ELDORADO NUCLEAR LIMITED

Assessment Report on

CRAG 1-60 (YA47643-YA47703)

63° 50' N. LAT. 140° 55' W. LONG.

090761

January, 1981

William Olsson
Project Geologist

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

$ 6,000.00

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

D. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

INDIAN and NORTHERN AFFAIRS

TRANSMITTAL FORM

M.R. File No. _____
S.M.R. File No. _____
Date Fwd. _____

FROM. Mining Recorder at Dawson, Y.T.

TO: Supervising Mining Recorder at Whitehorse, Y.T.

FOR ACTION ARE:

☐ NEW APPL'N for PLACER LEASE to PROSPECT: Name:

☐ RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: Lease No.

☐ AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name. Lease No.

☐ ASSIGNMENT of PLACER LEASE No. .....
From: To:

☐ GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT. 090761
Owner:

☐ DIAMOND DRILL LOGS:
Claims: Claim sheet no:

☒ QUARTZ ASSESSMENT REPORT.
Claims: CRAG 1-60 Claim sheet no. 115-N-9,10,15
Type of report: Geol., Geochem. & Geophys. Submitted by: Eldorado Nuclear
Cls. work performed on: $ Req. for ren. application $6,000.00

Signature

REPLY ACTION

Date Ret.

Signature

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
SEP 5 1980
MINING RECORDER
LAND AGENT
DAWSON, Y.T.
I.A. & N.D.

OFFICE DATE STAMP

I (Name) William Olsson Occupation Geologist

(Postal Address) 400 - 255 Albert St. Ottawa Ontario

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, wotk on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Crag 6, 8, 10, 17, and 19

situated at 63°50'N, 140°58'W Claim Sheet No. 115N/15

in the Dawson Mining District, to the value of at least $6000

dollars, since the 4th day of Sept 19 79,

to represent the following mineral claims under the authority of Grouping Certificate No. Q919
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 47666 - YA 47668 Crag 18-20 Sept 4/80 to Sept 4/81
YA 47677 - YA 47680 Crag 29-32 "
YA 47689 - YA 47692 Crag 41-44 "
YA 47700 - YA 47704 Crag 52-56 "

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.) Aug 21 - Aug 29 /80

The work consisted of ground geophysics, soil geochemistry, water geochemistry and a soil gas survey performed by a 2-man crew.
Report to follow

Sworn before me at Whitehorse

this 3 day of Sept 1980

Notary Public

William Olsson
Applicant.

Department of Indian Affairs and Northern Development

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I.A. & N.D.

OFFICE DATE STAMP

I (Name) William Olsen Occupation Geologist

(Postal Address) 400 - 255 Albert St., Ottawa, Ontario

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(Here list claims on which work was actually done by number and name)
CRAG 6, 8, 10, 17, and 19

situated at 63° 50'N, 140° 58'W Claim Sheet No. 115N/15

in the DAWSON Mining District, to the value of at least $6000

dollars, since the 4th day of Sept. 19 79,

to represent the following mineral claims under the authority of Grouping Certificate No. Q918
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 47661 - YA 47665 Crag 13-17 Sept 4/80 to Sept 4/81
YA 47673 - YA 47676 Crag 25-28 Sept 4/80 to Sept 4/81
YA 47685 - YA 47688 Crag 37-40 " "
YA 47692 - YA 47694 Crag 49-51 " "

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.) Aug 21 - Aug 29 1980

The work consisted of ground geophysics, soil geochemistry, water geochemistry and a soil gas survey performed by a 2 man crew. Report to follow

Sworn before me at Whitehorse

this 3 day of Sept. 1980

M. T. Krings
Notary Public

William Olsen
Applicant.

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

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I (Name) William Olsson Occupation Geologist

(Postal Address) 400 - 255 Albert St. Ottawa Ontario

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(Here list claims on which work was actually done by number and name)

Crag 6, 8, 10, 17, and 19

situated at 63°50'N, 140°58'W Claim Sheet No. 115N/15

in the Dawson Mining District, to the value of at least $6000

dollars, since the 4th day of Sept 19 79,

to represent the following mineral claims under the authority of Grouping Certificate No. Q917
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 47658 Crag 10 Sept 12/80 to Sept 12/81
YA 47669 Crag 21 "
YA 47670 Crag 22 "
YA 47672 Crag 24 "
YA 47681 - YA 47684 Crag 33-36 "
YA 47693 - YA 47696 Crag 45-48 "
YA 47705 - YA 47708 Crag 57-60 "

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SEP 5 1980
MINING RECORDER
LAND AGENT
DAWSON, Y.T.
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I (Name) William Olsson Occupation Geologist

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(Here list claims on which work was actually done by number and name)

Crag 6, 8, 10, 17 and 19

situated at 63° 50'N 140° 58' W Claim Sheet No. 115N/15

in the Dawson Mining District, to the value of at least $1000

dollars, since the 4th day of Sept. 19 79.

to represent the following mineral claims under the authority of Grouping Certificate No. Q916.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA47649 - YA47657	Crag 1-9	Sept 4/80 to Sept 4/81
YA47659	Crag 11	" "
YA47660	Crag 12	" "
YA47671	Crag 23	" "

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

August 21 - August 29, 1980
Work consisted of ground geophysics, soil geochemistry, water geochemistry and a soil gas survey performed by a 2 man crew.
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Notary Public

William Olsson
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I INTRODUCTION

1.1 General

1.1.1 Introduction

Work on the CRAG claim group is carried out under a Joint Venture Agreement between Eldorado Nuclear Limited (66 2/3%) and Canadian Occidental Minerals (33 1/3%). Eldorado is the operator of the venture.

