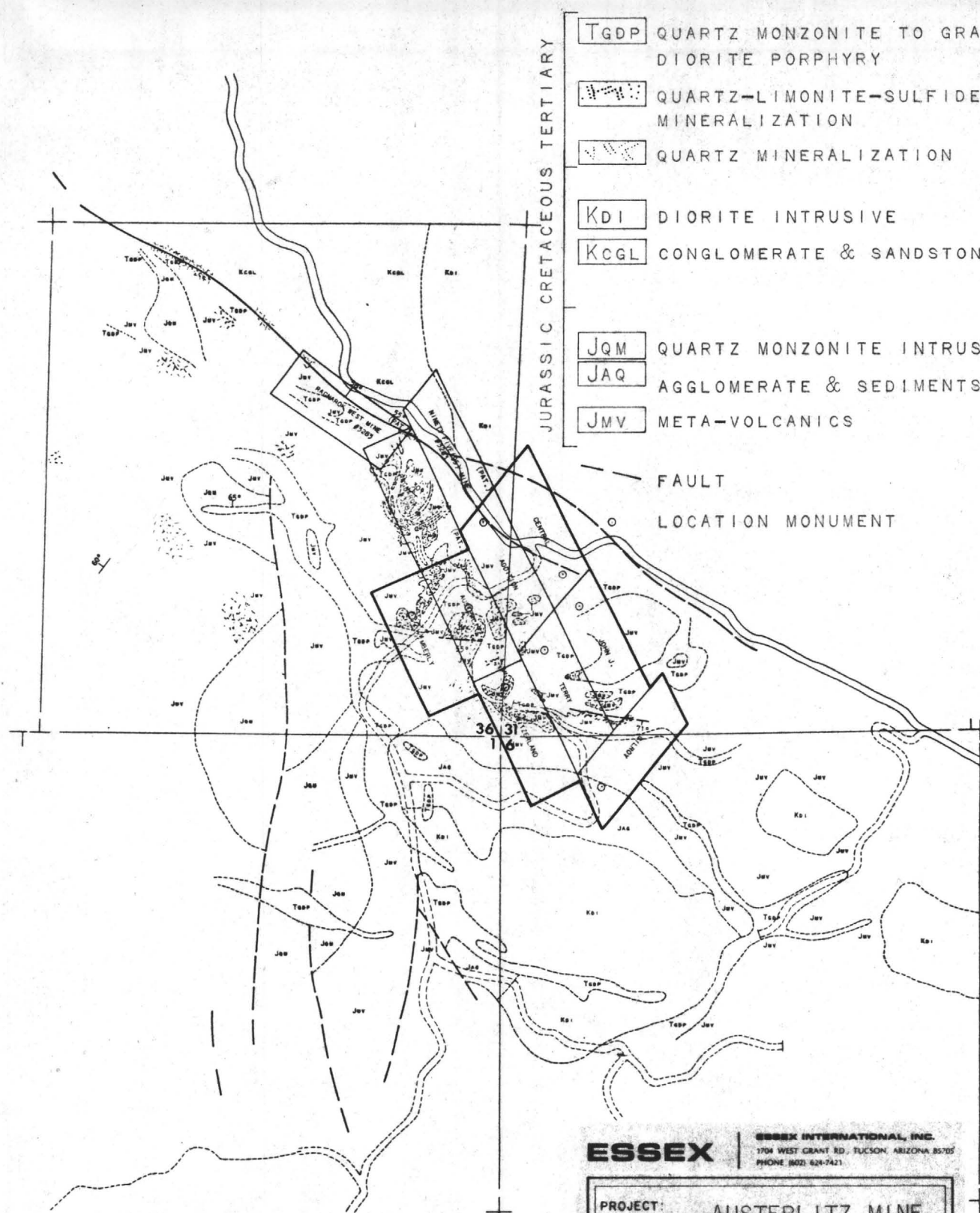
BOUNDARY OF UNPATENTED CLAIMS
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ASSESSMENT YEAR 1973-1974

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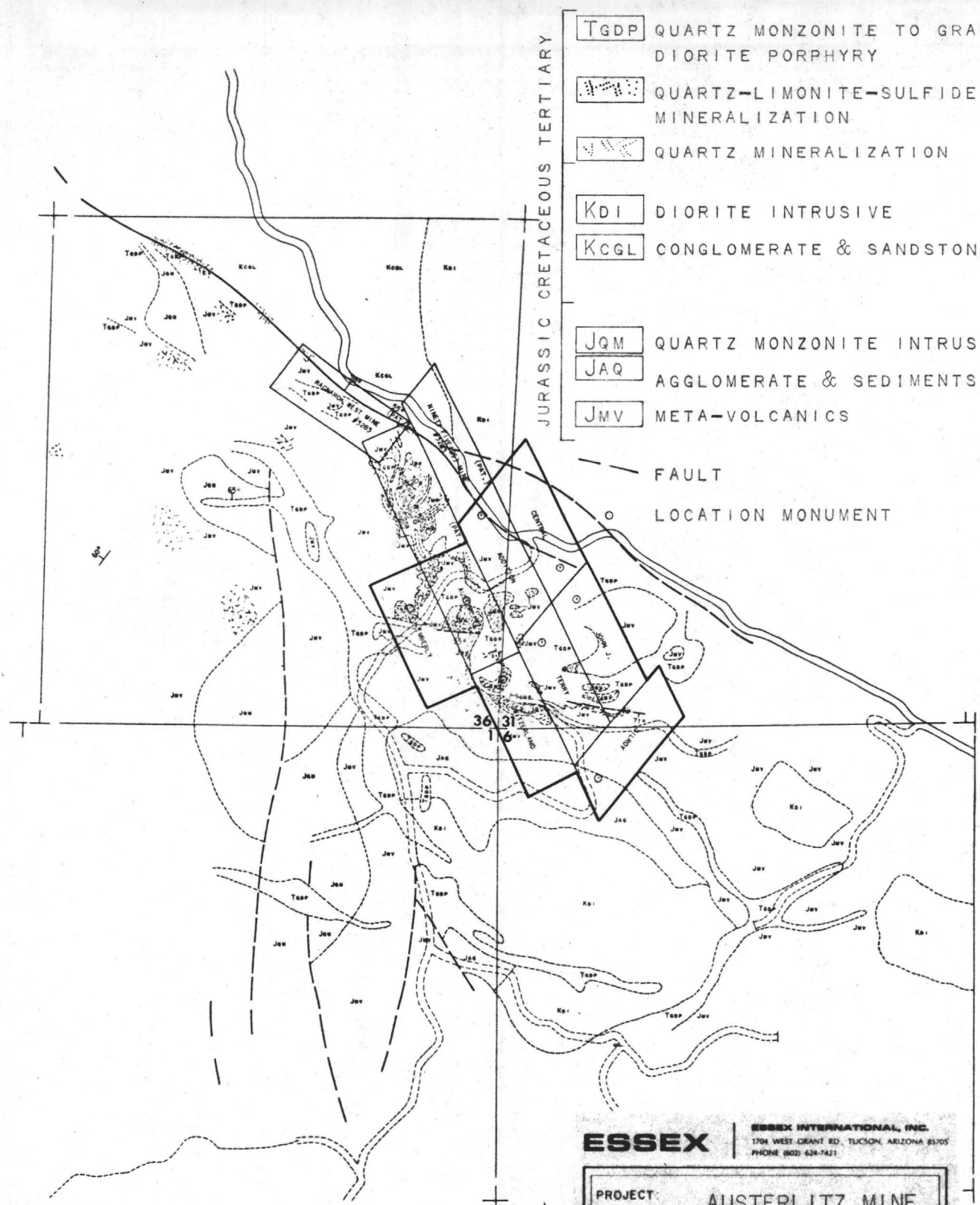
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PHONE (602) 624-7421

