REPORT ON
GEOLOGICAL AND GEOCHEMICAL SURVEYS

by
D.W. Piroshco, B.Sc.

on the
Kem 1-9, Audry 1-2, Audrey East and Audrey West
MINERAL CLAIMS

situated east of Thutade Lake
in the Omineca Mining Division

57°05'N Lat.; 126°41'W Long.
NTS 94E/2E

owned by
INCA RESOURCES INC.

work by
TEXASGULF, INC.

January 1982

Vancouver, B.C.

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INTRODUCTION

Location, Access and Terrain

The Kem-Audrey property is located 11 km east of the northerly tip of Thutade Lake in the Toodoggone River area of north-central B.C. (Figures 1 and 2). The nearest supply and transportation centres are Smithers, located about 250 km to the south, and Watson Lake, Yukon, located about 350 km to the north.

Direct access to the property is via a chartered helicopter from Smithers. The Sturdee Valley airstrip, maintained on a year around basis, is located 25 km northwest of the claims.

The Kem-Audrey claims are situated between 1400 m and 2000 m elevation in steep, glaciated, mountainous terrain. Many portions of the property are inaccessible because of steep or unstable slope conditions. Alpine vegetation and well exposed rock are found above the timberline which ranges between 1666 m and 1700 m. The major area of interest is confined to the western portion of the claim group, situated well above the timberline.

Property History and Definition

The Fokker mineral claim, staked by D.W. Chisholm on September 16, 1929, represents the earliest known geological work performed on the property. His claim tag was recently found near the western boundary of the Kem-Audrey claim group. In 1968 Kennco Explorations, (Western) Ltd. staked the Attycelley group, in the same general area, and held the claims until 1973. During this period exploration consisted mainly of geochemical soil surveys.

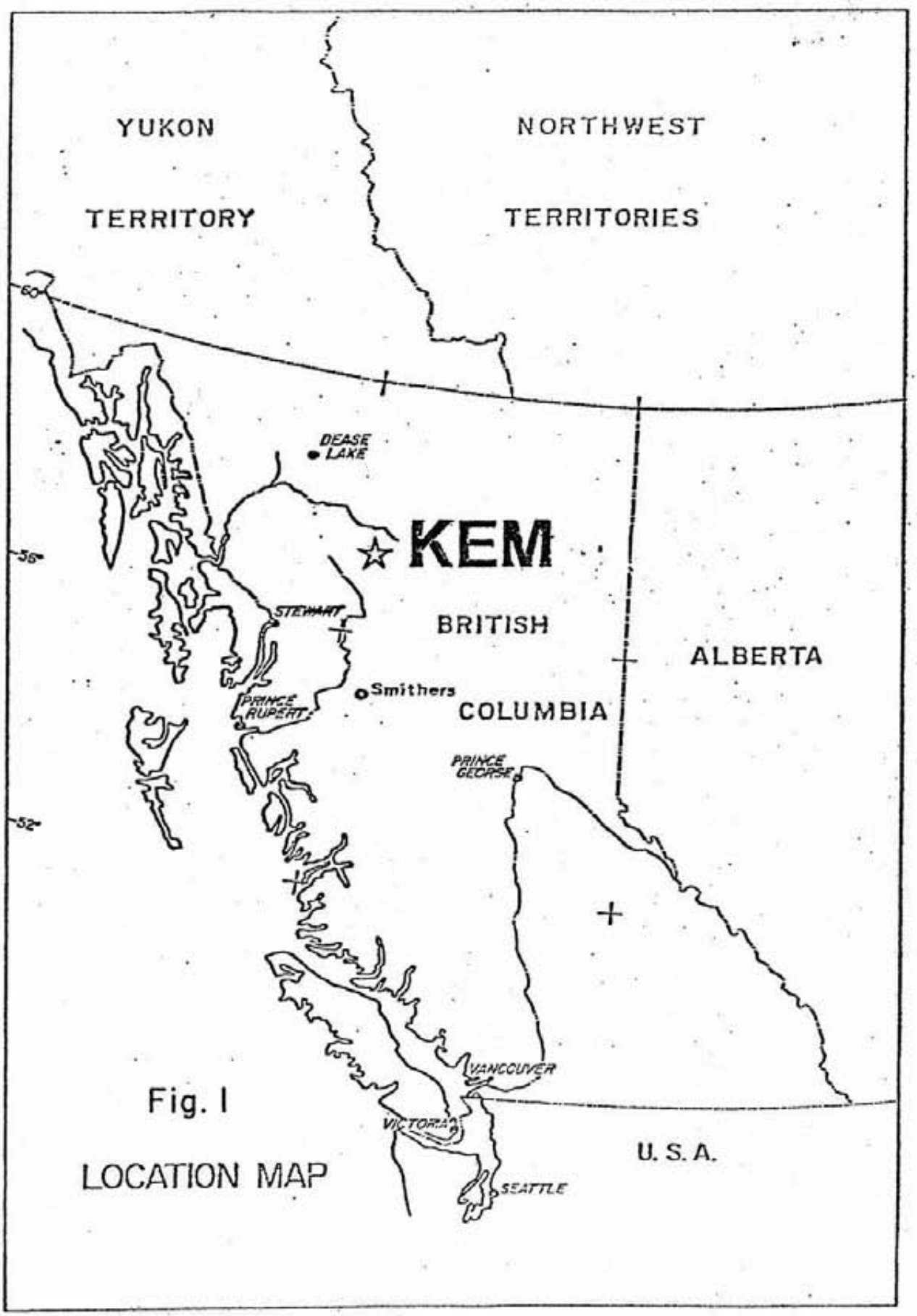
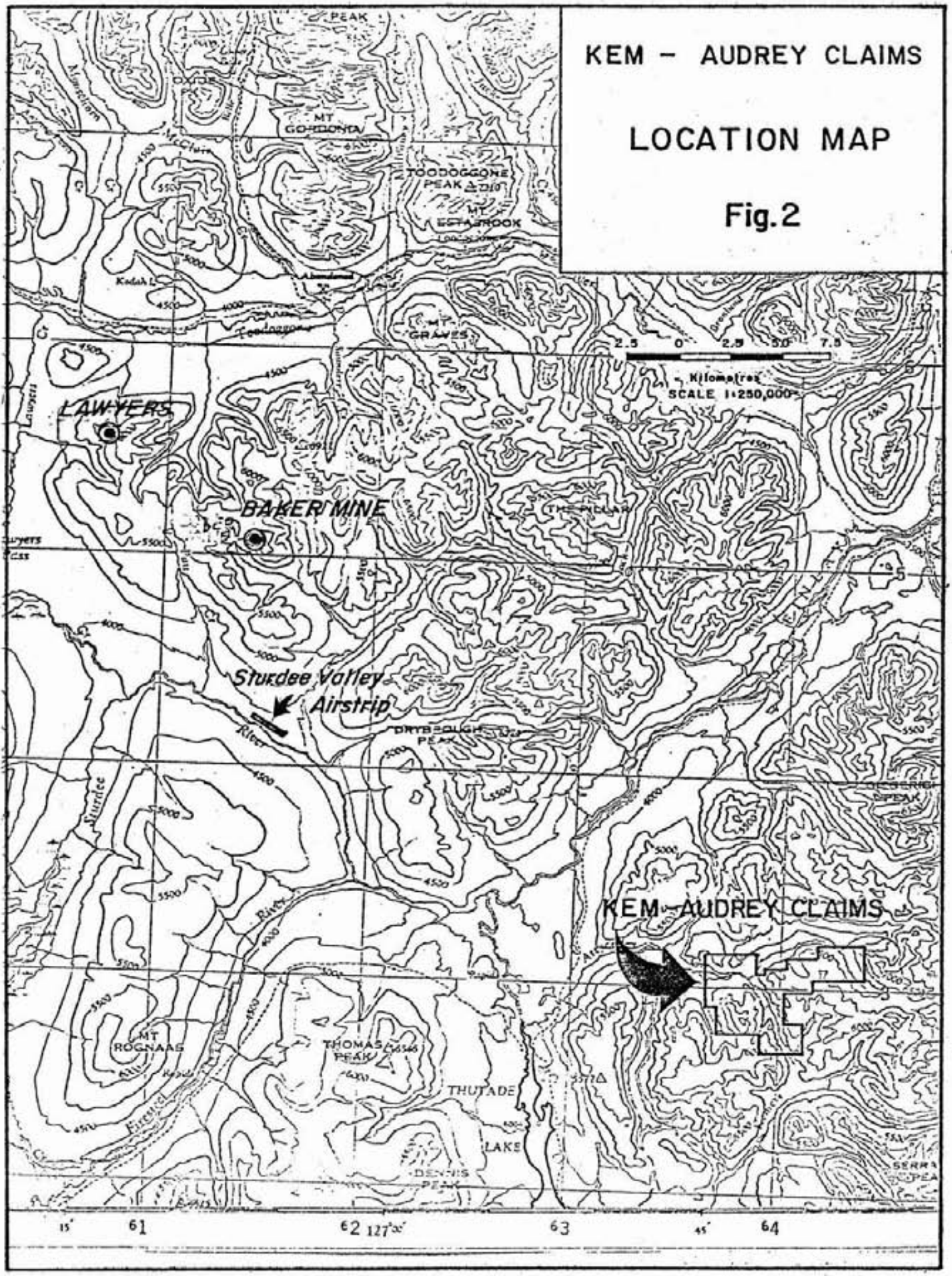