1.1.2 Previous work

The area around the CRAG claims has been prospected and mined for placer gold at one time or another since the late 1800's. The recent resurgence in the price of gold has resulted in vigorous, renewed interest by individuals and companies in gold deposits and potential gold-bearing streams in the area.

The Geological Survey of Canada has mapped the terrane around the CRAG property several times. The most recent geological map is published at a scale of 1:250,000 and accompanies G.S.C. Paper 73-41 authored by D. Templeman-Kluit and entitled "Reconnaissance Geology of Aishihik Lake, Snag and Part of Stewart River Map Areas, West-Central Yukon."

Eldorado Nuclear, as part of a broad, regional program, examined stream anomalies located in the vicinity of Sixty Mile on the Sixty Mile River. This work involved hound dogging (a 113 cubic inch Mt. Sopris crystal mounted on the side of a Bell-47 helicopter and connected to a GAD-4 spectrometer and recorder), combined with geochemical sampling of stream silts and waters.

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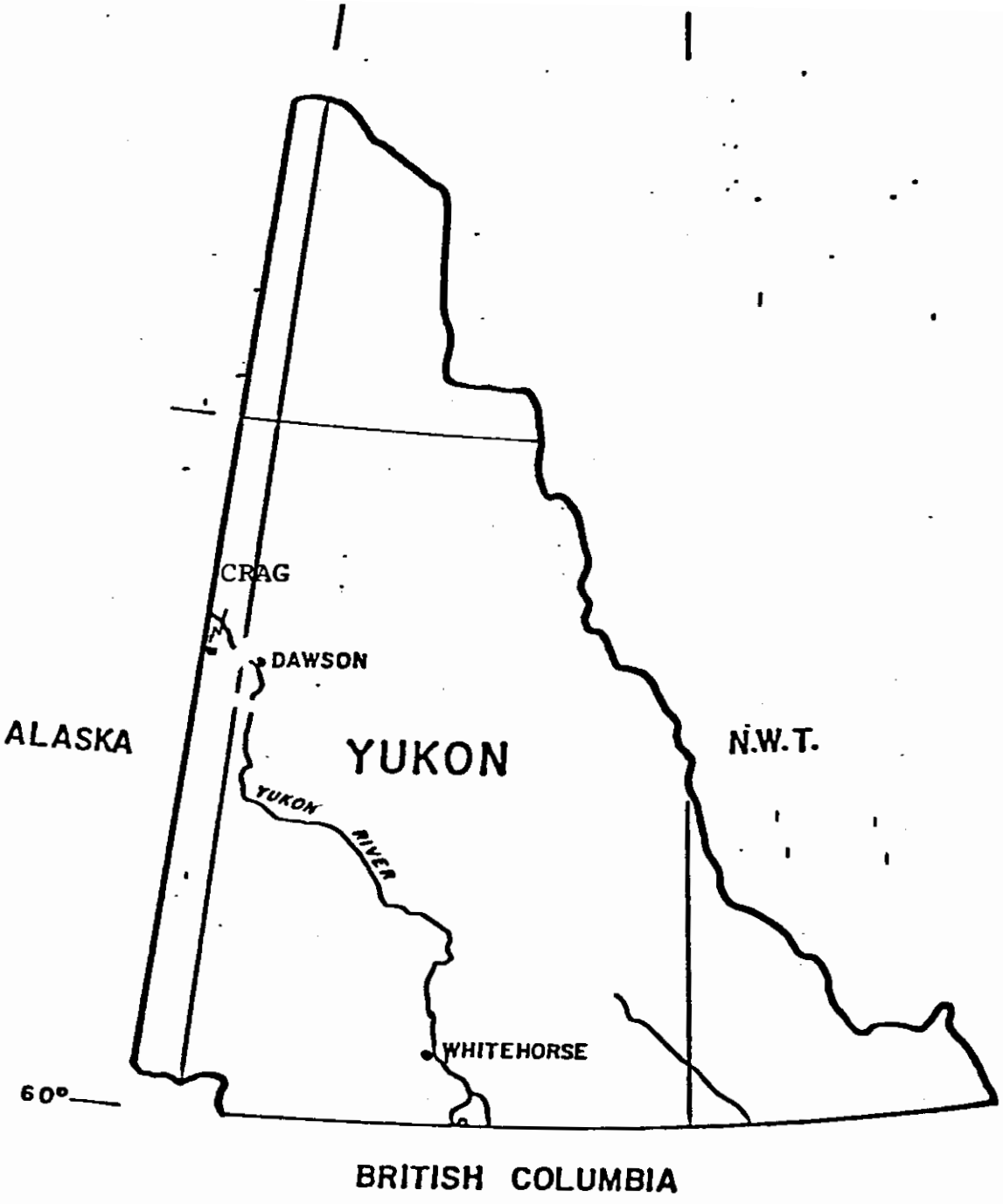

Figure 1

ELDORADO NUCLEAR LIMITED

PROJECT 522

LOCATION MAP

CRAG

CLAIM GROUP

SCALE: 1" = 120 mi

N

Regional work continued in the area during 1978 and 1979. Late in 1979, CRAG 1-60 were staked to protect a sharp drainage anomaly defined earlier in the season south of CRAG mountain. Applications to group and for certificates of work were made late in the 1980 field season for the work presented in this report.

1.1.3 Location and Access

The CRAG claims are located at North Latitude 63° 50' and West Longitude 140° 55', approximately 85 km WSW of Dawson City and less than 2 km from the Yukon-Alaska border. Access is via helicopter from Dawson City. (See figure 1).

1.1.4 Objectives of the 1980 Program

The objectives of the 1980 field program on the CRAG property were:

1: to locate the source of uranium that defined the sharp drainage anomaly present in the property.