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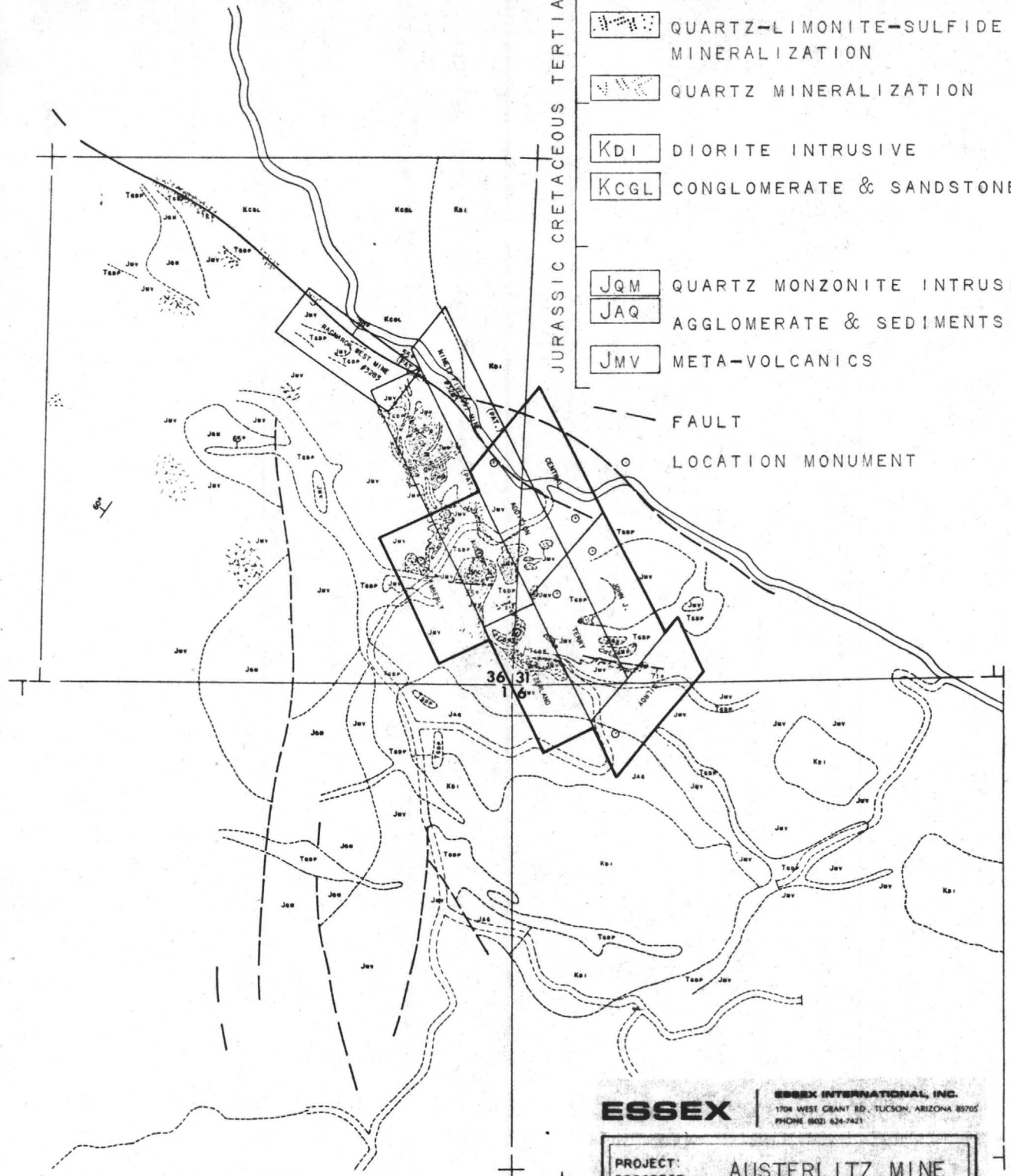
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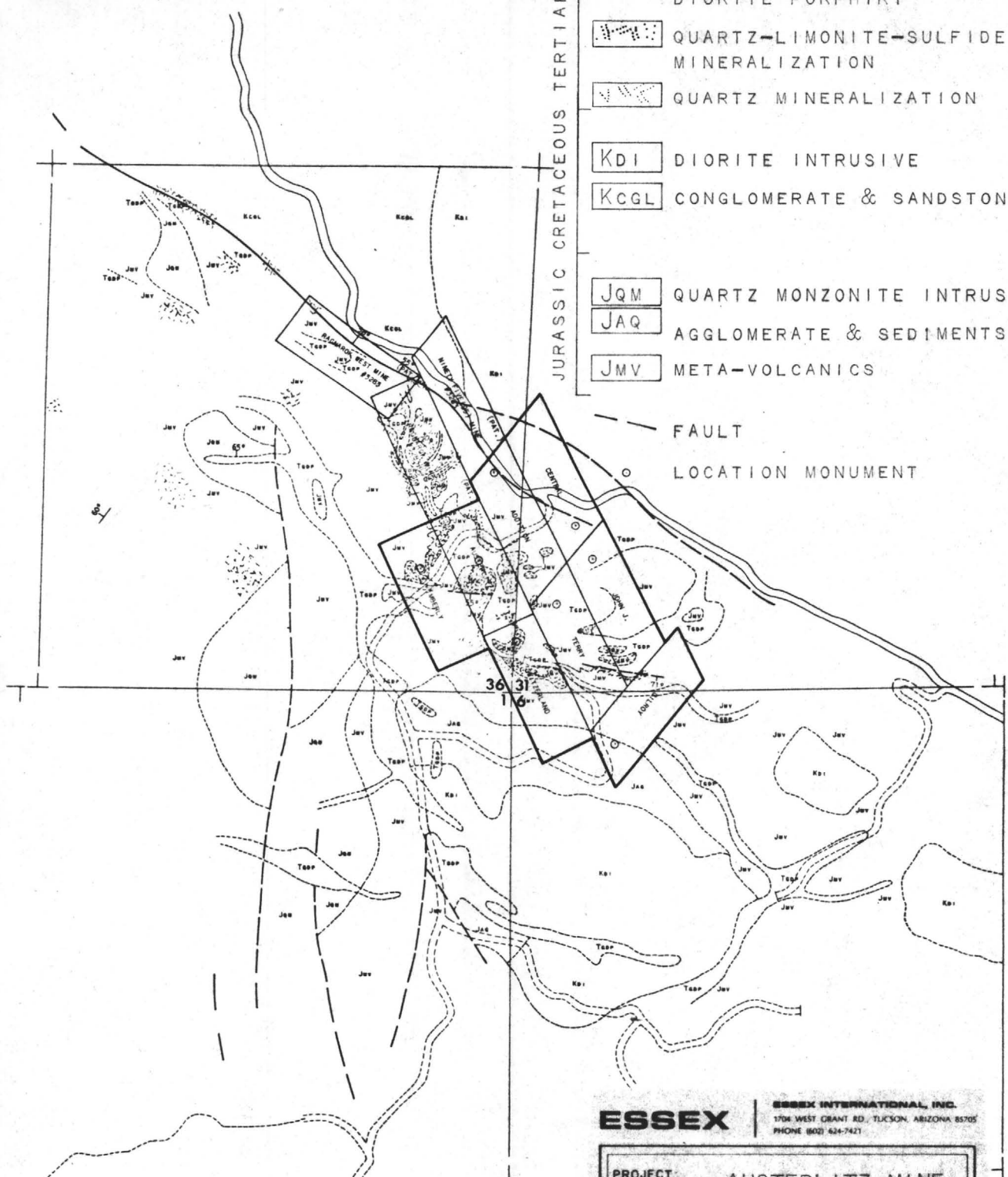


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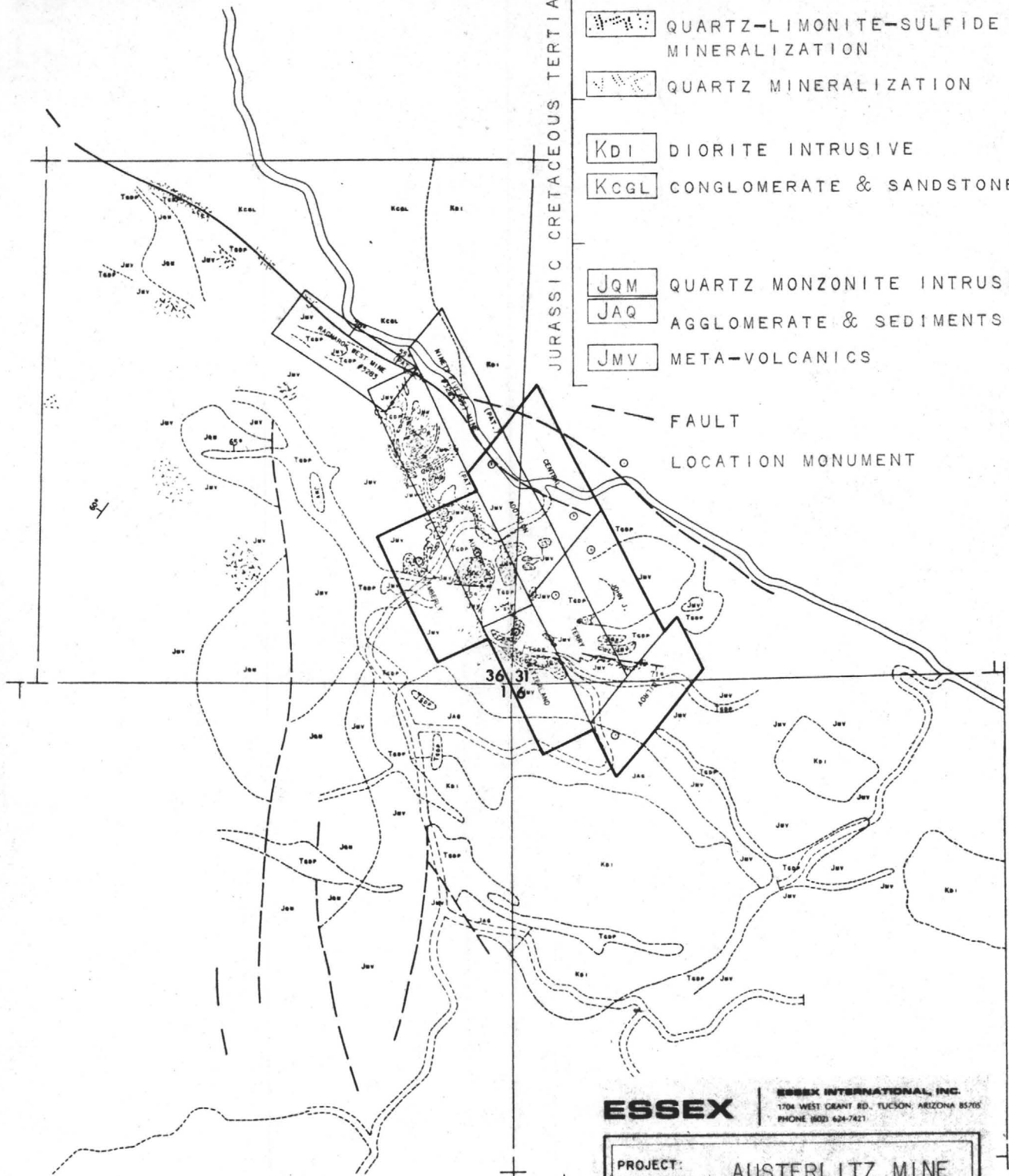