Fig. 1

LOCATION MAP


KEM - AUDREY CLAIMS
LOCATION MAP
Fig.2
LAWYERS
BAKER MINE
Sturdee Valley
Airstrip
KEM - AUDREY CLAIMS
MT GORDONIA
TOODOGGONE PEAK
MT GRAVES
THE PILLAR
DRYBOUGH PEAK
MT ROGNAAS
THOMAS PEAK
THUTADE LAKE
DENNIS PEAK
SCALE 1:250,000
Kilometres
61
62
63
64

In 1976 the Audrey East and West claims were staked by D. Stelling and were purchased by Bishop Mines Ltd. in March of that year. In October 1977, geochemical rock and soil surveys, magnetometer and VLF surveys were conducted over a 1000 m long sulfide-bearing quartz vein. Geophysical interpretations were inconclusive because survey lines were not properly oriented with respect to the mineralized trend. Geochemical surveys outlined copper, lead, zinc, mercury, silver and gold anomalies over the vein trend for about 400 m. (Smitheringale, 1980).

In 1979 KEM 1, 2 and 3 claims were staked by Colin Harivel, and on March 1980, ABM Mining acquired all interests with respect to the Kem-Audrey claims (bill of sale 4642). ABM then commissioned C.A. Ager and Associates Ltd. to conduct an airborne magnetometer and VLF electromagnetic survey over the claims. The survey outlined the mineralized vein as well as several other anomalies. In July and August of 1980, following geological mapping, ABM Mining Group conducted detailed soil geochemistry surveys over the area of the main showing and a reconnaissance soil geochemical survey over the remainder of the claim group and certain adjacent areas (Smitheringale, 1980).

The Kem 4 and 5 claims were staked for Inca Resources Inc. in June 1980. At that time it was realized that the location of certain claims shown on the B.C. Ministry of Energy, Mines and Petroleum Resources claim map was incorrect. In July 1980, the Audry 1 and 2 claims were located, and in August 1980, the original KEM 1, 2 and 3 claims were abandoned and restaked for Inca Resources Inc. along with the KEM 6, 7 and 8 claims. KEM 9 was added in September 1980.

On March 23, 1981 an agreement was reached between Inca Resources Inc. and Texasgulf Canada Ltd., (now Kidd Creek Mines Ltd.) in which Texasgulf acquired an option on the Kem-Audrey property.

Summary of Work Completed in 1981

Geological Surveys

A total of 16 days of 1:10,000 scale geological mapping and prospecting was carried out on the Kem-Audrey property by D. Piroshco between July 15 and September 15, 1981.

Geochemical Surveys

Geological mapping and prospecting was accompanied by detailed rock sampling over areas of interest. In total, 170 rock samples were taken which were analyzed for Cu, Pb, Zn, Ag and Au. 155 samples were also analysed for Mo, ten selected samples were analysed for Ba and two samples were analysed for 35 elements by semi-quantitative techniques (Appendix A). Samples were taken every 5 m to 15 m over quartz veins and silicified zones. All samples were shipped to Bondar-Clegg and Co. Ltd. of North Vancouver for geochemical analysis.

Property Status

The Kem-Audrey property consists of 86 claim units aggregating approximately 2150 hectares in 13 MGS claims (Figure 3). Appendix B is a schedule of claims, due dates, and other relevant data. All claims are within the Omineca Mining Division.

GEOLOGY

Regional Setting

The Kem-Audrey property is situated within a Mesozoic volcanic

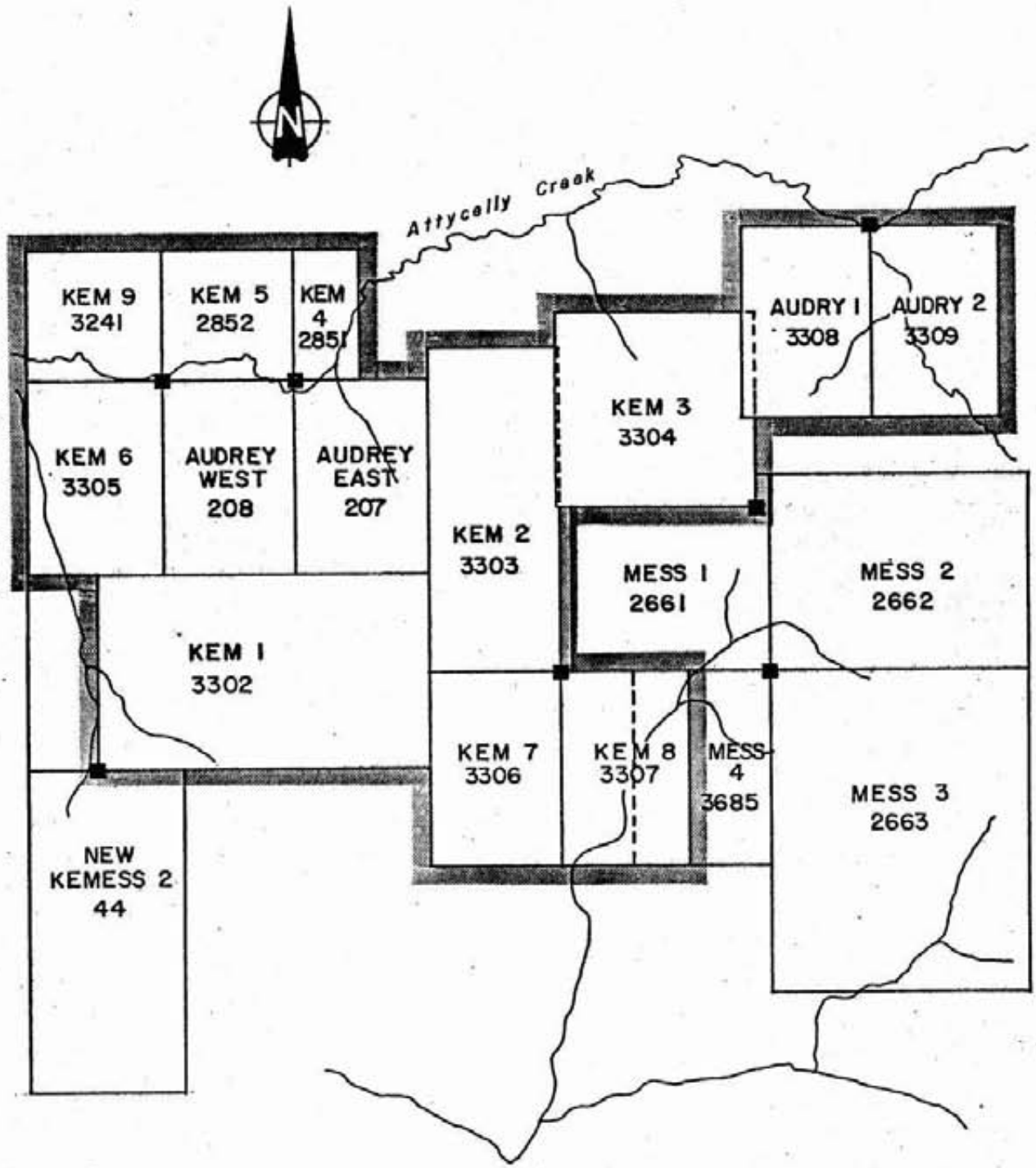


Figure 3

Texasgulf Inc.		
KEM - AUDREY CLAIMS		
CLAIM SKETCH		
WORK BY	DRAWN BY	DATE
D.P.	E.R.	JANUARY 14, 1982
0 1km		
SCALE 1:50,000		

arc assemblage bounded to the east by the Omineca crystalline belt and to the west and southwest by the Sustut and Bowser basins. Five mappable rock groups are found within the region containing the Kem-Audrey claims. These are 1) the Asitka Group, 2) Takla Group, 3) Hazelton Group, 4) Omineca intrusives and 5) Toodoggone volcanics, (Carter, 1972; Gabrielse, et.al., 1977).