2: to evaluate the surficial expression of the source using detailed ground radiometrics followed by detailed geochemistry involving soils, waters, and soil gas.

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II THE 1980 FIELD PROGRAM

2.1 General

The 1980 field work by Eldorado Nuclear consisted entirely of property evaluation. The largest part of the program dealt with evaluating the JOVE property which displayed the largest and most extensive anomalies and was therefore considered to be the most significant. The remaining portion of the work included examining the CRAG property. The approach used was to evaluate this claim group by a detailed program of surface radiometrics and geochemistry and to compare the results to those observed on the JOVE property.

2.2 Logistics

2.2.1 Personnel

The 1980 field crew consisted of the following personnel employed by Eldorado Nuclear:

NAME	TITLE	STATUS
William Olsson	Project Geologist	Permanent
John Mulvie	Senior Assistant	Temporary
Dave Melling	Assistant	Temporary

Messrs. Mulvie and Melling carried out the work on CRAG between August 21st and August 29th, 1980 from a fly camp established on the property. Supervision was done from a base camp established 25 km southeast of the property.

Technical advice was provided by Dr. C.F. Gleeson of C.F. Gleeson and Associates,Consulting Geochemists.

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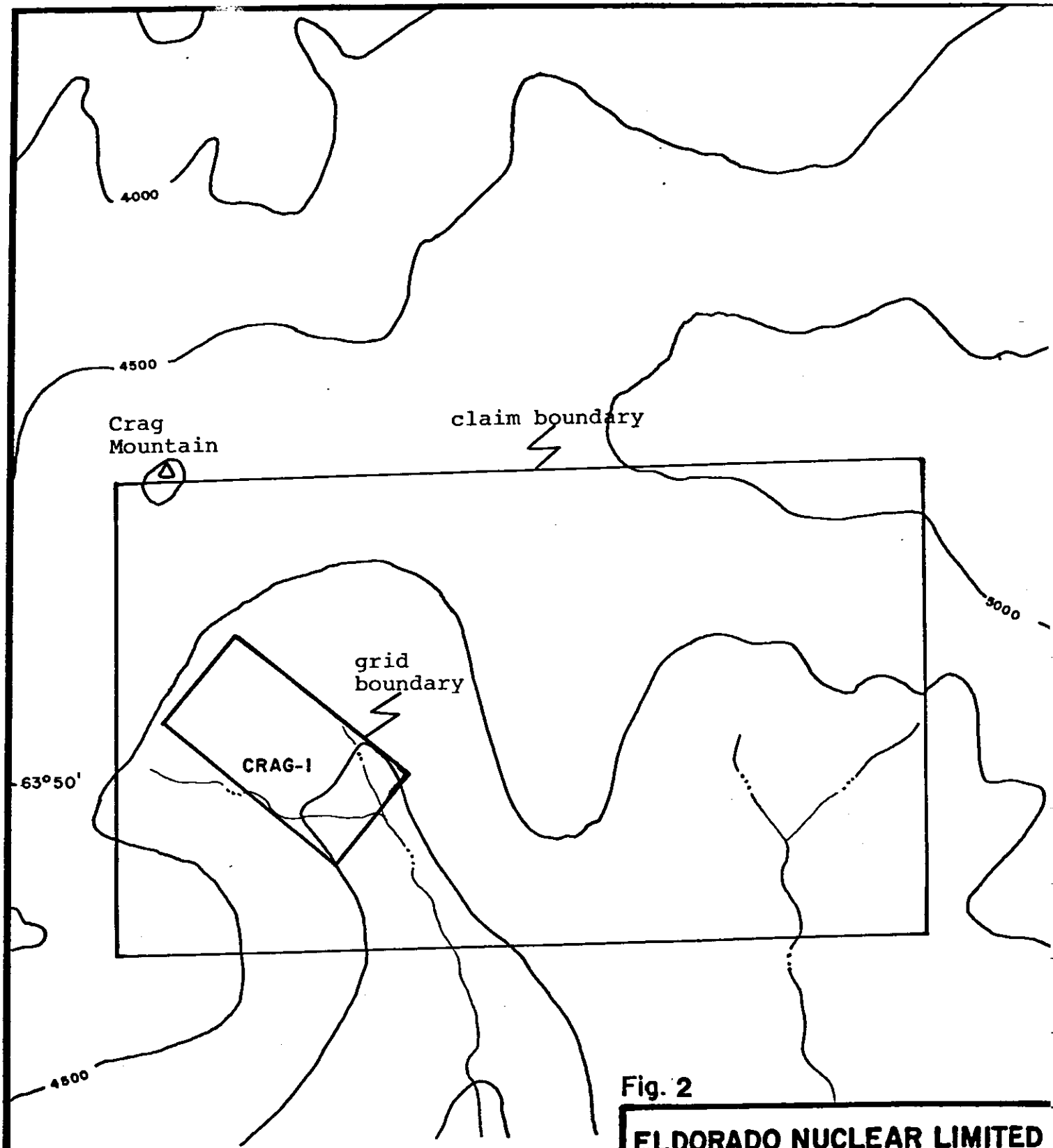

Fig. 2

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG GRID LOCATION

SCALE 1:25,000 1980

2.2.2 Aircraft

All airborne support between the properties and Dawson City was carried out by helicopters that were chartered on a casual basis. These helicopters were supplied by Trans North Turbo Air of Whitehorse, Y.T., Shirley Helicopters of Edmonton, Alberta, or Canwest Aviation Ltd., of Calgary, Alberta.

2.2.3 Expediting

Resources Expediting of Dawson City, Y.T. provided excellent radio support and expediting services during the entire field season. Traeger SSB50C H.F. radios were used for communication with the expeditors and between camps.