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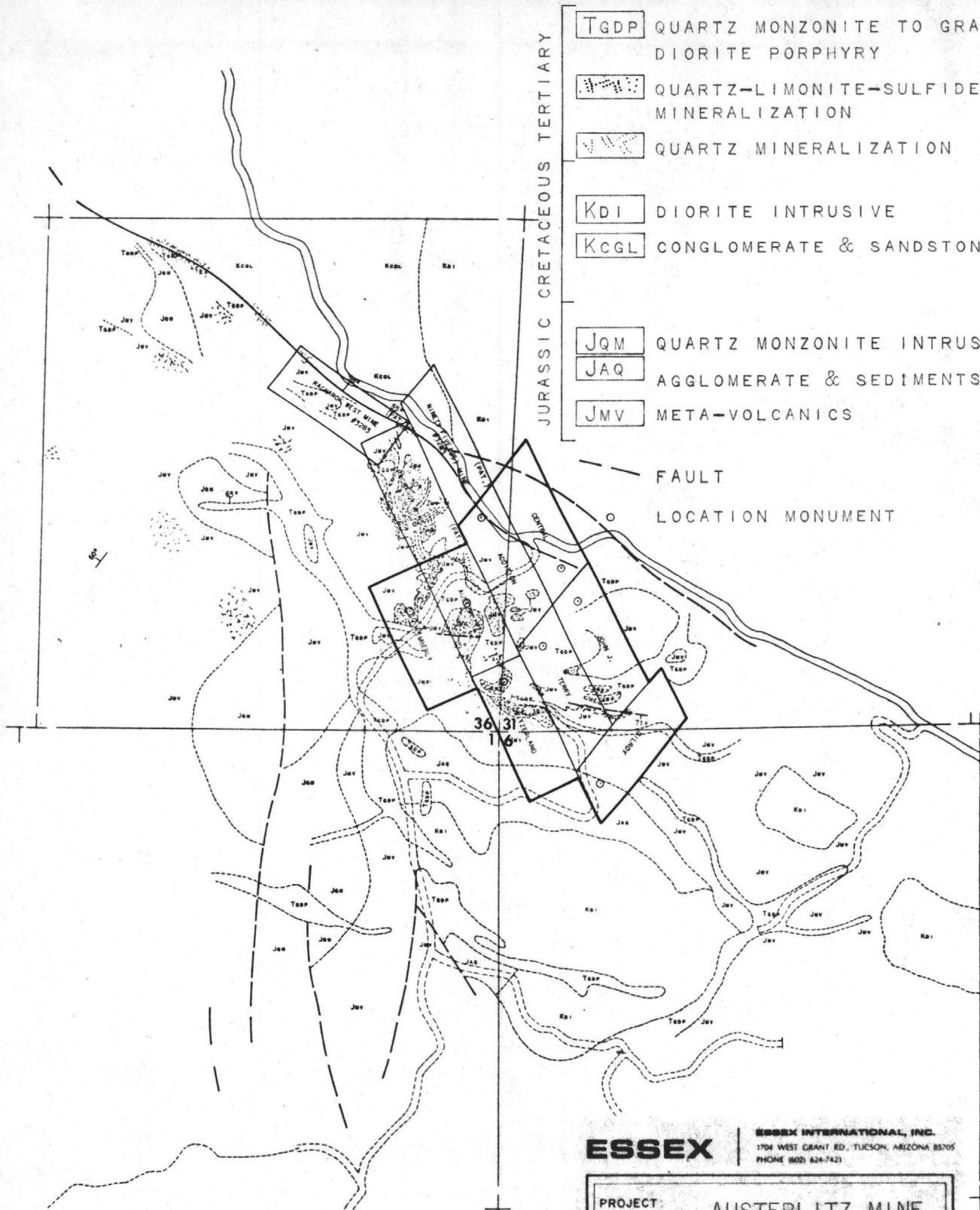


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BOUNDARY OF UNPATENTED CLAIMS
& AREA OF GEOLOGIC STUDY FOR
ASSESSMENT YEAR 1973-1974