Permian limestone of the Asitka Group is important for some local skarn type silver-lead-zinc mineralization which occurs adjacent to contacts with Omineca intrusives. Lower Jurassic Omineca intrusions and adjacent volcanics are also hosts for porphyry copper-molybdenum mineralization at the nearby Kemess property (Cann and Godwin, 1980). Volcanic rocks of the Upper Triassic Takla Group and the Toodoggone volcanics are important hosts for gold-silver bearing quartz vein deposits such as S.E.R.E.M.'s Lawyers deposit and at DuPont's Baker Mine. Gold-silver bearing quartz veins of the currently producing Baker Mine are hosted by Takla rocks. Veins and silicified breccia at the Lawyers properties are hosted by Toodoggone rocks and are currently being tested by underground sampling. These two deposits, with numerous other showings, define a mineralized northwest trend along which the Kem-Audrey property is located, some 30 km to the southeast. Takla Group volcanic rocks are host for the mineralized quartz veins exposed on the Kem-Audrey property; these rocks are uncomformably overlain by the Toodoggone volcanics.

Property Geology

The geology of the Kem-Audrey property was originally mapped in 1980 for Inca Resources Inc. at a scale of 1:10,000. Detailed

prospecting in 1981 following geochemical and geophysical surveys of the previous year outlined a broad area of interest in the southwest portion of the property. Further 1:10,000 mapping was performed in this area during the summer of 1981.

The property contains Takla and Toodoggone volcanic rocks and Omineca intrusions. Toodoggone volcanics are found in the central, eastern and southern portions of the property and are bounded to the west by Takla Group rocks (Figure 4). Omineca intrusive rocks crop out on the west and eastern margins of the property. Significant mineralization is found in quartz veins cutting Takla Group rocks to the West; Toodoggone rocks are not exposed in this area.

Takla group (Units 1-3)

Takla Group rocks outcrop along a northwesterly trending zone (Figure 5). The Takla rocks consist predominantly of basalt and augite porphyry basalt (unit 1); pillows are noted locally. Basaltic crystal tuff, bedded ash tuff (unit 2) and lesser andesitic and dacitic crystal and lapilli tuff (unit 3) are also observed.

Grey to grey-green, rubbly to blocky weathered basaltic flows are finely crystalline and often contain up to 30% subhedral to euhedral chloritized augite phenocrysts ($\leq$0.5 cm) and 0-10% plagioclase laths (2 mm). Zones of augite porphyry basalt area also found as 1 to 2 metre interbeds within grey-green, flaggy weathered, well bedded ash tuffs. Vague bedding within these basaltic interbeds suggest a tuffaceous origin. The bedded ash tuffs are confined to the western slopes within the KEM 6 claim. Rubbly, grey-weathered andesite crystal tuff and lapilli tuff are found as a lens shaped zone within the basalt near the headwall of the cirque in the Audrey West claim.

These rocks consist of 20-30% subhedral white to grey plagioclase crystals with minor biotite within a fine-grained chloritic matrix. Medium to light grey-green dacite crystal tuffs consist of 2-5% quartz eyes to 2 mm and 20-30% pink plagioclase crystals to 3 mm within a fine-grained matrix.

The southeastern contact of the Takla Group rocks with the Toodoggone volcanics is not exposed. To the southwest, Takla strata were intruded by a monzonite body which contains numerous small roof pendants of Takla basalt.

North of the monzonite intrusive a change in weathering style occurs in the Takla rocks. The volcanics within 200 m of the contact (unit 1a) are generally massive, weakly hornfelsed and are a relatively poor host for quartz veining. Rocks further north are highly fractured, rubbly weathered, and are locally silicified and cut by quartz veins.

Units at the eastern and southern edge of the map-area were previously mapped as Takla Group andesite and dacite crystal and lapilli tuffs, flow breccias and volcaniclastic sediments. These rocks have been re-interpreted as Toodoggone volcanics. This interpretation is based on the abundance of andesites and dacites which characterize Toodoggone rocks and by the absence of basaltic rocks which dominate the Takla Group (Richards, 1975).

Omineca Intrusives (Unit 4 and 5)

Medium crystalline grey monzonite (unit 4) crops out in the southwest portion of the property. Contacts are not well exposed but in the south the intrusion is truncated by a northwest trending fault. A hornblende-biotite diorite porphyry plug (unit 5) has been previously mapped in easterly regions of the property. (Smitheringale, 1980) These intrusions are relatively unaltered and apparently do not host

any significant mineralization.

Toodoggone Volcanics (Units 6-10)

Toodoggone volcanics represent a complex, highly variable pile of dominantly subaerial andesites and dacites with local sedimentary equivalents (Table 1 and Figure 4). The complexity of these rocks is a result of rapid lateral and vertical changes in facies, lithology and texture.

The most extensive Toodoggone rock type east of Takla Group rocks is rubbly, grey weathered, dacitic crystal tuff and crystal-lapilli tuff (unit 9). These dacites are characterized by 20-30% pink to white subhedral plagioclase crystals to 2 mm, 5% quartz eyes to 3 mm and 1-2% pinkish chloritized biotite to 2 mm within a fine-grained grey to greyish-green matrix. Lapilli size dacitic rock fragments are present up to 30%.

Andesitic (unit 6) and dacitic crystal tuffs are found southwest of Takla rocks (Figure 4). Rubbly, grey weathered andesitic crystal tuffs contain 10-35% pink to white subhedral plagioclase crystals to 3mm and 0-10% prismatic hornblende crystals to 3 mm within a grey to greenish grey fine-grained tuffaceous matrix.

Sedimentary equivalents of Toodoggone volcanics (unit 8) have a restricted distribution within the north central portion of the property. They generally consist of well-bedded, variable conglomerates, sandstones and siltstones.

Two minor units described by Smitheringale in 1980 were not

TABLE 1

TABLE OF FORMATION

Series	Formation	Map-Unit	Lithology
Jurassic	Toodoggone volcanics		
		10	Dark grey to greenish grey, fine-grained, plagioclase porphyritic basalt.
			10 intrudes 9a and intrudes or is interbedded with 8
		9	Dacite tuff, commonly containing scattered to abundant fragments lithologically similar to the matrix. Locally fragments are poymictic.
		9c	dominantly brownish grey; some reddish to purplish grey, some grey
		9b	dominantly pale purplish grey; pink plagioclase clasts are common
		9a	dominantly grey and rubbly weathering; some reddish grey
			8a, b, c, and d appear to be straigraphically equivalent to part of 9
		8	Purple and grey conglomerate, sandstone and siltstone; well bedded in places.
		8d	grey, medium-bedded volcaniclastic greywacke and sandstone. near the top is a 2m thick bed of thin-bedded, purple, silty sandstone.
		8c	grey, massive tuff; possibly equivalent to unit 9a
		8b	greyish tan, volcaniclastic greywacke containing pink plagioclase clasts; non bedded to indistinctly bedded.

Series	Formation	Map-Unit	Lithology	
		8a	red and grey, thick-bedded boulder conglomerate and coarse-grained sandstone; in places boulders greater than 1m diameter	
			Vertically and laterally gradational and locally interbedded	
		7	Breccia matrix grey to greenish grey and reddish grey; fragments commonly polymictic.	
		6	Grey and rubbly weathered andesite crystal tuff and flows. Characterized by white to pink plagioclase and ± hornblende.	
Lower Jurassic	Omineca intrusions	5	Diorite and Quartz Diorite	
		4	Monzonite	Assumed Unconformity
			Intrusive Contact	
Upper Triassic	Takla Group	3	Green and grey, dacite and andesite crystal and lapilli tuff, some flows. Characterized by white to pink plagioclase with minor biotite.	
		2	Grey green bedded ash tuff and augite crystal tuff (volcaniclastic sediment) derived from basalt or andesite.	
		1a	Hornfels - Massive, brittle, reddish grey to grey weathered.	
		1	Rubbly weathered, dark green and grey basalt, augite porphyritic in many places; pillowed in places; local pillow breccia. Some purplish grey basalt and dark green andesite breccia.	