2.2.3 Camp Locations

The 1980 program was operated from a base camp established in late May along Glazy Creek on the JOVE property. Work on the CRAG property was undertaken from a fly camp located close to the work area.

2.2.4 Grid Location

The CRAG grid was designed to cover an area considered to be the source for the seepage and stream anomaly outlined by previous work. (See figure 2).

2.3 Geophyscial Surveys

2.3.1 General

One of the objectives of the 1980 field program was to obtain a detailed radiometric response of the claims. This was accomplished through a detailed ground radiometric survey.

2.3.2 Radiometric Surveys

A detailed ground radiometric response of properties was obtained with field personnel running lines 25 metres apart and taking readings every 10 metres. Instruments used for the surveys were Scintrex BGS-ISL total count scintillometers containing a 1½" crystal. Raw data was plotted daily at a scale of 1:2500 and contoured at a 20cps interval.

The final radiometric map for the properties is presented with only the contours and no raw data. The contour interval in this instance is 40 cps as a re-evaluation of the 20 cps intervals has shown it to be insignificant. Since radioactive decay producing gamma ray emissions follows the Poisson Distribution, the variance of the distribution of samples equals the standard deviation. Therefore, for a population with a mean around 100 cps (the CRAG property has a mean radiometric response of about 105 cps) there is a corresponding variance of 10 cps. One would therefore expect a reading of 100 cps to vary somewhere between 90 cps and 110 cps. If one uses the formula of the mean plus 2 times the standard deviation as the criteria for a minimum significant observation, one arrives at a minimum contour interval of 100 cps. A minimum significant fluctuation of 20 cps in data would suggest any contouring below 40 cps for data in the 100 cps range is not meaningful.

2.4 Geochemical Surveys

2.4.1 General

The geochemical work in 1980 on the CRAG property involved soil sampling and water sampling. Alpha meters were not used due to the large amount of surficial water present on the grid.

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Most analyses were carried out by Chemex Ltd. in labs located in North Vancouver, B.C. Specific conductivity, pH measurements and approximate radon determinations were all carried out in the field by Eldorado personnel. The conductivity meter employed was Model 1484 manufactured by the Horizon Ecology Company while pH measurements were made using a digital meter Model 5985-40 manufactured by the same company. All radon-in-water measurements were carried out in camp utilizing a RE 279 Radon Counter obtained on lease from Bondar Clegg Company. Field supplies for the geochemical sampling were obtained through Chemex Labs Ltd.

All sample sites were identified by a 4-digit number which was pre-printed on Kraft sample bags. A prefix was added to the 4-digit number for sample-type identification while a suffix was also added for work area identification. For example, a water sample taken from anomaly 115N9-3 would appear 42-7521-N93. Table I lists the prefixes used in 1980.

TABLE I

PREFIXES ASSIGNED TO SAMPLE SITE NUMBERS
FOR SAMPLE TYPE IDENTIFICATION

PREFIX	SAMPLE TYPE
40	soil
41	silt
42	water

All field data was recorded on 80-character data cards. These completed cards are on file in Ottawa for possible future computerization of data.

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Daily traverses were summarized nightly in a report. Individual traverses were identified by the letter E followed by a second letter taken from the first letter in an individual's last name. In the event of two people with last names beginning with the same letter, the letter of their first name was used.

2.4.2 Sampling Procedures

(a) Soils

Soil sampling was carried out on a 50m x 50m interval on the grid work. The B horizon was sampled at each location. Sample sites had previously been marked by the radiometric survey which also established the radiometric response at each station. The soil sample number was then written on a piece of flagging which was tied to a nearby branch at each location.

The grid soil sampling geochemical results are plotted at a scale of 1:2500.

(b) Waters

All seepages present on the grid were sampled for uranium analysis as well as for radon analysis. This required 2 samples to be taken at each site: one in a 200 ml plastic bottle; one in a 200 ml glass bottle. The water in the plastic bottle was measured for pH and specific conductivity before shipping to Chemex for uranium analysis. The sample in the glass bottle was used for radon determination in camp. As was the case for all other sample sites, the 4-digit sample number was written on a piece of flagging which was left nearby.

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The Bondar-Clegg RE 279 radon counter can also be used to determine an indirect measurement of radium-in-water. This is done by first running a sample for radon where the assumption is made that the sample is totally degassed of radon at this point. The sample is then allowed to sit for 3½ days at which time the procedure for analyzing for radon is once again repeated. The amount of radon detected during this second analysis is directly proportional to the amount of radium from which it was derived. (A 3½ day waiting period allows the radium-derived radon to arrive at equilibrium with the radium in solution). The theory is intriguing, however, experience in the field revealed that the assumption that the sample is entirely degassed during the radon analysis is in fact incorrect. This was confirmed by discussions with Bondar-Clegg.

In order to overcome the problem of incomplete degassing of water, two procedures were used. First of all, bulk samples were obtained from seeps with anomalous values in radon. These samples were submitted to Bondar Clegg and Company for both radon and radium determinations. At the same time a sample was taken for radon analysis in camp. In this way the amount of radon liberated during the analysis in camp was determined. The second procedure involved setting aside arbitrary samples with variable amounts of radon in them. These samples were kept for 30 days (equivalent to 6 half lives of radon) at which time any excess radon in the sample due to incomplete degassing will have desintegrated to negligible amounts. Any radon detected in the water at that time will have thus been derived from the radium in the sample.

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2.4.3 Sample Control

Lots of pre-numbered sample bags were assigned to specific sampling surveys to allow for easy monitoring of results. Sample numbers used on the CRAG property were obtained from the sequence 1000 to 3999.

Individuals were responsible for the drying of their own soil samples. Specific individuals were assigned tasks involving shipping the samples or analyzing the waters for specific conductivity and pH. All data was entered nightly into the traverse report and data accumulation book.