GEOLOGIC REPORT ON THE
AUSTERLITZ MINE
Santa Cruz County, Arizona

By

John R. Wilson and J.K. Jones

August 1974

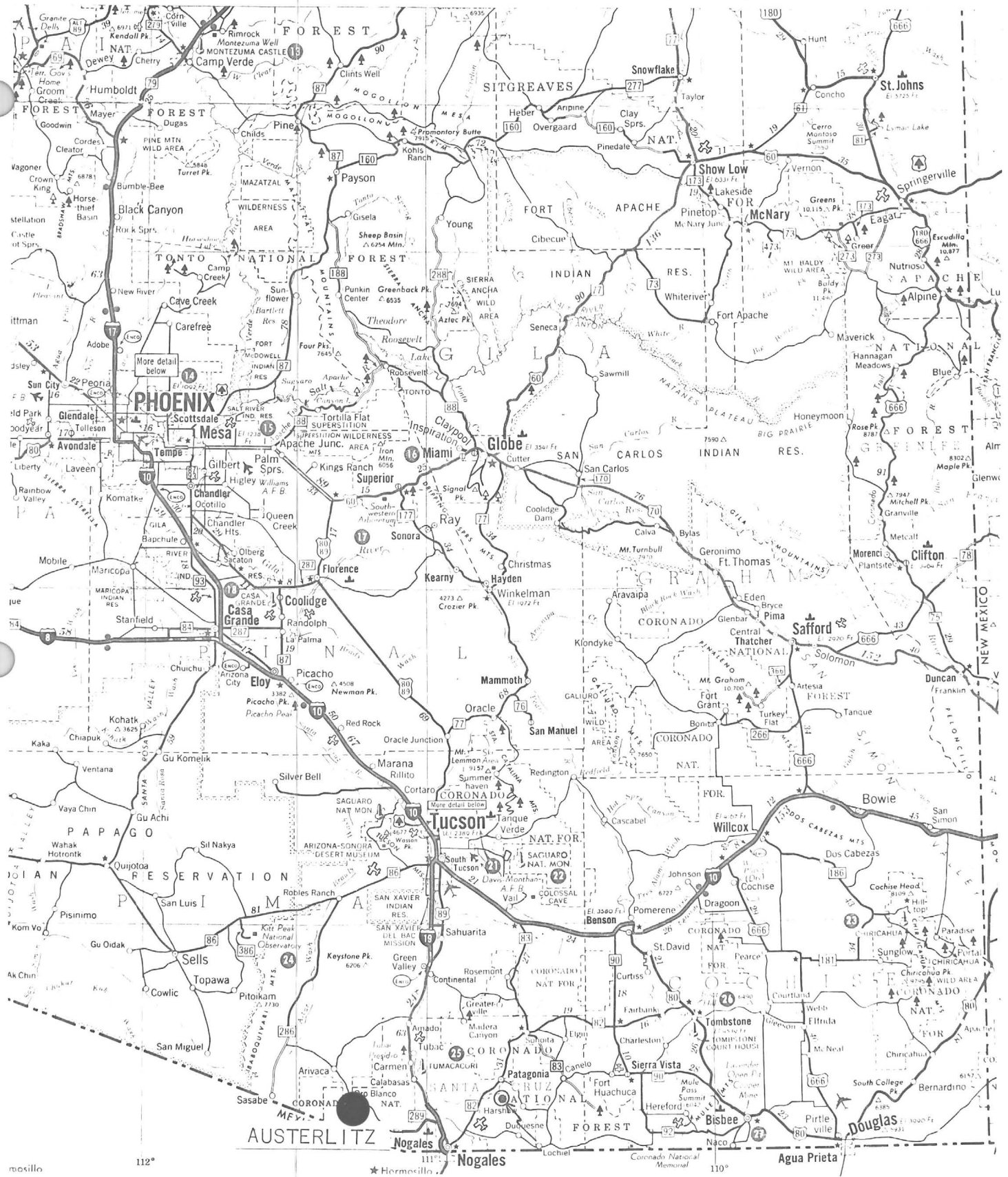
TABLE OF CONTENTS

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Location Map	
Introduction	1
Location and Access	1
Past Production	1 & 2
Scope and Purpose	2
Geology	2 & 3
Mineralization	3 & 4
Conclusions and Recommendations	4 & 5

Maps in Pocket

Property Map - Scale 1" = 500'	Plate 1
Geologic - Sample Location 1" = 40' Switzerland Claim Area	Plate 2
Geologic - Sample Location 1" = 40' Ragnarok Claim Area	Plate 3
Geology Map - Scale 1" = 500'	Plate 4

LOCATION MAP OF AUSTERLITZ PROPERTY



AUSTERLITZ PROPERTY
SANTA CRUZ CO., ARIZ.

ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD. TUCSON, ARIZONA 85705
PHONE (602) 624-7421

A REPORT ON THE AUSTERLITZ MINE

Santa Cruz County, Arizona

The Austerlitz property was introduced to the Essex staff by Mr. Lyall Lichty in March of 1974. Lichty had previously, in 1963, sampled the area by taking several 50-ton samples and had obtained fairly persistent gold and silver values. Following Lichty's introduction and a cursory property examination by P.I. Eimon and J.K. Jones, a property option was signed with the owner, Horton Noon. Noon, a local rancher, controlled the heart of the old camp with three patented and eight unpatented mining claims. Following the signing of the property option agreement, an additional 32 claims were staked in the area by Essex personnel (Pl. 1).

A total of 17 man-days were spent in the field by J.K. Jones, W. Brown, and J.R. Wilson, mapping and extensively sampling the area.

Location and Access

The Austerlitz property is located in southern Santa Cruz County, Arizona approximately five miles north of the Mexican Border (Fig. 1). Access to the property can be obtained by rough, winding roads from either Arivaca, Arizona, 10 miles to the northwest, or Nogales, Arizona, 35 miles to the southeast (Fig. 1).

Past Production

Production records indicate that approximately \$90,000 in gold was extracted from the property through 1936. It is quite likely that there was earlier unrecorded production and certainly later unrecorded production.

In 1963 Platero Corporation mined and shipped five 50-ton samples to the ASARCO smelter at Hayden, Arizona. The smelter receipts and assay results are shown on the following page.

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1	0.020	0.003	1.05	1.11	0.15	0.09
2	0.015	0.005	1.00	0.91	0.10	0.03
3	0.025	0.045	1.65	1.45	0.26	0.09
4	0.035	0.025	3.15	3.71	1.07	0.90
5	0.030	0.015	1.10	0.82	0.16	0.09
Average:	0.025	0.019	1.59	1.60	0.24	0.24

Although all the values were quite low by 1963 standards, these same assay values, in view of 1974 Ag-Au prices, were what originally interested the Essex staff in the property.

Scope and Purpose

It was the purpose of this investigation to evaluate the potential for the existence of a small to medium sized, open-pit, low grade gold-silver-(copper) deposit. The initial phase of this program consisted of geological mapping on a scale of 1" = 500' and a random geochemical sampling program. As a result of this initial phase, it was concluded that only two areas were sufficiently large enough and continuously mineralized enough to warrant further work. These two areas were then more systematically sampled and more extensively mapped.

Systematic sampling of the two favorable areas consisted of traversing the apparent mineralized zones at several places and channel sampling all outcrop along this traverse. Channel sample cuts ranged from 5 feet to approximately 40 feet in length depending on outcrop availability. All samples taken weighed between 15 and 20 pounds and were assayed at Jacobs Assay Office in Tucson, on a three assay ton basis.

Geology

The rocks in the vicinity of the Austerlitz Mine consist of Jurassic, Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and Jurassic and Cretaceous sedimentary rocks.

The oldest of the intrusive rocks appears to be the Jurassic(?) quartz monzonite plugs observed in the western portion of the map area. These plugs are generally elongate in a north-south direction and range

in size from approximately 400 feet to 1000 feet in the long dimension and 200 feet to 500 feet in the shorter dimension. The quartz monzonite is generally medium grained and generally shows no more than weak chloritically altered mafic minerals. The next youngest intrusive unit appears to be the Cretaceous(?) diorite. These intrusives are generally in the southeastern and north central portions of the mapped area and generally range in size from less than 200 feet to over 1000 feet in diameter. Alteration is generally quite weakly exhibited in this rock and consists only of local chloritic alteration. The youngest of the intrusive rocks observed in the area are the Tertiary(?) quartz monzonite porphyry to granodiorite porphyry dikes. These dikes generally strike northwesterly and are always in close spatial relationship to the observed gold-silver mineralization. These dikes are probably also genetically related to mineralization.

The oldest of the rocks in the area appear to be the Jurassic(?) Cobre Ridge tuff. These rocks in general strike northwesterly and gently to the northeast. The Cobre Ridge tuff is actually a welded rhyolitic to dacitic tuff and is the sole host for all the mineralization observed in the area.

In general, the sedimentary rocks occupy only a small percentage of the mapped area and are of very little importance in the overall geologic picture. Rock types vary from conglomerate to sandstones mixed with agglomerates.

Structurally, the area is marked by an extremely strong northwest trending, northeast dipping fault. This fault in general separates the intrusives and mineralized volcanics on the southwest from the unmineralized intrusives and sedimentary rocks on the northeast. In addition to this major structure, several near east-west trending, north dipping faults were also observed in the area.

Mineralization

Mineralization in the vicinity of the Austerlitz Mine is wholly contained within the Jurassic(?) Cobre Ridge tuff and is basically of two types; quartz veins and relatively thin silicified zones. Of the two types of mineral occurrence, the silicified zones have accounted for the majority of the district's production and offer the only real potential for an economically viable operation.

The silicified zones are quite variable in thickness, ranging from upwards of 40 feet to less than 5 feet, and appear to be either root pendants engulfed in granodiorite porphyry or thin, gently dipping,

"stratabound" units contained within unmineralized and altered volcanics. Silicification within the volcanics appears to take the form of either intense silica flooding or micro-veining or both. In all cases, the silicified zones are found in close spatial relationship to the granodiorite-quartz monzonite porphyry dikes.

Locally within the silicified zones can be found areas of abundant pyrite or limonite. These areas in general were found to carry the highest gold and silver values and were locally observed to contain both chalcopyrite and galena.

As is evidenced by the included geological map, numerous areas of silica-pyrite-limonite were found throughout the area (Pl. 4). Of these numerous zones, only two were of sufficient size to be considered as possible targets. These two, the Switzerland and Ragnarok areas, constitute what was previously described as "stratabound" type mineralization.

The Switzerland area is located approximately 1000 feet south of the old Austerlitz Mine and comprises an area of approximately 600 feet x 100 feet in size (Pl. 2). This zone appears to be approximately 20 feet in thickness and is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes N50W and dips at approximately 10° to the northeast.

The Ragnarok area is located about 1000 feet north of the old Austerlitz Mine and comprises an area of approximately 1000 feet by 500 feet in size (Pl. 3). The thickness of this zone varies from approximately 40 feet at its southern end to approximately 10 feet at its northern end. This zone, like the Switzerland zone, is characterized as being a strongly silicified, locally pyritic-limonitic tablet adjacent to a granodiorite porphyry dike. This unit generally strikes NNW and dips northeasterly at between 10° and 30° .

All other exposed mineralized zones were found to be either very small roof pendants in granodiorite porphyry or so obviously discontinuously mineralized "stratabound" units as to discount their importance.