(Smitheringale, 1980)

observed in 1981. Unit 7 consists of greenish grey to reddish grey polymictic breccia. Unit 10 is dark grey to greenish grey basalt porphyry.

Structure

Two distinct fracture sets are recognized within the area of interest. They are north to northwest trending, southwesterly dipping fractures and east-west trending, southward dipping fractures. These fractures may represent tensional features related to similar trending normal faults mapped in the area. Both fracture sets are often represented by quartz veins, which are generally podiform or lensoid in character and may host base and precious metal mineralization. The veins themselves are locally displaced by as much as 30 m by fault sets oriented normal to them. Shearing and slickensides often are associated with these faults.

Takla Group volcanics in the main area of interest generally strike northeast to northwest, and dip steeply to the east. This is inferred from bedding traces and pillow attitudes in the area. Bedding and parallel schistosity indicate that the Toodoggone sequence dips moderately to the north, and a northerly striking fracture cleavage suggests that the strata are locally gently folded about north trending axes (Smitheringale, 1980).

Alteration

Two main types of alteration zones occur in the area of interest (Figure 5). These are: 1) hematite-chlorite-pyrite-magnetite alteration zones and 2) quartz-pyrite $\pm$ chalcopyrite alteration zones.

The former occur as earthy rust zones (gossans) northwest of the monzonite intrusion in the western portion of the property. These zones are characterized by intense hematite-chlorite alteration which has totally overprinted the original mineralogy and fabric of the host rock. Disseminated pyrite to 20% and pyrite blebs to 3 cm are common. Irregular shaped magnetite blebs to 1 cm are less common.

The quartz-pyrite ± chalcopyrite alteration zones are numerous, are of relatively small dimensions and are generally associated with intense silicification and quartz veining. Silicified zones are highly variable but are usually characterized by a grey to grey-green finely crystalline mixture of quartz, chlorite and calcite. Quartz commonly occurs as medium to coarse druses which locally may be amethystine. Calcite is present as fine to coarsely crystalline masses representing later infilling of drusy vugs and fractures or may be intermixed with the quartz and chlorite. Pyrite (≤30%), chalcopyrite (≤1%), gypsum and epidote may also be present. When oxidized, pyrite and chalcopyrite give rise to spectacular gossans characterized by hematite, limonite, malachite and azurite. Cross-cutting, random clear drusy quartz ± malachite veins to 5 cm wide are common within and around the perimeter of these zones. Local minor quartz-calcite-gypsum veinlets are also present.

Mineralization

Mineralization on the Kem-Audrey property occurs as three varieties. These are: 1)quartz-sulfide veins, 2)quartz-sulfide gossan zones and 3)quartz-sulfide-oxide veins.

1) Quartz-sulfide veins

Massive to medium crystalline white to grey quartz veins (≤3 m wide) with associated galena, sphalerite, chalcopyrite and pyrite occur throughout the KEM 1, 2 and Audrey East and West claims. These west to north-west trending veins, including the original "main showing" mentioned in previous reports (Smitheringale, 1980) contain interesting but low silver values and negligible gold. Selected vein grab samples taken in 1981 yielded the following values for silver, gold and base metals[1]. (see Figure 6 for locations).

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
53885	3,400	(2.65%)	6,900	>50	101.5	35	-
56223	4,000	3,200	(3.17%)	42.0	-	20	-
56224	5,400	(1.57%)	15,000	>50.0	62.7	25	-
61300	96	183	50	>50.0	122.4	240	-

Silicification of the surrounding wallrock associated with quartz veining is generally minor; a pyritic zone to 1 cm wide is sometimes observed along the vein margins. Samples from silicified wallrock contained insignificant silver and gold (≤ 0.1 g/tonne Au and ≤ 1.0 g/tonne Ag).

2) Quartz-sulfide gossan zones

Numerous silicified zones located in the western portion of the map-area are generally associated with disseminated pyrite and

1. In this and all following tabular summaries, values are derived from geochemical results (fire assay extraction for gold, atomic absorption analyses for all metals). Values quoted in percent (base metals) or g/tonne (precious metals) represent assays done to check high geochemical values.

intense quartz veining and often contain traces of chalcopyrite. These zones are relatively small (≤5 m x 5 m) and show interesting silver and gold values (see Figure 6 for locations).

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
56203	1,035	70	116	>50.0	96.0	355	-
56266	100	320	343	36.0	-	470	-
56340	(9.9%)	460	2,700	>50.0	240.0	980	-
56343	70	28	184	0.4	-	1,210	-
61280	390	134	85	10.0	-	460	-
61290	20	231	400	2.8	-	1,950	-

These values are representative of only a small percentage of silicified gossans. Most gossan zones gave insignificant silver and gold values.

3) Quartz-sulfide-oxide vein

One northwest trending quartz-sulfide-oxide vein dipping moderately (50° - 70°) to the southwest was mapped on the Kem 6 claim (Figure 4). The vein can be traced for about 200 m and is highly variable in thickness and mineralogy. Interest is focussed on the northwest end of the vein where it is at its maximum observed thickness of approximately 1.5 m. This zone can be traced upslope for 25 m along strike, exposing approximately 15 m of vein depth. The zone was found to generally thin and show a distinct variation in mineralogy upwards.

At the lowest point in elevation the vein is about 1.5 m wide and consists of pitted white to greyish quartz intermixed with up to 70% specular hematite. Disseminated pyrite to 30% and magnetite blebs also occur throughout the quartz with or without the hematite. The vein is in contact with heavily fractured and chloritized basalt which contains 1 - 2% calcite stringers and traces of malachite. This quartz-hematite-pyrite zone is exposed for about 15 m along strike and

for about 7 m vertically. Grab samples analyzed from this zone are as follows (see Figure 4).

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
56251	520	156	85	37.0	-	340	-
56252	200	240	40	>50.0	846.9	>10,000	28.46
70567	520	124	1,005	1.4	-	-	0.07
70568	400	77	600	23.0	-	-	0.21
70569	230	240	102	>50.0	632.6	-	24.86
70575	154	81	30	>50.0	316.5	-	10.11

Samples 56251, 56252, 70569 and 70575 contained significant amounts of specularite. Sample 70567 is a representative wallrock sample and 70568 represents a quartz-pyrite-magnetite portion of the vein without the specularite.

Directly on strike and above the quartz-hematite-pyrite-magnetite zone lies a 20 cm wide zone of hematite-magnetite-quartz-chalcopyrite-pyrite. The apparent vertical extent of this zone is less than 1 metre. Grab samples contained 30% magnetite, 20% chalcopyrite, 10% quartz and 10% pyrite; analyses follow:

Sample No.	Cu %	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
70570	4.90%	181	186	>50.0	275.3	-	10.97
70571	2.52%	430	146	>50.0	509.1	-	12.51

Further southeast along strike and above from this zone the vein rapidly pinches out and is represented by highly fractured, moderately silicified basaltic rock. The fractures have been locally infilled with quartz, specularite, pyrite and chalcopyrite. A coarsely crystalline 5 cm wide calcite vein was also noted in this zone. Rock geochemistry results from this zone are less impressive:

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
70572	160	32	625	5.7	-	-	0.15
70573	96	154	285	42.0	-	-	0.26
70574	80	68	190	5.2	-	-	0.21

Samples 70572 and 70574 represent the altered basalt; 70573 is a representative sample of the calcite vein.

The vein can be traced over a steep 5 m high cliff and continues upslope to the southeast for about 175 m. Samples from along this portion of the vein contained quartz with minor pyrite, specularite and chalcopyrite. Analyses of grab samples are as follows:

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag g/tonne	Au ppb	Au g/tonne
56255	86	96	318	6.0	-	95	-
56256	27	240	156	>50.0	108.0	1,000	-
56257	200	230	960	14.0	-	55	-
56258	87	280	2,400	7.9	-	45	-
56259	1,440	183	800	9.4	-	10	-
56260	560	249	500	9.3	-	90	-
56261	45	89	210	5.2	-	260	-

Sample 56256 was taken from a fractured zone on the cliff face and consists of altered basalt containing quartz, pyrite and specular hematite. All other samples were from the actual quartz vein; 56257 and 56258 contained minor amounts of specularite.