2.4.4 Analytical Procedures and Methods

Samples were submitted to Chemex for uranium analysis. Waters were regularly measured for pH, specific conductivity and radon content prior to shipping. In the case of samples greater than 100 ppm U, an automatic analysis for % U_3O_8 was carried out.

Analytical results were sent to Dawson City by telex and then forwarded to the field on the first available flight. Certificates of analysis were subsequently received.

Soils were dried at 550° C, screened to -80 mesh, split, weighed, dried twice in 4M nitric acid, acidified, fused with a standard sodium fluoride flux and analyzed with a G.K. Turner Fluorometer. Results are reported as ppm U. Rock samples were initially crushed and then processed in a similar fashion. The detection limit for this analytical method is 0.5 ppm U. As reported earlier, samples with values in excess of 100 ppm U (.001%) were automatically assayed and results reported as % U_3O_8.

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Water samples were first preconcentrated in the laboratory by evaporation and then analyzed in a similar fashion as the silts, soils and rocks. In this instance, results are reported as ppb U with a lower detection limit of 0.05 ppb U.

2.4.5 Data Control

(a) Monitoring

Individuals were responsible for completing a Daily Traverse Report which consisted of a sketch map showing sample locations, a paragraph or two of comments regarding the day's work and a list of all samples taken according to type. As analytical data was received, the information was transferred to the traverse reports and then plotted in the field.

A Data Accumulation book was kept to record various information regarding traverses. This information consisted of:

i) the traverse number
ii) the grid/work area worked
iii) a list of sample numbers used during the traverses
iv) a list of sample types taken at each station

and was filed according to individual traverse numbers.

A sample location map accompanies each set of maps and consists of the 4-digit sample number plotted along with a series of symbols indicating sample type. These symbols are:

X water
O silt
● soil

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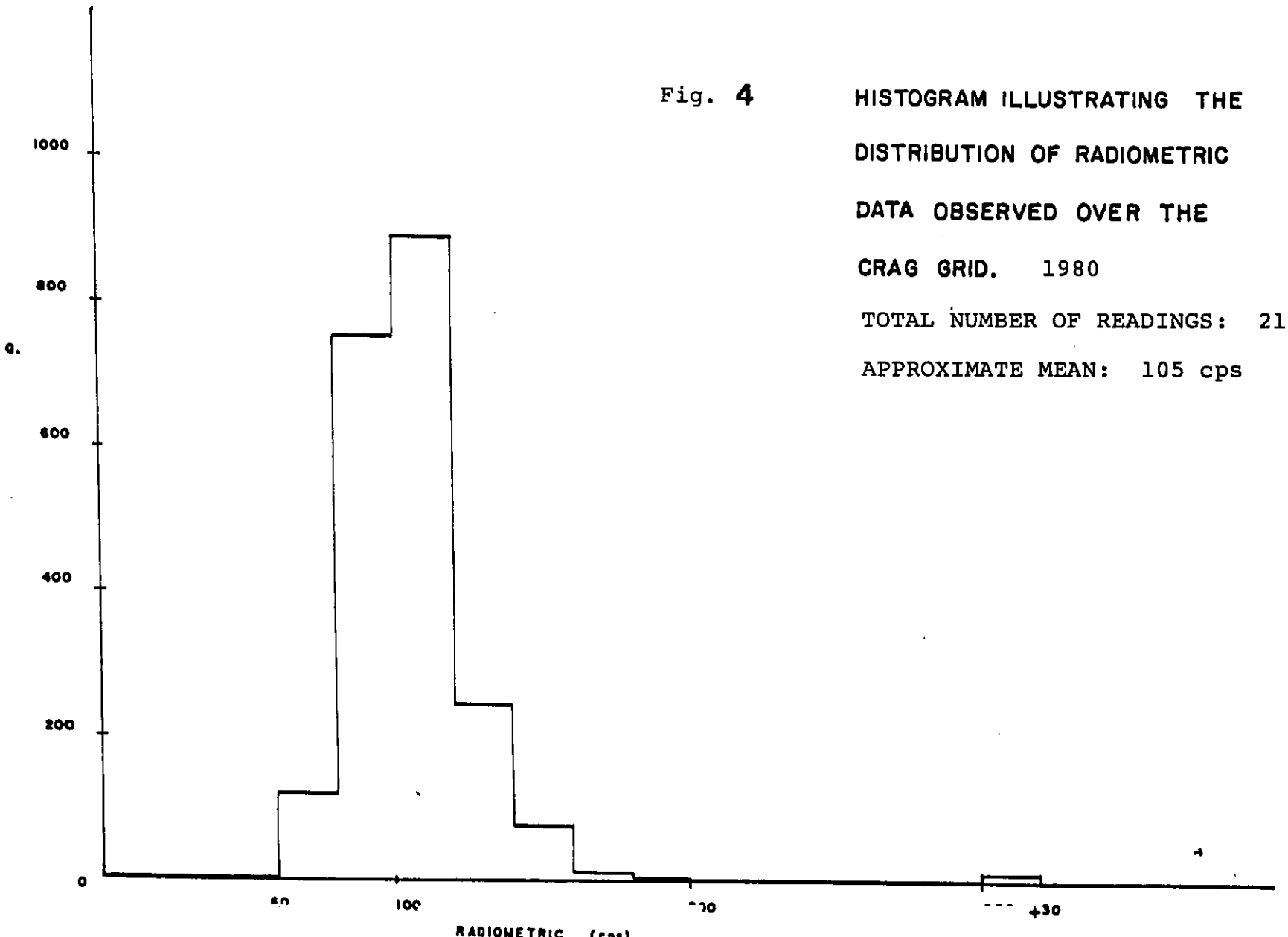

Fig. 4 HISTOGRAM ILLUSTRATING THE DISTRIBUTION OF RADIOMETRIC DATA OBSERVED OVER THE CRAG GRID. 1980

TOTAL NUMBER OF READINGS: 2178

APPROXIMATE MEAN: 105 cps

III RESULTS

3.1 Introduction

Anomalous stream samples were obtained in the vicinity of Crag Mountain in 1977. Follow-up reconnaissance work located a radioactive seep south of Crag Mountain. In 1979, preliminary soil sampling and regional geological mapping were undertaken in the area. The claims were staked late in 1979 to protect the anomalies defined to that point.