Conclusions and Recommendations

Following the initial stage of this investigation, it was concluded that only the Ragnarok and Switzerland areas offered the potential for finding a small open-pit gold-silver-(copper) deposit. All other zones were shown to be too limited in tonnage potential or too sporadically mineralized to be economically viable.

Subsequent work has shown that the combined tonnage potential of the Ragnorok-Switzerland areas is probably no more than 1.2 million tons. In addition to relatively small projected tonnages in these areas, systematic sampling has indicated that mineralization is much too sporadic and low grade to be considered economic at this time (Pl. 2 & 3).

At no time during the project was any lead to blind mineralization observed and it must be concluded that none exist.

It is concluded that, although numerous, small, near ore grade zones of gold-silver-(copper) mineralization occur throughout the area, their occurrence is much too sporadic and discontinuous to warrant further work. It is recommended that no further work be done on this prospect and that the property option be terminated.

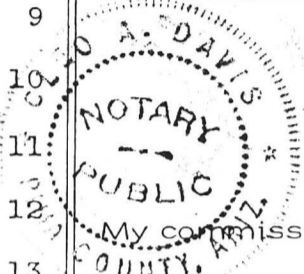
John R. Wilson
August 1974

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John R. Wilson, Project Geologist; J. Kenneth Jones, Chief Geologist, all employees of Essex International, Inc., and all qualified by education or experience or both to conduct such work, and can be contacted at 1704 West Grant Road, Tucson, Arizona 85705.

By: *E. Grover Heinrichs*
E. Grover Heinrichs

Subscribed and sworn to before me this 13th day of September, 1974.



C. A. Davis
Notary Public

MY commission expires:
Nov. 19, 1976

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GEOLOGICAL REPORT
FOR
AFFIDAVIT OF LABOR PERFORMED

This report is for the purpose of outlining the extent and nature of work done on the following described unpatented mining claims, all located in portions of Sec. 36, T.22S., R.10E.; 31, T.22S., R11E.; 6, T.23S., R.11E, Oro Blanco Mining District, Santa Cruz County, Arizona.

<u>CLAIM NAME</u>	<u>RECORDED</u>	
	<u>Docket</u>	<u>Page</u>
Austerlitz	30	306
Addition	30	308
Central	30	309
Kimberly	30	313
Switzerland	30	307
Terry	30	310
John J.	30	311
Gilroy	30	312

The work done on the said property was performed to fulfill the requirements for annual labor for the period of Sept. 1, 1973 to Sept. 1, 1974 and consisted of geologic mapping and geochemical sampling.

The cost of the work done was in excess of \$100.00/claim and exceeded a total cost of \$800.00 and completes the requirements of assessment work as prescribed by the statutes of the United States and the State of Arizona as they pertain to annual assessment work.

The geologic work was done by John R. Wilson, Project Geologist, under the general supervision of J. Kenneth Jones, Chief Geologist, and assisted by E. Grover Heinrichs, Assistant Manager of Exploration, all employees of Essex International, Inc. and all qualified by education or experience or both, to conduct such work.

Basic Findings

The rocks in the vicinity of the Austerlitz Mine consist of Jurassic, Cretaceous and Tertiary intrusive rocks, Jurassic volcanic rocks and Jurassic and Cretaceous sedimentary rocks.

The oldest of the intrusive rocks appears to be the Jurassic(?) quartz monzonite plugs observed in the western portion of the map area. These plugs are generally elongate in a north-south direction and range in size from approximately 400 feet to 1000 feet in the long dimension and 200 feet to 500 feet in the shorter dimension. The quartz monzonite is generally medium grained and generally shows no more than weak chloritically altered mafic minerals. The next youngest intrusive unit appears to be the Cretaceous(?) diorite. These intrusives are generally in the southeastern and north central portions of the mapped area and generally range in size from less than 200 feet to over 1000 feet in diameter. Alteration is generally quite weakly exhibited in this rock and consists only of local chloritic alteration. The youngest of the in-

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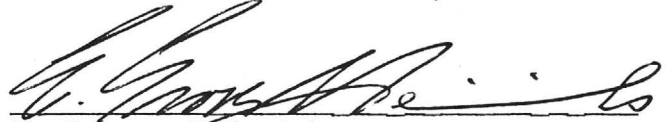
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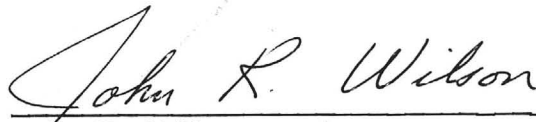
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21 See geologic sketch map attached.

22 ESSEX INTERNATIONAL, INC.

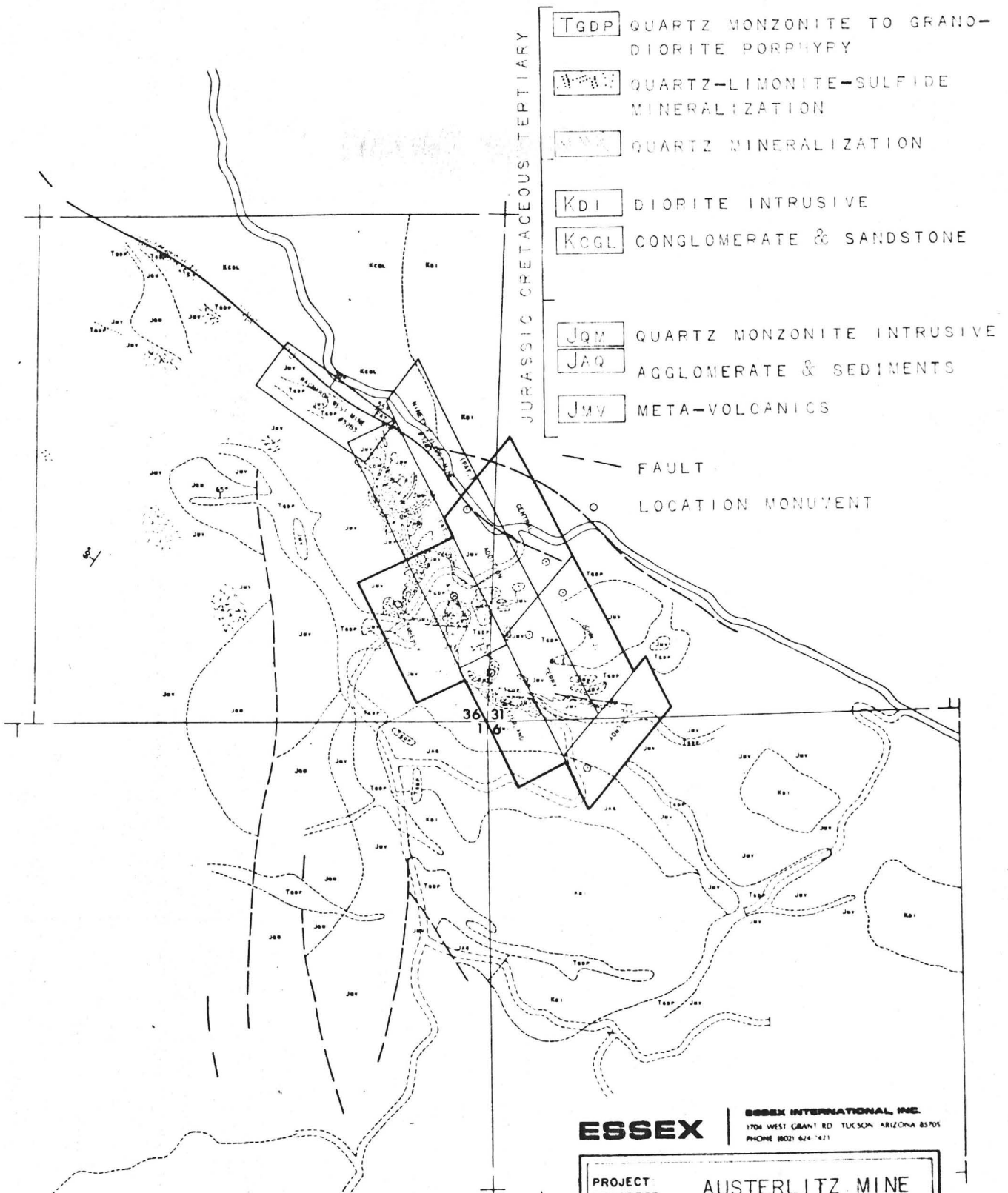
23 

24 E. Grover Heinrichs
25 Assistant Manager Exploration

26 

27 John R. Wilson
28 Project Geologist

EXPLANATION



- TGD QUARTZ MONZONITE TO GRANO-DIORITE PORPHYRY
- TLM QUARTZ-LIMONITE-SULFIDE MINERALIZATION
- TQ QUARTZ MINERALIZATION
- KDI DIORITE INTRUSIVE
- KCGL CONGLOMERATE & SANDSTONE
- JQM QUARTZ MONZONITE INTRUSIVE
- JAS AGGLOMERATE & SEDIMENTS
- JMV META-VOLCANICS
- FAULT
- o LOCATION MONUMENT

ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD TUCSON ARIZONA 85705
PHONE (602) 624-4211

PROJECT	AUSTERLITZ MINE
PROSPECT NUMBER	SANTA CRUZ, ARIZ
COUNTY, STATE	S36, T22S, R10E
T. R & SECTION	S31, T22S, R11E
	S6, T23S, R11E
CLAIM-GEOLOGY MAP	
SCALE	1" = 1610' APPR.
DATE	9/5/74
DATA BY	K. JONES
PREPARED BY	J. WILSON

BOUNDARY OF UNPATENTED CLAIMS & AREA OF GEOLOGIC STUDY FOR ASSESSMENT YEAR 1973-1974

FEE NO. 9074

STATE OF ARIZONA, County of Santa Cruz — SS.
do hereby certify that the within instrument was filed and recorded at the request of Essex International, Inc.
on SEP 18 1974 A. D., 1974 at 9:07 o'clock A. M. Docket No. 179 Page 59-63,
Records of Santa Cruz County, Arizona.