GEOCHEMISTRY

An extensive geochemical soil survey carried out in 1980 by Inca Resources covered the entire property except for the far southwest corner (Smitheringale, 1980). These soils were analyzed for Cu, Pb, Zn, Ag, Au and As. Gold anomalies up to 700 ppm with associated weak Ag and Cu anomalies were located in the headwall of the cirque in

the Audrey West and KEM 1 claims which suggested gold-silver potential for unsampled areas to the south and west. A 2200 ppb Au anomaly on the Audrey West claim and anomalies of 3400 ppb and 1750 ppb Au located 50 m apart on the boundary of the KEM 9 and KEM 5 claims extended the area of interest to the north. Gold did not show an association with arsenic values. Lead and zinc anomalies were found to be associated with the area previously mapped as the 'main showing' (Smitheringale, 1980).

A total of 170 rock samples were collected in 1981, and shipped to Bondar-Clegg and Co. Ltd. of North Vancouver for analysis; locations are shown in Figure 6, and all analytical results are listed in Appendix A. Samples were crushed, pulverized and analysed for Cu, Pb, Zn Ag and Au. 155 samples were also analysed for Mo and ten samples were analysed for Ba. A semi-quantitative 35 element analysis was also performed on two samples. Extraction and analytical techniques are summarized below:

Elements	Extraction	Method
Cu, Pb, Zn, Ag, Mo, Ba	HNO_3-HCl hot extraction	Atomic absorption
Au	Aqua regia	Fire assay AA

Quartz veins and silicified zones in the area of interest contained inconsistent Au, Ag and Cu values which readily explain soil anomalies found in the headwall of the cirque. One quartz vein was found that contained coincident high gold and silver values; the highest being 846.0 g/tonne Ag and 28.46 g/tonne Au; associated with specular hematite as discussed above.

Molybdenum is generally present in rock samples in amounts less than 20 ppm. Barium is present in amounts less than 0.2% and does not show a good correlation with gold or silver values. The 35 element semi-quantitative analyses verified values for Cu, Pb, An and Ag outlined by normal geochemical techniques. The other 31 elements were not present in anomalous amounts (Appendix C).

The sources of the 2200 ppb, 3500 ppb and 1750 ppb soil anomalies remain unknown and the quality of the soil sample remain in doubt. Many "soil" sample locations were found to be directly over talus where no soil was observed.

In summary, prospecting and rock geochemical surveys were found to be much more reliable than soil sampling as a means of delineating gold and silver prospects. The existence of a soil profile with a well developed B horizon is doubtful over steep, recently glaciated terrain. Interpretations based on soil samples may therefore be inaccurate.

DISCUSSION

The overall results from this recent programme are moderately encouraging and focus interest on a Au-Ag bearing quartz-specularite vein located within the KEM 6 claim. A programme of mapping, trenching, geophysical (VLF) surveys, and drilling is necessary to evaluate the extent of this zone and the potential of adjacent areas.

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APPENDIX A

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

D.W. Piroshco - Geologist

Darwin Piroshco obtained his B.Sc. degree in Geology from the University of Calgary in 1981. He joined Texasgulf Canada Ltd., (now Kidd Creek Mines Ltd.) as a temporary employee in Vancouver, in May 1981, immediately after graduation.

APPENDIX B

Statement of Expenditures

STATEMENT OF EXPENDITURES

KEM-AUDREY-AUDRY GROUP

SALARIES AND FRINGE BENEFITS - TEXASGULF INC.

G.R. Peatfield, P.Eng. July 11; 1/2 day @ $220	110.00	
P.R. DeLancey, P.Eng. June 3: 1 day @ $200	200.00	
I.G. Sutherland, Geologist July 11; 1 day @ $140	140.00	
D.W. Piroshco, Geologist July 14-Sept 15; 16 days @ $75	1,200.00	
F. Renaudat, Assistant June 3, July 21; 2 days @ $65	130.00	
A. Costigan, Assistant July 18; 1 day @ $60	60.00	
J. Gosselin, Assistant July 22, Aug 5; 2 days @ $60	120.00	
J.S. Bending, Assistant July 14-28; 3 days @ $55	165.00	
G. Murray, Assistant July 15, Aug 3; 2 days @ $55	110.00	
L. Haering, Assistant July 16, 30; 2 days @ $50	100.00	
M. Cathro, Assistant Aug 8; 1 day @ $50	50.00	
J. Leigh, Assistant July 23, 27; 2 days @ $45	90.00	
	2,475.00	2,475.00

ROOM AND BOARD

33 1/2 man-days @ $70	2,345.00

HELICOPTER SUPPORT

Texasgulf Bell 206B, 20 hrs @ $400	8,000.00

ANALYTICAL COSTS

1 assay @ $11.00 (Au, Ag)	11.00
20 assays @ $ 8.00 (Au)	160.00
11 assays @ $ 8.00 (Ag)	88.00
1 assay @ $ 6.50 (Zn)	6.50
4 assays @ $ 6.00 (Pb)	24.00
3 assays @ $ 6.00 (Cu)	18.00

/Cont'd. . .

STATEMENT OF EXPENDITURES - Cont'd.

ANALYTICAL COSTS	C/Fwd	C/Fwd.
	307.50	12,820.00
10 rock geochem @ $ 6.50	65.00	
5 rock geochem @ $11.75	58.75	
145 rock geochem @ $12.50	1,812.50	
10 rock geochem @ $16.25	162.50	
2 rock geochem @ $25.00	50.00	
	2,456.25	2,456.25
MISCELLANEOUS		
Share of shipping, handling, etc.	350.00	
pro-rated share of travel	200.00	
	550.00	550.00
REPORT PREPARATION		
D.W. Piroshco 5 days @ $75	375.00	
I.G. Sutherland 1 day @ $140	140.00	
Drafting (in house)	300.00	
Secretarial, reproductions, etc.	250.00	
	1,065.00	1,065.00
		$16,891.25

APPENDIX C

List of Geochemical and Assay Date

APPENDIX C:

Note: All values shown on maps for assayed samples are quoted in gm/tonne, and have been calculated using 1 oz troy/short ton = 34.386 gm/tonne.

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Au PPB
61280		390	134	85	3	10.0	460
61281		22	3	80	3	1.0	15
61282		6	3	59	4	0.3	ND
61283		10	26	95	2	3.2	30
61284		74	550	226	6	3.5	265
61285		32	17	181	7	1.2	15
61286		96	122	450	12	3.9	70
61287		90	2	38	1	0.5	5
61288		120	11	225	3	1.6	30
61289		26	77	640	6	0.7	20
61290		20	231	400	37	2.8	1950
61291		6	35	152	4	0.3	ND
61292		17	4	42	3	6.2	130
61293		79	22	29	7	0.4	ND
61294		119	ND	27	ND	0.3	10
61295		12	7	68	3	0.2	ND
61296		7	ND	6	5	0.2	ND
61297		94	8	144	2	0.8	ND
61298		13	33	70	3	18.0	80
61299		22	357	141	3	13.0	30
61300		96	183	50	4	> 50.0	240
18426	ROCK	19	22	105	3	2.8	25
18427		15	133	35	2	2.6	25
18428		22	37	20	2	0.6	ND
18429		12	328	45	4	6.1	35
18430		18	10	126	2	0.5	ND
18431		9	132	22	3	3.3	20
18432		29	128	62	3	1.0	10
18433		55	29	61	2	3.3	40
18434		20	7	50	2	2.1	20
18435		180	267	860	4	5.6	50
18436		14	2	59	3	0.2	ND
18437		50	17	61	2	4.8	60
18438		14	21	92	2	1.1	5
18439		210	2	49	1	1.3	ND
18440		250	825	440	4	6.4	105
18441		790	67	51	ND	1.0	70
18442		22	11	1460	2	0.5	120
18443		1565	ND	80	9	2.0	40
18444		34	ND	72	34	0.2	10
61239		16	150	640		1.3	75
61240		560	69	89		2.2	30
61241		189	45	68		0.6	20
61242		785	10	79		3.4	120
61243		845	2050	15500		14.0	40