The object of the 1980 program on CRAG was to locate the source of the main seep, establish a geochemical and radiometric signature to the source(s) and to evaluate the resulting data in relation to the anomalies on the JOVE property.

3.2 Radiometrics

Figure 3 is a contoured, radiometric data map and Figure 4 is the corresponding histogram for work done on CRAG in 1980. The average radiometric response over the grid is 100 cps. The threshold value is considered to be 120 cps and anomalous readings are greater than 160 cps. Four radiometric anomalies have thus been defined and are outlined on the map.

Anomaly 1, located at the south end of the grid, corresponds to the original radioactive seep discovered in 1979. It has an oblong shape (400m by 200m) and is open to the south. Maximum readings observed in this area are in the 1000 cps to 2000 cps range. The shape of anomaly 1 suggests it may be reflecting underlying structures.

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Anomaly 2 is located 200m uphill from anomaly 1 at 75+50N, 72+50W. It is defined by the 120 cps contour but has anomalous values of 200 cps. This anomaly is essentially a spot anomaly and could be due to a local, radioactive seep.

The third anomaly is also uphill from anomaly 1 and is centered at 77+50N, 72+00W. Its shape is somewhat circular and although defined by the 120 cps contour, the anomaly has several values in the 160 cps to 215 cps range.

Anomaly 4 is positioned at the upper right-hand corner of the grid in an area covered by a wide radiometric response of threshold value readings. The anomaly itself is elongated, open to the north and defined by the 160 cps contour with a maximum value of 205 cps recorded.

For the most part, the magnitude of the values defining the radiometric anomalies on CRAG is the same as the response observed on the JOVE-1 and JOVE-2 grids. The maximum readings observed on anomaly 1, however, are more than 2 times greater than those recorded on the JOVE property.

3.3 Soil Geochemistry

The soil geochemistry results are presented in contoured form as Figure 5. The mean value for uranium in soils lies in the 5.0 to 7.5 ppm range. The threshold value is in the 10.0 ppm to 15.0 ppm range while values in excess of 20.0 ppm are estimated to be anomalous soils. Using this criteria, a total of 6 soil anomalies have been defined by the data, are outlined on the map, and are summarized in the following table.

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TABLE II

URANIUM-IN-SOIL ANOMALIES

CRAG CLAIMS 1980

Anomaly Number	North Co-ordinate	West Co-ordinate	Size	Range of Values (ppm U)
1	71+50N	70+75W	50m x 100m	20.0-400.0
2	79+00N	72+00W	100m x 100m	21.0- 37.0
3	79+50N	68+50W	75m x 25m	20.0- 27.0
4	76+00N	66+00W	200m x 75m	13.0- 36.0
5	72+50N	67+50W	100m x 50m	28.0
6	72+00N	66+00W	100m x 50m	11.5- 22.0

Anomaly 1 is related to the original CRAG radiometric anomaly discovered in 1978 and is the strongest and most significant anomaly outlined in 1980. Two samples with 400 ppm U were obtained from this anomaly. The anomaly is open to the south and reflects the dispersion action by the drainage. A small, weak arm to the anomaly trends off to the right side of the grid at 70+00N, 70+00W. This is an intermittent drainage system carrying uranium from an uphill source. Note anomalies 5 and 6 are only 250 metres uphill from this location.

Anomaly 2 is near the top of the grid and is defined by two anomalous samples. Of significance however is the long (500m), weak dispersion anomaly defined by the 10 ppm contour joining anomaly 1 with anomaly 2.

Anomaly 3, located east of anomaly 2, is a spot anomaly (27.0 ppm U) that also has a weak dispersion pattern.

Anomaly 4 has an hourglass shape to it and is located in the central right area of the grid. Values are 23.5 ppm to 36.0 ppm U.

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Anomalies 5 and 6 are in the lower right quadrant of the grid approximately 250 metres from anomaly 1. Both are spot anomalies that are close to one another with values of 28 and 22 corresponding to 5 and 6 respectively.

The major trend to the soil geochemical data parallels that of the drainage which is northwest-southeast. However, there is a second trend with a north-south lineation to it.

3.4 Water Geochemistry

A total of 123 water samples distributed over the entire grid was obtained from the CRAG property in 1980. Only 20% of the waters were measured for pH due to a malfunction of the instrument. However, based on the data obtained, the pH of the waters on CRAG lie in the 5.0 to 5.6 range (Figure 6) - values which are consistent with the regional data from previous years. Specific conductivity measurements are similarly consistent with previous data with observed values of 5 to 20 micromohs/cm recorded (Figure 6).

The uranium content of waters from CRAG is low, ranging from 0.2 ppb to 1.0 ppb. Values are plotted as Figure 6. Locally values up to 24.1 ppb are present and are considered to represent uraniferous seeps. The lower values reflect the uranium content of surface waters on the grid. A uranium-in-water anomaly is located near the south end of the grid and corresponds to the radioactive seep discovered in 1978. A second anomaly located 200 metres west of the first anomaly (71+00W, 72+50N) corresponds to another radioactive seep.