WITNESS my hand and official seal the day and year first above written.
G. ESPINOSA MORENO, COUNTY RECORDER

By Laura G. Jentes
Deputy

A PROPOSAL FOR EXPLORATION OF AUSTERLITZ PROPERTY

The following proposal relates to our first stage of sampling and exploration of the austerlitz group of claims in the Oro Blanco district of Santa Cruz county, Arizona, with a view to eventually proving up a large tonnage of gold-silver ore suitable for open pit mining.

The attached print shows the claims and the approximate limits of the silicified areas in which gold and silver values are found. It is estimated that these areas contain at least 40,000,000 tons. Additional areas of silicification also exist. In 1935, Eagle-Picher took 102 samples at various points in the outlined silicified areas and an arithmetic average of their assays gave gold 0.10 oz/ton, silver 3.99 oz/ton. (previously reported in our Austerlitz file)

It is now proposed to further sample the areas by trenching and diamond drilling to determine if the idea that there is 40,000,000 or more tons of possible open cut ore has merit.

Over most of the outlined areas there is a minimum of over-burden or debris and only a minor amount of cleaning is necessary in order to trench in the solid silicified zone. We propose to cut small trenches in the silicified material using air hammers for a total length of 2000 feet, in the positions shown on the attached map. The sample cut would have a cross-section of one foot wide by one foot deep and individual samples would be 4 feet long. Each sample would weigh 600-700 pounds and would be packed by burrs to a central point. The samples would be crushed to $\frac{1}{2}$ inch and riffled down to 10 pounds for shipment to the assay office in Tucson.

The Horton-Barkley tunnels (shown on the attached print) cut through a portion of the area and have approximately 150 feet of backs. These tunnels would provide an additional 400 lineal feet of sampling.

There would then be a total of 600 cut samples weighing 180 tons in all. All of the samples on surface would contain iron oxide from the weathering of the sulfide mineralization, as would some of the tunnel samples. In order to obtain assays of unoxidized material, it is, therefore, proposed to drill ten vertical diamond drill holes at the points designated on the print. The holes would be 200 to 350 feet in depth. All the core would be split. Half would be sent for assay in four foot sample sections. It is estimated that an additional 600 samples would be obtained from this drilling program. It will be noted that the Eagle-Picher sampling in the unoxidized section of the Crawford tunnel and small stope gave an average assay of gold 0.072 oz/ton and silver 5.95 oz/ton for the 42 samples taken.

If desirable, a composite sample of both the trench and diamond drill samples could be prepared for metallurgical test work.

If the results of this proposal warrant further work, the next step would be to outline the area to be mined by further vertical diamond drill holes and to take several large cuts totaling 10,000 tons, in the ore zone to further check the metal contents and metallurgy.

We estimate that we can cut a minimum of 28 lineal feet of samples per day so that the program would take about 90 working days. Platoro now owns most of the equipment required.

The diamond drilling would be contracted and could be done during the sampling period.

ESTIMATED COSTS OF THE PROGRAM

Purchase of 2 Pavement Breakers	\$ 600.
" of Chisel Point Steel	80.
" of Additional air pipe	200.
" of second hand crusher & motor	1000.
" of sample riffler & steel for pans	150.
" of sample bags, core boxes, etc.,	250.
Moving equipment	200.
Labor for 90 days - foreman, 2 miners one crusher man, one cook	6570.
Burro man and burros	1620.
Workman's compensation, social security and unemployment taxes	1140.
Living expenses	1080.
Supplies - gasoline and oil for engines and miscellaneous other supplies	1200.
Travel expenses including transport of samples	2000.
Diamond drilling under contract 2500 feet @ \$5.50 per foot	13750.
Additional charges for casing, etc.,	500.
Assaying 1200 samples @ \$2.50 for gold and silver	3000.
Allowance for contingencies	1660.
TOTAL ESTIMATED COSTS	\$ 35000.

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Additional charges for casing, etc.,	500.
Assaying 1200 samples @ \$2.50 for gold and silver	3000.
Allowance for contingencies	1660.
TOTAL ESTIMATED COSTS	\$ 35000.

By: F. E. Gregory

Eagle-Picher D. D. Hole No 27

Drilled June 27, 1935 to July 11, 1936

Near Camphius Shaft - Strike N 89° 45' W.-Dip -70°

- 0 -36' Soil and Debres
- 36'6"-37' Quartz stringer- no value
- 37 -45 Fractured Sidewinder diorite
- 45 -67 Massive Sidewinder diorite
- 67'-75'2" Massive diorite with small quartz seams. No value
- 75'2"-82 Red andesite 8" stringer quartz at 82'- low values
- 82 -86 Gray tyoe andesite. No value
- 86 -93 Some vein matter of narrow 1/8" to 1" veins of quartz cutting silicified andesite. Value low, some ZnS-PbS and Cu-Fe. The vein has no true walls et this point. The mineralization has followed a brecciated zone in andesite.
- 93-99'3" Andesite partly replaced by quartz and carrying narrow stringers of quartz and calcite.
- 93-137 Sidewinder diorite
- 137-140'6" Sidewinder type of diorite
- 140'6"-164'6"- Andesite. Slight mineralization at 146'4". Andesite shattered and decomposed. Some calcite.
- 164'6"-177 Sidewinder diorite. Well decomposed
- 177 -179 Andesite and diorite relict structure.
- 179- 189 Sidewinder diorite
- 189- 195 Andesite shattered with some calcite and some pyrite. no values.
- 195-201 Massive andesite. Bottom of hole

A S S A Y S

86'6" - 87'6"	Gold	NF	-	Silver	0.1	Core Recovery	90%
87'6" - 88'6"		T	-		0.1		70%
88'62 - 89'6"		0.06			0.9		70%
89'6" - 90'6"	}	0.10			2.2		60%
90'6" - 91'6"		T			0.8)		
91'6" - 92'6"		NF			NF)		60%
92'6" -93'6"		0.015			0.6)		
93'6" - 97'0"		0.05			1.4		25%
97 -97'11"		0.08			1.3		25%
97'11"-99'3"		0.03			1.1		40%

R 10 E T 22 S

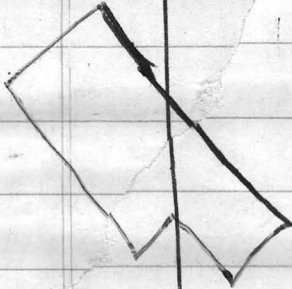
Section 22 E

Sec 23

all sec in federal land.

all private land.

M.S. 1128
Pat No. 1050373
10/5/31



Lot No. 40 Pat No 6776 11/29/82
No 47 .. 10719 6/30/86
No 46 - 108668 8/03/86

BLM

Is it open for mineral entry?

Yes

Is surface under Taylor grazing lease?

Is any of it state land?

Whatever records show.

Patent No. 702353 Under what law issued

702353

Aug 13, 1919

Chapter 6
Title 32

Colorado Forest open
in Texas

Yellow Jacket

10/5/31

M.S. 1128

Pat No. 1050373

~~In Section 22~~

~~M.S. 4128~~

Mineral Survey

Pat No.

6776

10719

10866

11/29/82

6/30/82

8/23/86

Lot 40

Lot 47

Lot 46

May 28th, 1963.

Memorandum of verbal agreement between Platoro Corporation and Horton E. Noon regarding the Austerlitz group of claims.

1. Three (3) patented mining claims situated in Oro Blanco Mining District, Santa Cruz County, Arizona. All described in mineral survey #3285.