SAMPLE NUMBER	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Au PPB	Ba PPM
56326	410	57	2600	6	3.8	ND	
56327	1140	88	4500	7	12.0	5	
56328	58	5	150	4	0.7	ND	80
56329	370	28	302	8	3.0	10	
56330	145	10	980	3	0.8	5	
56331	300	13	360	6	1.1	ND	
56332	119	18	680	2	0.3	5	80
56333	270	64	340	6	1.6	30	30
56334	350	28	760	2	1.4	ND	
56335	102	26	50	5	0.9	ND	
56336	124	2	17	3	0.3	ND	
56337	540	240	50	7	19.0	60	
56338	2800	124	87	5	25.0	50	
56339	3100	36	4300	6	9.8	55	
56340	>20000	460	2700	2	> 50.0	780	
56341	380	38	570	5	2.4	40	
56342	250	10	25	3	2.0	10	ND
56343	70	28	184	1	0.4	1210	490
56344	1130	34	485	4	4.5	15	
56345	2800	107	1055	2	14.0	30	
56346	40	8	44	5	3.2	55	
56347	260	6	94	ND	2.1	10	
56348	350	30	118	6	3.7	45	
56349	38	46	143	20	1.4	20	
56350	81	32	94	41	5.4	50	
56276	138	4	93	1	0.5	ND	700
56277	12	3	26	4	0.3	ND	
56278	34	66	175	11	3.0	30	
56279	19	2	48	4	0.3	ND	
56280	12	30	263	5	7.6	20	
56281	110	14	361	25	3.2	10	
56282	260	75	1135	10	7.7	30	
56283	12	175	400	6	3.6	10	310
56284	31	30	107	4	3.6	20	
56285	30	12	83	1	2.0	5	
56286	17	41	66	2	3.0	10	380
56287	10	42	191	1	0.7	5	
56288	12	20	87	4	1.8	10	
56289	10	25	37	3	1.1	55	
56290	85	2	170	1	0.2	ND	
56291	120	ND	99	ND	0.2	ND	
56292	5	ND	17	3	0.2	ND	
56293	93	17	166	2	0.6	ND	
56294	124	28	308	3	0.8	5	

SAMPLE NUMBER	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Au PPB	Bi PPM
56295	22	6	83	6	0.2	20	
56296	108	5	149	2	0.2	ND	
56297	3	ND	7	2	0.2	ND	
56298	3	11	4	4	0.2	ND	119
56299	4	7	4	ND	0.2	ND	187
56300	5	20	3	3	0.2	ND	
56201	4	16	11	4	0.4	ND	
56202	67	25	128	3	1.2	ND	
56203	1035	70	116	25	> 50.0	355	
56204	89	18	66	4	13.0	55	
56205	54	36	69	3	24.0	85	
56206	110	35	129	1	1.7	ND	
56207	144	2	67	2	1.4	ND	
56208	46	4	218	1	0.6	ND	
56209	980	7	233	3	1.2	5	
56210	10410	60	45	2	24.0	30	
56211	5990	14	143	4	8.5	10	
56212	8950	71	39	4	18.0	55	
56213	325	4	173	4	0.7	ND	
56214	595	15	141	5	2.2	25	
56215	164	65	215	11	3.2	15	
56216	36	5	136	1	0.2	ND	
56217	130	19	1015	5	1.0	25	
56218	86	78	450	4	1.6	40	
56219	11	44	62	7	2.5	30	
56220	112	750	80	11	11.0	60	
56221	70	14	20	4	0.2	95	
56222	18	23	70	5	0.6	105	
56223	4000	3200	>20000	26	42.0	20	
56224	5400	>10000	15000	4	> 50.0	25	
56225	2500	133	320	5	50.0	125	
56251	520	156	85	4	37.0	340	
56252	200	240	40	6	> 50.0	>10000	
56253	1240	16	75	3	13.0	155	
56254	860	9	75	5	6.3	40	
56255	86	96	318	7	6.0	95	
56256	27	240	156	5	> 50.0	1000	
56257	200	230	960	7	14.0	55	
56258	87	280	2400	6	7.9	45	

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Au PPB
56259		1440	183	800	4	9.4	10
56260		560	249	500	10	9.3	90
56261		45	89	210	5	5.2	260
56262		2000	1785	5300	5	18.0	20
56263		23	360	72	8	8.2	35
56264		65	11	35	4	0.8	ND
56265		110	70	122	6	3.7	15
56266		100	320	343	6	36.0	470
56267		44	136	520	6	1.4	20
56268		47	122	178	5	0.4	10
56269		2000	25	105	4	13.0	110
56270		260	21	30	5	14.0	115
56271		500	10	176	5	2.3	15
56272		105	240	98	2	1.0	10
56273		10	ND	200	3	0.2	ND
56274		139	2	110	3	1.3	15
56275		40	5	106	3	0.4	
53876	ROCKS	13	6	400	3	0.4	5
53877		22	45	176	5	0.2	50
53878		62	62	150	5	2.0	150
53879		30	37	204	12	1.0	10
53880		113	680	500	4	0.4	5
53881		6700	3300	4400	13	14.0	75
53882		30	16	60	5	0.4	20
53883		1360	3800	980	10	16.0	35
53884		880	220	670	4	6.4	20
53885		3400	>10000	6900	6	> 50.0	35
53886		1730	1120	1280	5	8.1	ND
53887		780	>10000	5400	9	16.0	30
53888		380	>10000	3200	6	8.0	25
53889		10	130	48	4	0.2	5
53890		6	95	10	8	0.2	ND

	Cu PPM	Pb PPM	Zn PPM	Ag PPM
70567	520	124	1005	1.4
70568	400	77	600	23.0
70569	230	240	102	> 50.0
70570	>20000	181	186	> 50.0
70571	>20000	430	146	> 50.0
70572	140	32	625	5.7
70573	96	154	285	42.0
70574	80	68	190	5.2
70575	154	81	30	> 50.0
70576	190	45	57	19.0

...Exeguil Inc.

PAGE No. 1

701 - 1281 West Georgia Street
Vancouver, B. C. V6E 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

REPORT NO. A21-1238

DATE: August 31, 1981

Samples submitted: August 25, 1981
Results completed: August 31, 1981

PROJECT: 21

I hereby certify that the following are the results of assays made by us upon the herein described .....pulp.....samp

MARKED	GOLD		SILVER									
SEE OUR GEOCHEM REPORT 121-2359	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
56203			2.80									

cc Mr. Ian Sutherland

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

Gulf Inc.

1

701 - 1281 West Georgia Street
Vancouver, B. C. V6R 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

REPORT NO. A21 - 1240

DATE: August 31, 1981

Samples submitted: August 23, 1981
Results completed: August 31, 1981

PROJECT: #21

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER		Cu							
OUR GOLCHEM REPORT 121-2252	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
56340			7.00		9.90							

cc Mr. Ian Sutherland

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

To: Texasgulf, Inc.

PAGE No. 1

REPORT NO. A21 - 1928

DATE: November 27, 1981

701 - 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

Samples submitted: November 14, 1981
Results completed: November 27, 1981

PROJECT: 21

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER								
SEE OUR GEOCHEM REPORT # 121 - 2132	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
61300			3.57								

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

To: Texasgulf Inc.

PAGE No. 1

REPORT NO. A21 - 1986

DATE: December 16, 1981

701 - 1281 West Georgia Street
VANCOUVER, B.C.
V6E 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

Samples submitted: November 26, 1981
Results completed: December 16, 1981

PROJECT: 21

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER		Pb	Zn						
OUR GEOCHEM REPORT 121-2451	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
53885			2.96		2.65	-						
53887			-		1.60	-						
53888			-		1.22	-						
56223			-		-	3.17						
56224			1.83		1.57	-						
56256			3.15		-	-						

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

To: Texasgulf, Inc.

PAGE No. 1

REPORT NO. A21 - 1371

DATE: October 7, 1981

BONDAR-CLEGG & COMPANY LTD.

701 - 1281 West Georgia Street
Vancouver, B.C.
V6E 3J7

CERTIFICATE OF ASSAY

CORRECTED REPORT

Samples submitted: September 6, 1981
Results completed: October 7, 1981

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER								
see our geochem report 121 - 2451	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
36252	0.83		24.70								

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

To: Texasgulf, Inc.

PAGE No. 1

701 - 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

REPORT NO. A21 - 1566

DATE: November 10, 1981

Samples submitted: October 5, 1981
Results completed: November 10, 1981

PROJECT: 21

I hereby certify that the following are the results of assays made by us upon the herein described rock samples.

MARKED	GOLD		SILVER								
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
70567 A	0.002										
70568	0.007										
70569	0.75										
70570	0.32										
70571	0.40										
70572	0.004										
70573	0.007										
70574	0.006										
70575	0.29										
71076	0.009										
70567 B	0.002										
70568	0.005										
70569	0.70										
70570	0.32										
70571	0.33										
70572	0.005										
70573	0.008										
70574	0.006										
70575	0.30										
71076	0.005										

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

To: Texasgulf, Inc.