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The radon values obtained from waters (Figure 7) generally do not reflect the uranium values (Figure 6). The strongest radon anomaly corresponds to the uranium anomaly and has several samples with a radon content in excess of 10,000 pc/l (highest value is 50,250 pc/l). Elsewhere there are 4 weaker anomalies defined by values in excess of 1000 pc/l. These are all spot anomalies and lie west of baseline 70+00W. Two anomalies are located on the west edge of the grid and have values of 1205 and 1801 pc/l. The other two are located at the headwaters of the main drainage on the grid, have measurements of 1005 and 1243 pc/l and are both contained within the same 250 pc/l contour.

3.5 Summation

The most significant anomaly on the CRAG property remains the seepage anomaly discovered in 1978. At that location there are coincident radiometric, uranium-in-soil, uranium-in-water and radon-in-water anomalies. Elsewhere the various anomalies seem to be unrelated, with the exception that soil anomalies frequently have a corresponding weak radon anomaly nearby.

The final program approved by the Management Committee for work on CRAG in 1980 did not include provisions for geological mapping. Regional geological mapping was undertaken in earlier years in the vicinity of Crag Mountain. A summary of this work follows.

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The area south of Crag Mountain is underlain by grey weathering, medium-grained, foliated quartz monzonite. Intercalations of augen gneiss are present as well. The foliation is defined by the alignment of muscovite and biotite flakes and quartzose patches. Tiny euhedral garnets are evident in the unit. To the west, and in the vicinity of the peak of Crag Mountain, the augen gneiss variety of Pelly Gneiss is evident in felsenmeer.

The geological information to date from CRAG indicates the terrane is similar to that observed at JOVE.

IV DISCUSSION OF RESULTS

The work on CRAG in 1980 has delineated several radoniferous seepage anomalies and associated uranium anomalies in the drainage system. In addition, both uranium-in-soil and radon-in-water anomalies were identified uphill from these major seepage anomalies. Of interest are the seepage anomalies entering the main stream from the west side of the property. It is interpreted that the mountain marking the border between the Yukon and Alaska is the provenance for these seeps. The relatively low level of the soil anomalies combined with the low uranium-in-water values did not enhance the property.

.....17

V CONCLUSIONS

The following conclusions were derived from the results of the field work carried out on the CRAG property in 1980:

1: Several radioactive seeps other than the main one are located on the CRAG grid.

2: The uranium-in-soil and radon-in-water anomalies located uphill away from the seepage anomalies are a possible source for the anomalous amounts of uranium found in the main stream.

3: The area between the west edge of the property and the Alaska border appears to contain the source of several radoniferous and radiometric anomalies located on the property.

4: The uranium content of soils obtained from CRAG averages around 4.0 ppm while those obtained from JOVE average 2.0-3.0 ppm. (These averages exclude anomalously high values).

.....18

VI RECOMMENDATIONS

In view of the close similarity the CRAG property has to the JOVE property, the following recommendations are suggested:

1) A detailed geological map of the property be compiled.

2) All anomalies defined to date be closed off.

3) All significant soil anomalies be hand pitted or trenched in order to evaluate them further.

January 1981

William Olsson,
Project Geologist

APPENDIX A
GRID LOCATION ON CRAG CLAIMS
1980

141°00'

4500

63°50'

63°50'

1 5058	2	13	14	25	26	37	38	49	50
YA47649	YA47650	YA47661	YA47662	YA47673	YA47674	YA47685	YA47686	YA47697	YA47698
3	4	15	16	27	28	39	40	51	52
YA47651	YA47652	YA47663	YA47664	YA47675	YA47676	YA47687	YA47688	YA47699	YA47700
5	6	17	18	29	30	41	42	53	54
YA47653			YA47666	YA47677	YA47678	YA47689	YA47690	YA47701	YA47702
7	8	19	20	31	32	43	44	55	56
YA47655			YA47668	YA47679	YA47680	YA47691	YA47692	YA47703	YA47704
9	10	21	22	33	34	45	46	57	58
YA47657	YA47658	YA47669	YA47670	YA47681	YA47682	YA47693	YA47694	YA47705	YA47706
11	12	23	24	35	36	47	48	59	60
YA47659	YA47660	YA47671	YA47672	YA47683	YA47684	YA47695	YA47696	YA47707	YA47708

C R A G

4500

4000

3500

Claims on which the work was done in 1980

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG

LOCATION MAP

SCALE 1 INCH = 1/2 MILE

141°00'

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG CLAIMS

SAMPLE LOCATIONS

o soil
x water

50 0 50 100 150 m

Scale 1:2,500

1980

APPENDIX B
CHEMEX CERTIFICATES OF ANALYSIS
1980

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

•ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010332-001-A

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert Street
Ottawa, Ontario
K1P 6A9

INVOICE NO. 39738

RECEIVED Sept. 3/80

ATTN: Mr. W. Olsson "SOIL"

ANALYSED October 22/80

SAMPLE NO. :	U Fluor ppm
1700	2.0
1701	2.5
1702	6.5
1703	4.0
1704	27
1705	10.5
1706	5.0
1707	10.5
1708	21.0
1709	5.5
1710	7.5
1711	6.0
1712	8.5
1713	16.5
1714	13.0
1715	4.0
1716	9.5
1717	16.5
1718	3.0
1719	2.0
1720	6.5
1721	11.0
1722	2.5
1723	7.0
1724	8.5
1725	10.5
1726	5.5
1727	5.0
1728	10.5
1729	12.0
1730	13.0
1731	9.5
1732	7.0
1733	4.0
1734	7.5
1735	6.0
1736	8.5
1737	5.0
1738	5.0
1739	8.0

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010332-002-A

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert Street
Ottawa, Ontario
K1P 6A9