Recorded August 13th, 1919, in book #6 page 585.

- (a) Ragnarok
- (b) Ragnarok West
- (c) Ninety Five

All patented by George T. Ballachey, now owned by Horton E. Noon.

- (b) Eight (8) unpatented mining claims situated in Oro Blanco Mining District, Santa Cruz County, Arizona.

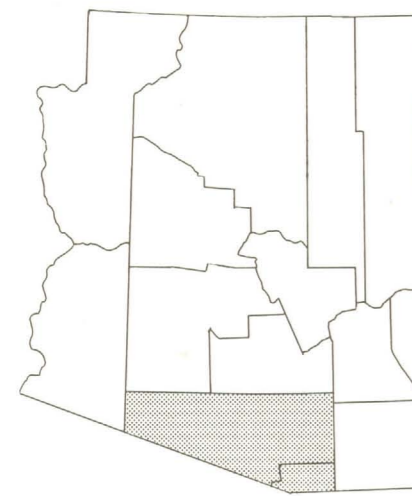
(a)	Austerlitz	Book 30, page 306	County	Recorders	Office
(b)	Addition	Book 30, page 308	"	"	"
(c)	Central	Book 30, page 309	"	"	"
(d)	Kimberly	Book 30, page 313	"	"	"
(e)	Switzerland	Book 30, page 307	"	"	"
(f)	Terry	Book 30, page 310	"	"	"
(g)	John J.	Book 30, page 311	"	"	"
(h)	Gilroy	Book 30, page 312	"	"	"

All located in the name of Horton E. Noon, noticed May 4th and received May 8th, 1959.

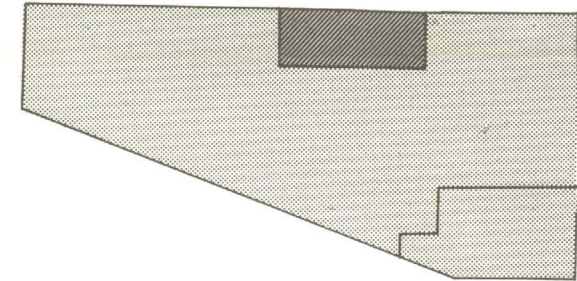
2. All claims owned by Horton E. Noon and his wife Muriel B. Noon, mailing address, Patagonia Road, Nogales, Arizona.
3. This agreement gives Platoro a lease on all the above mining claims with option to purchase the complete group for \$500,000.00.
4. Royalty payments are 10% of net smelter returns on ore, or concentrates shipped, or 5% of the returns received from gold and/or silver bullion sold.
5. A maximum royalty of \$25,000 is payable in any calendar year and if more than this amount is due to Noon, it will be held for him with no interest payable.
6. No royalty payments are required for 2½ years from the date of this agreement, but starting in the 31st month after the date of this agreement a minimum royalty payment of \$200. per month is required.
7. All royalties paid will apply to the purchase price.
8. Platoro is required to do the yearly assessment work on the unpatented claims starting with the assessment work due before September 1st, 1963. Also, Platoro is required to pay the taxes on the patented claims.
9. Platoro may give up the lease at any time after September 1st, 1963, provided notice is given at least 90 days before September 1st, of any year.

10. If Platoro gives up the lease it will have 90 days to remove all equipment except permanent buildings on foundations, and no other liabilities except that Noon is to receive copies of all engineering data, maps and assays.
11. If Platoro exercises its option to purchase at any time, then a maximum yearly payment of \$25,000 per year will be made with no interest on the remainder of the purchase price.
12. All contiguous claims located by Platoro or its assigns shall become the property of Noon if Platoro gives up the lease.
13. All values obtained from contiguous claims which Platoro locates will come under the royalty arrangements in the same manner as the values from claims listed in clause 1.
14. Usual clauses concerning no liabilities to Noon by mining operations.
15. Platoro to either provide present water seepage from the mine or to provide a maximum of 1000 gallons per day of water suitable for cattle to drink.
16. Platoro has the right to erect a plant on any claim or claims and to make a tailings disposal area so long as precautions are taken for the protection of livestock from cyanide and other solutions. Noon recognizes the problem of possible poisoning of his cattle from cyanide if this chemical is used in the process and will co-operate with Platoro to the mutual advantage of both parties.
17. Platoro has the right to assign this agreement to associated companies or individuals.

INDEX MAP OF ARIZONA
Showing Location of Pima and Santa Cruz Counties.



Map showing sources of topographic data.

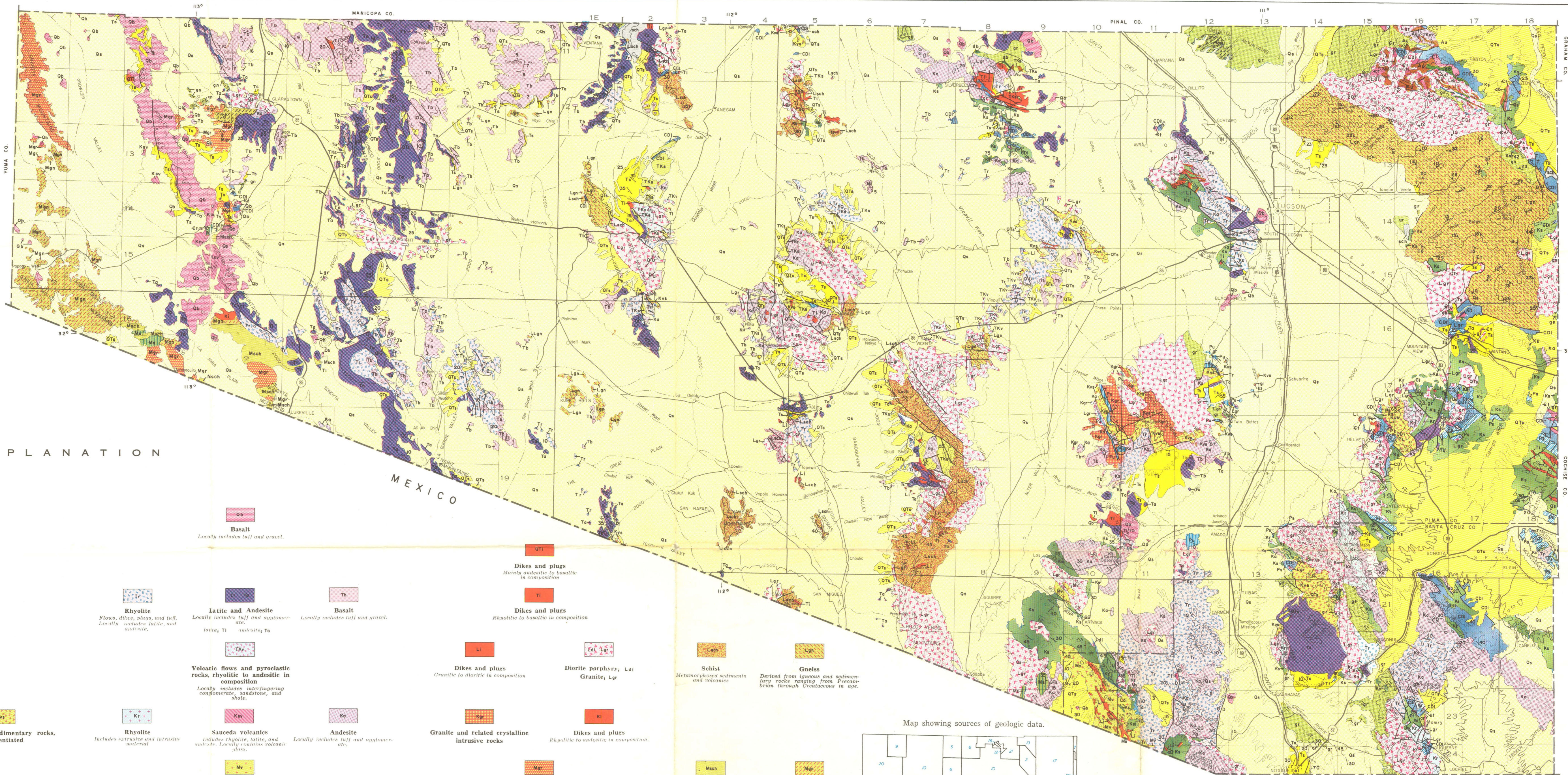


U.S. Geol. Survey Topographic Map of Arizona (1956)
Army Map Service, Tucson, Arizona 2" sheet (1959)