PAGE No. 1

701 - 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

REPORT NO. A21 - 1044

DATE: November 14, 1981

Samples submitted: October 30, 1981
Results completed: November 14, 1981

PROJECT: 21

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER		Cu							
SEE OUR GEOCHEM REPORT # 121 - 3431	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
70569 A			18.45		-							
70570			8.03		4.90							
70571			14.85		2.52							
70575			9.23		-							

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

BONDAR-CLEGG & COMPANY LTD

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX: 04-352667

SEMI-QUANTITATIVE ANALYSIS

No: 21 - 2252

Sample No.: 56327 From: Texasgulf Inc.

Method: XRF and E-SPEC Date: September 11 19 8

No. of Elements: 35 Analyst:

10,113

TRACE ELEMENTS (%)	< .003	.003 - .01	.01 - .03	.03 - 0.1	0.1 - 0.3	0.3 - 1.0	1.0 - 3.0	3.0 - 10.0	> 10.0	REMARKS
Ag	X									
Cu				X						
Pb		X								
Zn					X					
Mo	X									
Fe						X				
W	X									
Ni	X									
Co	X									
Cr			X							
As		*								• < .01%
Sb	X									
Mn				X						
V		X								
Bi	X									
Sn	X									
Zr	X									
B	X									• > 0.2
Ba	X									
Be	X									• > 0.1
La	X									
Nb	X									
Sr	X									
Y	X									
Ce	X									
U	X									
Th	X									
MAJOR ELEMENTS (%)										
CaO							X			
MgO				X						
TiO_2				X						• > 2%
Na_2O			X							• > 7%
K_2O					*					• < 0.6
SiO_2									X	• < 2%
Al_2O_3				*						• < 0.2
P_2O_5					*					• < 0.4 • > 4.0

* Not measured less than or above noted detection limits

BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE 985-0681 TELEX 04-352667

SEMI-QUANTITATIVE ANALYSIS

No: 21 - 2252

Sample No.: 56340 From: Texasgulf Inc.

Method: XRF and E-SPEC Date: September 11 19 8

No. of Elements: 35 Analyst:

TRACE ELEMENTS (%)	< .003	.003 - .01	.01 - .03	.03 - 0.1	0.1 - 0.3	0.3 - 1.0	1.0 - 3.0	3.0 - 10.0	> 10.0	REMARKS
Ag			X							
Cu								X		
Pb				X						
Zn						X				
Mo	X									
Fe									X	
W	X									
Ni		X								
Co		X								
Cr		X								
As		*								• < .01%
Sb	X									
Mn					X					
V		X								
Bi	X									
Sn	X									
Zr	X									
B	X									• > 0.2%
Ba	X									
Be	X									• > 0.1%
La	X									
Nb	X									
Sr	X									
Y	X									
Ce	X									
U	X									
Th	X									
MAJOR ELEMENTS (%)										
CaO					X					
MgO					X					
TiO_2				X						• > 2%
Na_2O			X							• > 7%
K_2O					*					• < 0.6%
SiO_2									X	• < 2%
Al_2O_3				*						• < 0.2%
P_2O_5					*					• < 0.4% • > 4.0%

9113

* Not measured less than or above noted detection limits

APPENDIX D

Schedule of Claims, Due Dates, and Groupings

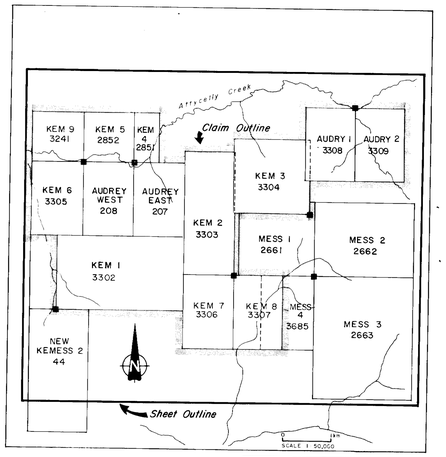
APPENDIX D

Claim Name	Record No.	Units	Expiry Date
Audrey East	207	6	Feb. 4, 1985
Audrey West	208	6	Feb. 4, 1985
Kem 4	2851	2	June 19, 1984
Kem 5	2852	4	June 19, 1984
KEM 9	3241	4	Oct. 1, 1984
KEM 1	3302	15	Aug. 7, 1985
KEM 2	3303	10	Aug. 7, 1984
KEM 3	3304	9	Aug. 7, 1990
KEM 6	3305	6	Aug. 7, 1984
KEM 7	3306	6	Aug. 7, 1984
KEM 8	3307	6	Aug. 7, 1984
Audry 1	3308	6	Aug. 7, 1984
Audry 2	3309	6	Aug. 7, 1984

The above claims make up the 'Kem-Audrey-Audry' Group, dated February 4, 1981.

NOTE: .

Work done in 1981 has not yet been filed for assessment credit.



Original Main Showing

Qz-Ham vein

Qz-Se

Se

Qz,Py,Ch Gsn

Gsn

Gsn

LEGEND

JURASSIC

Toodoggone volcanics

10 Dark grey to greenish grey, finely crystalline plagioclase porphyritic basalt

9 Dacite crystal tuff and lapilli tuff; local tuff breccia; locally fragments are polymictic
- 9c Brownish grey; some reddish to purplish grey, some grey
- 9b Pale purplish grey; pink plagioclase are common
- 9a Grey and rubbly weathered; some reddish grey

8 Purple and grey conglomerate, sandstone and siltstone; well bedded in places
- 8d Grey, medium bedded volcaniclastic greywacke and sandstone
- 8c Grey, massive tuff; possibly equivalent to Unit 9a
- 8b Greyish tan; volcaniclastic greywacke containing pink plagioclase clasts; non bedded to indistinctly bedded
- 8a Red and grey, thick bedded boulder conglomerate and coarse grained sandstone; in places boulders greater than 1m diameter

7 Breccia; matrix grey to greenish grey and reddish grey; fragments commonly polymictic

6 Grey and rubbly weathered andesite crystal tuff, some flows, characterized by white to pink plagioclase crystals and ± hornblende.

LOWER JURASSIC

Omineca Intrusives

5 Diorite and quartz diorite

4 Monzonite - grey, medium crystalline, equigranular

UPPER TRIASSIC

Takla Group

3 Green and grey dacite and andesite crystal and lapilli tuff, some flows. Characterized by white to pink plagioclase crystals and minor biotite

2 Grey-green bedded ash tuff and augite crystal tuff (volcaniclastic sediment)

1 Dark green and grey basalt and augite porphyry basalt; pillowed in places; local pillow breccia. Some purplish grey basalt and dark green andesite breccia
- 1a Hornfels; massive, brittle, reddish grey to grey weathered

SYMBOLS

- Outcrop
- Approx. outline of alteration zones
- Geological contact: observed; approximate; assumed
- Fault: observed; approximate, assumed
- Bedding
- Fractures
- Schistosity
- Fracture cleavage
- Qv Quartz vein
- Hem Specular hematite
- Se Sericite
- Qz Quartz
- Gsn Gossan
- Breccia
- Legal corner post