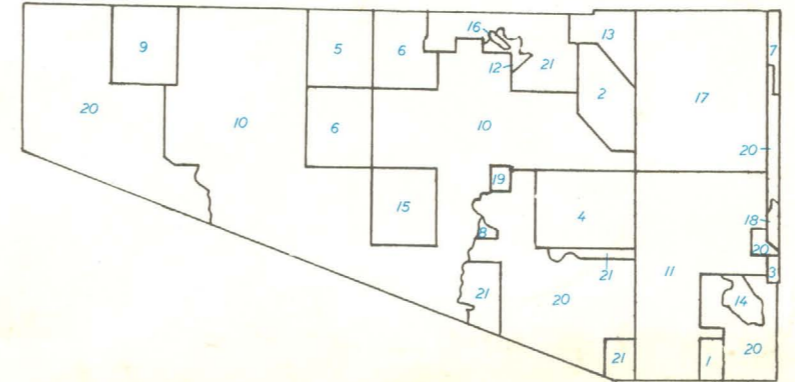
EXPLANATION

<p>QUATERNARY</p> <p>LARAMIDE</p> <p>TERTIARY</p> <p>CRETACEOUS</p> <p>MESOZOIC UNDIVIDED</p> <p>PERMIAN</p> <p>CARBONIFEROUS AND DEVONIAN</p> <p>YOUNGER PRECAMBRIAN</p> <p>OLDER PRECAMBRIAN</p>	<p>Qs Silt, sand, and gravel</p> <p>Qts Sand, gravel, and conglomerate</p> <p>Ts Sandstone, shale, and conglomerate <i>Includes some volcanic rocks.</i></p> <p>Tks Sandstone, shale, and conglomerate <i>Includes some volcanic rocks.</i></p> <p>Ks Shale, sandstone, conglomerate, and limestone, locally metamorphosed</p> <p>Kv Sandstone, shale, and conglomerate locally metamorphosed</p> <p>Pl Permian limestone, sandstone, and shale</p> <p>CD Carboniferous and Devonian limestone, shale, sandstone, and quartzite</p> <p>C Bolsa and Troy quartzites and Abrigo and related limestones</p> <p>A Apache group <i>Mescal limestone, Dripping Spring quartzite, Barnes conglomerate, Pioneer shale, and Saguona conglomerate. Locally includes some Cambrian Troy quartzite.</i></p>	<p>Qb Basalt <i>Locally includes tuff and gravel.</i></p> <p>Ti Rhyolite <i>Flows, dikes, plugs, and tuff. Locally includes latite, and andesite.</i></p> <p>Kr Rhyolite <i>Includes extrusive and intrusive material.</i></p> <p>Pl Limestone, shale, sandstone, and quartzite</p>	<p>Tl Latite and Andesite <i>Locally includes tuff and conglomerate. Latite, Tl; andesite, To</i></p> <p>TKv Volcanic flows and pyroclastic rocks, rhyolite to andesite in composition <i>Locally includes interfingered conglomerate, sandstone, and shale.</i></p> <p>Kv Sauceda volcanics <i>Includes rhyolite, latite, and andesite. Locally contains volcanic dikes.</i></p> <p>Mv Volcanic rocks <i>Flows, dikes, and plugs of andesite to rhyolite composition. Locally includes interfingered conglomerate, sandstone, and shale.</i></p>	<p>DTl Dikes and plugs <i>Mainly andesitic to basaltic in composition.</i></p> <p>DT Dikes and plugs <i>Rhyolite to basaltic in composition.</i></p> <p>L Dikes and plugs <i>Granite to diorite in composition.</i></p> <p>Lgr Diorite porphyry; Granite, Lgr</p> <p>Kgr Granite and related crystalline intrusive rocks</p> <p>Mgr Granite and related crystalline intrusive rocks</p>	<p>Lsch Schist <i>Metamorphosed sediments and volcanics.</i></p> <p>Msch Schist <i>Metamorphosed sediments and volcanics.</i></p> <p>Lgn Gneiss <i>Derived from igneous and sedimentary rocks ranging from Precambrian through Cretaceous in age.</i></p> <p>Mgn Gneiss</p>
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<p>SYMBOLS</p> <p>Contact, showing dip</p> <p>Fault, showing dip <i>Dashed where approximately located</i> U, upthrown side; D, downthrown side</p> <p>Thrust fault (T, upper plate)</p> <p>Axis of anticline</p> <p>Axis of syncline</p> <p>Strike and dip of beds</p> <p>Strike and dip of foliation</p> <p>Mine</p> <p>Quarry</p>	<p>Diabase</p> <p>Granite and related crystalline rocks</p> <p>Schist</p> <p>Granite gneiss</p>
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Map showing sources of geologic data.

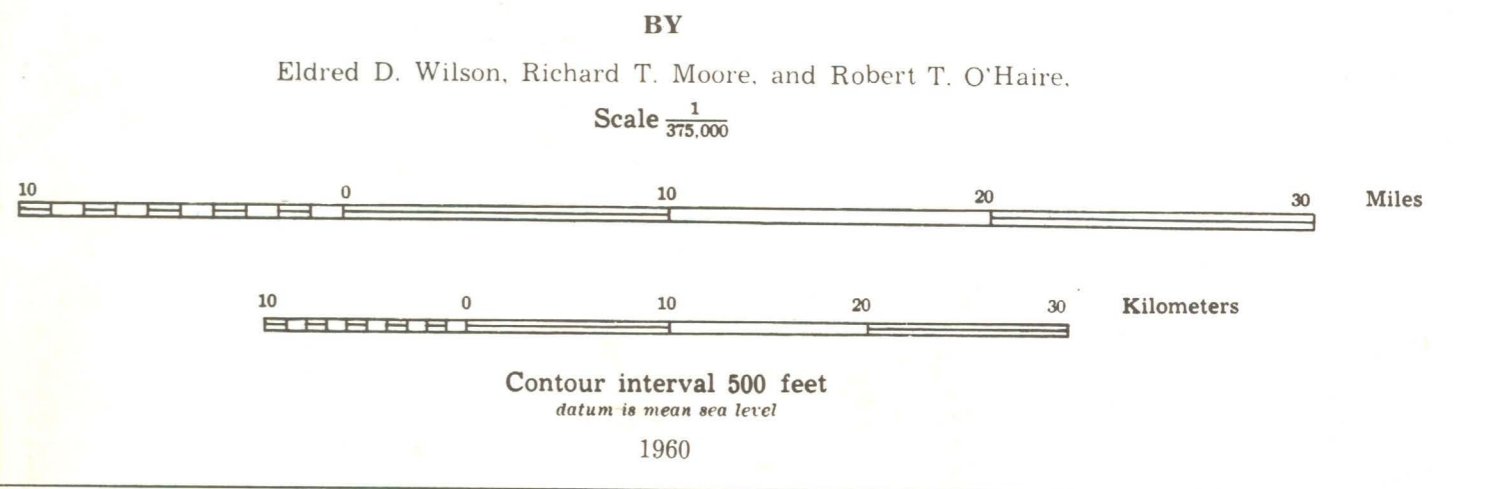


GEOLOGIC MAP OF PIMA AND SANTA CRUZ COUNTIES, ARIZONA

PREPARED BY THE ARIZONA BUREAU OF MINES UNIVERSITY OF ARIZONA TUCSON, ARIZONA

BY Eldred D. Wilson, Richard T. Moore, and Robert T. O'Haire.

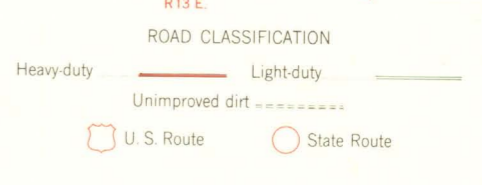
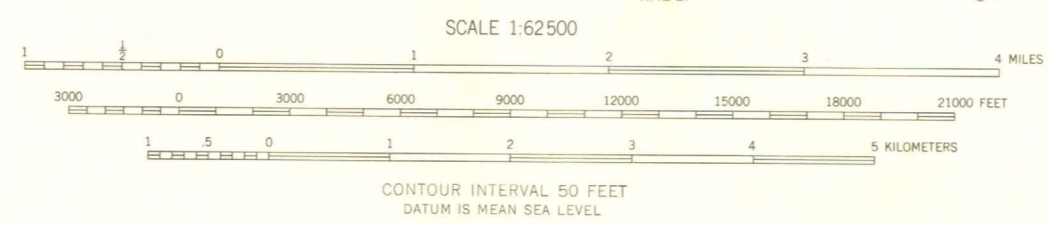
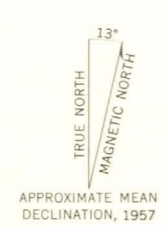
Scale = 1/50,000



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Control by USGS, USC&GS, and USCE
Topography by planetable surveys 1939
Culture revision and field check 1957
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system,
central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Certain land lines are omitted in T. 22 S., R. 11 E.
because of insufficient data



TUBAC, ARIZ.
N3130—W11100/15