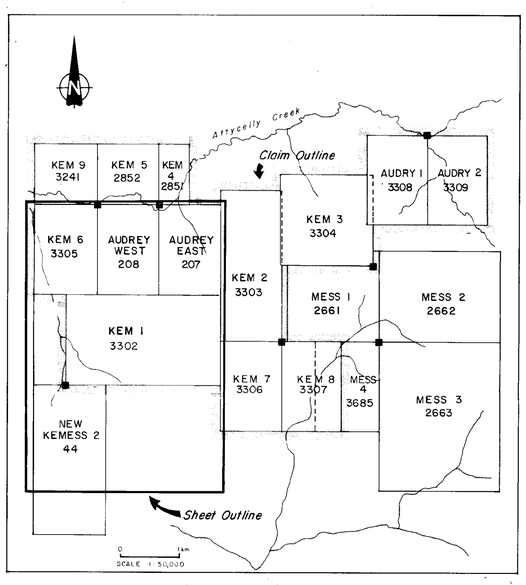
19113

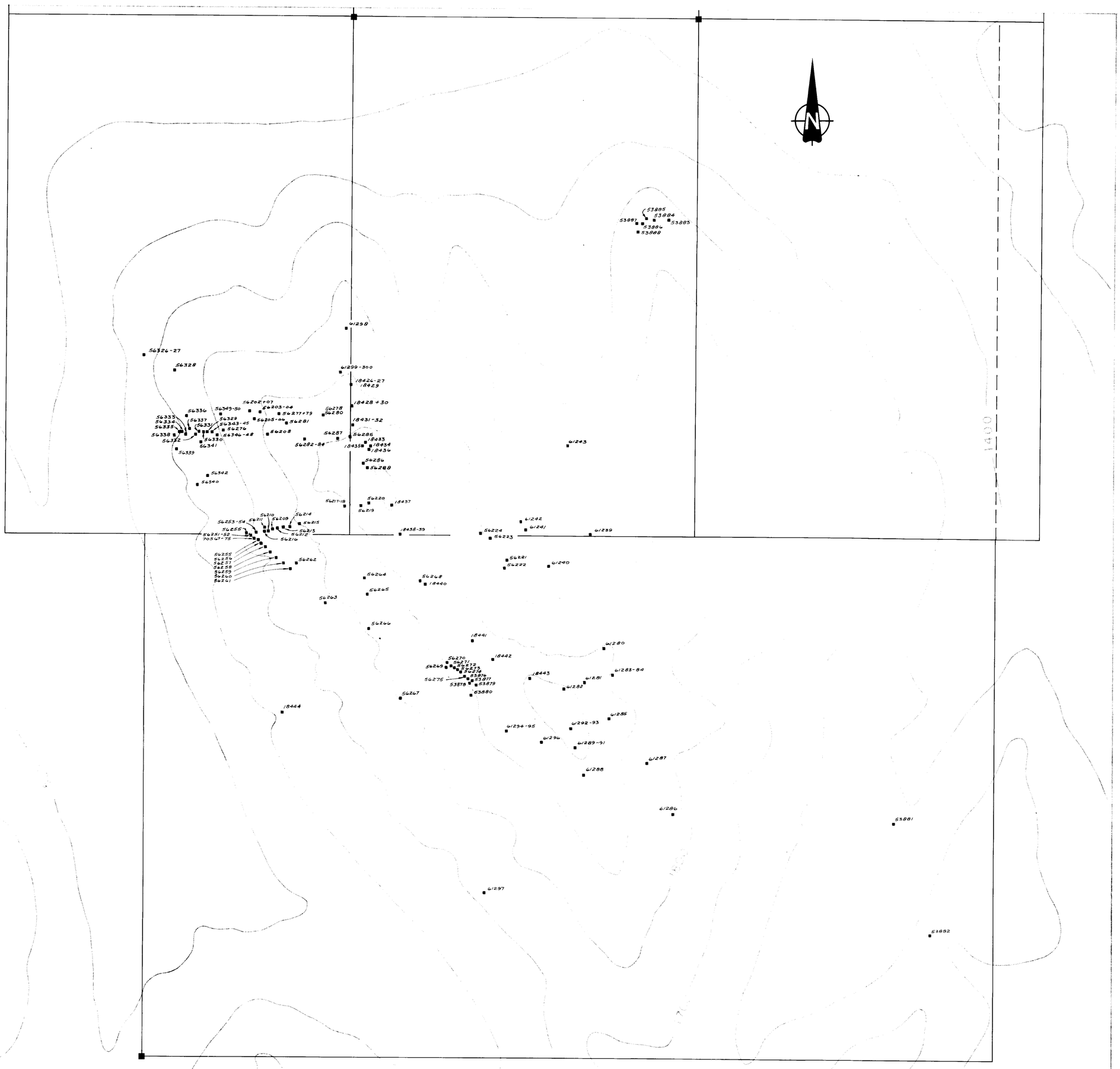
Figure 4

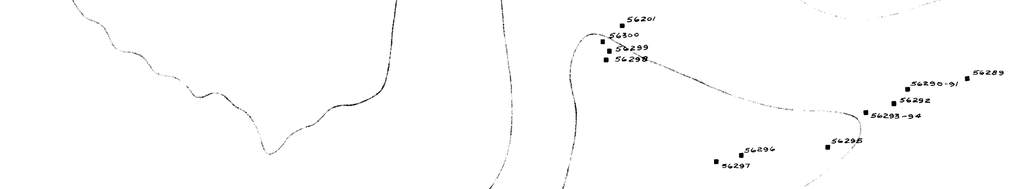
Texasgulf Inc.			
KEM - AUDREY CLAIMS			
GEOLOGY			
NTS 94E/2E			Proj 21
WORK BY	DRAWN BY	DATE	DRW.G. NO.
D.P.	E.R.	December 11, 1981	

200 100 0 200 400 600 FEET

SCALE 1:10,000 METRES







10,113

FIGURE 6

Texasgulf Inc.

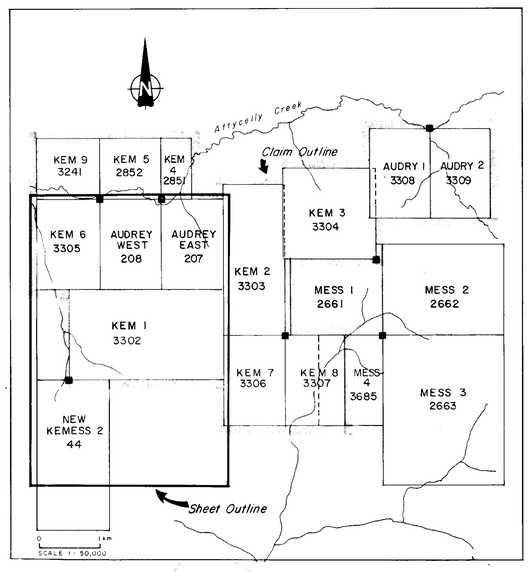
KEM - AUDREY CLAIMS

ROCK SAMPLE LOCATIONS
MAIN SHOWING AREA

NTS 94E/2E Proj. 21

WORK BY	DRAWN BY	DATE	DRW.G NO.
DP, I.G.S.	E.R.	JAN. 12, 1982	

100 50 0 100 200 300 400
SCALE IN METRES 1:5,000



MAIN SHOWING

	Cu (%)	Pb (%)	Zn (%)	Ag (g/tonne)	Au (g/tonne)
56251	.052	< .03	< .03	37.0	0.34
56252	< .03	"	< .03	846.86	28.46
70567	.05	"	0.1	1.4	.068
70568	.04	"	.06	23.0	.240
70569	< .03	"	< .03	632.58	25.71
70575	< .03	"	< .03	316.46	9.94
70570	4.90	"	< .03	275.32	10.97
70571	2.52	"	< .03	509.15	13.70

Qtz-Hem vein
Cp ≤ 20%
Mag 4-10%
Py ≤ 20%

Original Main Showing
Qv, Gn, Sp, Cp, Py

Scattered qtz veins

Intense fracturing Py 1%

LEGEND

JURASSIC

Toodoggone volcanics

9 Dacite crystal tuff
9a Grey and rubbly weathered
9b Pale purplish grey. Pink plagioclase crystals common

6 Grey, rubbly weathered, andesitic crystal tuff

LOWER JURASSIC

Omineca Intrusives

5 Reddish grey weathered feldspar-hornblende diorite porphyry

4 Grey, medium crystalline diorite

UPPER TRIASSIC

Takla Group

3 Green and grey dacite and andesite crystal and lapilli tuff

2 Grey green bedded ash tuff and augite crystal tuff (volcaniclastic sediment)

1 Dark green to grey basalt and augite porphyry basalt; pillowed in places; local pillow breccia. Some purplish grey basalt and dark green andesite breccia
1a Hornfels, massive, brittle, reddish grey to grey weathered

SYMBOLS

- Outcrop
- Approximate outline of alteration zones
- Geological contact, approximate, assumed
- Fault, approximate, assumed
- 50 Fractures
- Qv Quartz vein
- Breccia
- Legal corner post
- \+ Float

Qv	Quartz veining
Sil	Silification
Gsn	Gossan
Py	Pyrite
Gn	Galena
Cp	Chalcopyrite
Sp	Sphalerite
Hem	Hematite
Mag	Magnetite
Se	Sericite
Qtz	Quartz

10,113

Figure 5

Texasgulf Inc.

KEM - AUDREY CLAIMS

GEOLOGY

MAIN SHOWING AREA

NTS 94E/2E

WORK BY	DRAWN BY	DATE
D.P.	E.R.	JANUARY 12, 1982

100 50 0 100 200 300

SCALE IN METRES 1:5,000