ATTN: Mr. W. Olsson " SOIL"

INVOICE NO. 39738

RECEIVED Sept. 3/80

ANALYSED Oct. 22/80

SAMPLE NO. :	U Fluor ppm
1740	2.0
1741	18.5
1742	3.5
1743	4.0
1744	13.0
1745	7.5
1746	2.5
1747	1.5
1748	2.5
1749	4.0
1750	17.5
1751	2.5
1752	6.5
1753	3.0
1754	4.0
1755	3.0
1756	2.5
1757	14.0
1758	1.0
1759	4.5
1760	2.0
1761	6.0
1762	3.0
1763	5.5
1764	14.5
1765	6.5
1766	4.5
1767	1.5
1768	5.0
1769	3.0
1770	4.0
1771	7.0
1772	3.0
1773	6.5
1774	6.5
1775	5.0
1776	6.5
1777	4.0
1778	7.0
1779	3.5

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Biesle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010332-003-A

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert Street
Ottawa, Ontario
K1P 6A9

ATTN: Mr. W. Olsson " SOIL "

INVOICE NO. 39738

RECEIVED Sept. 3/80

ANALYSED Oct. 22/80

SAMPLE NO. :	U Fluor ppm
1780	4.5
1781	28
1782	2.0
1783	9.0
1784	12.5
1785	22.0
1786	3.0
1787	2.0
1788	2.5
1789	5.0
1790	12.0
1791	+400
1792	4.5
1793	5.0
1794	14.0
1795	3.5
1796	11.0
1797	1.5
1798	3.0
1799	6.5
1800	1.5
1801	4.0
1802	1.5
1804	7.5
1805	5.5
1806	2.5
1807	3.0
1808	9.0
1809	5.0
1810	3.5
1811	6.0
1812	4.0
1813	3.5
1814	10.0
1815	37
1816	8.0
1817	15.5
1818	7.5
1819	4.5

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010332-004-A

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert St.
Ottawa, Ontario
K1P 6A9

INVOICE NO. 39738

RECEIVED Sept. 3, 1980

ANALYSED Oct. 22/80

ATTN: Attention: Mr. W. Olsson "SOIL"

SAMPLE NO. :	U Fluor ppm
1820	9.0
1821	1.5
1822	2.0
1823	2.0
1824	10.0
1825	2.5
1826	4.5
1827	3.0
1828	4.0
1829	5.5
1830	10.0
1831	8.5
1832	4.0
1833	7.0
1834	3.5
1835	3.5
1836	4.0
1837	3.0
1838	14.5
1839	9.0
1840	13.0
1841	7.5
1842	3.0
1843	3.5
1844	5.0
1845	15.0
1846	11.0
1847	36
1848	3.0
1849	2.0
1850	2.0
1851	2.5
1852	5.5
1853	13.5
1854	5.0
1855	10.0
1856	4.5
1857	4.5
1858	5.5
1859	2.5

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert St.
Ottawa, Ontario
K1P 6A9

ATTN: Mr. W. Olsson "SOIL"

CERTIFICATE NO. A8010332-005-A
INVOICE NO. 39738
RECEIVED Sept. 3, 1980
ANALYSED Oct. 22/80

SAMPLE NO. :	U Fluor ppm
1860	9.0
1861	10.5
1862	2.5
1863	7.5
1864	3.5
1865	23.5
1866	5.0
1867	30
1868	4.5
1869	10.0
1870	15.5
1871	4.5
1872	2.0
1873	1.0
1874	15.5
1875	3.5
1876	6.0
1877	6.0
1878	4.5
1879	6.5
1880	5.5
1881	5.5
1882	6.0
1883	16.0
1884	3.5
1885	6.5
1886	3.5
1887	2.5
1888	5.5
1889	13.0
1890	14.5
1891	37
1892	38
1893	17.0
1894	2.0
1895	1.5
1896	4.5
1897	11.5
1898	3.0
1899	11.5

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010332-006-A

TO: ELDORADO NUCLEAR LIMITED
Ste. 400 - 255 Albert St.
Ottawa, Ontario
K1P 6A9

INVOICE NO. 39738

RECEIVED Sept. 3/80

ATTN: Mr. W. Olsson "SOIL"

ANALYSED Oct. 17/80

SAMPLE NO. :	U Fluor ppm
1915	5.0
1916	1.5
1917	131
1918	9.0
1919	3.0
1920	11.0
1921	29
1922	3.0
1923	1.0
1924	30
1925	26
1926	2.0
1927	1.0
1928	1.5
1929	6.5
1930	+400
1931	37
1932	2.0
1933	6.5
1934	7.5
1935	8.5
1936	4.5
1937	5.0
5744	10.0
5745	4.0
1900	2.0
1901	3.0
1902	12.5
1903	2.5
1904	2.0
1905	5.0
1906	26
1907	36
1908	4.5
1909	5.5
1910	3.5
1911	5.5
1912	4.5
1913	4.0
1914	6.0

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biellle

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

T : Eldorado Nuclear Ltd.
Bag #3000
Dawson City, Y.T.

CERT. # : A8010331-001-A
INVOICE # : 38803
DATE : 15-SEP-80

Sample Description	U PPB			
1784	0.8	--	--	--
1785	0.8	--	--	--
1950	1.2	--	--	--
1951	1.6	--	--	--
1790	0.8	--	--	--
1791	1.4	--	--	--
1952	3.2	--	--	--
2001	1.0	--	--	--
2002	0.6	--	--	--
2003	0.6	--	--	--
2004	1.0	--	--	--
2005	0.8	--	--	--
2006	1.0	--	--	--
2007	2.0	--	--	--
2008	1.2	--	--	--
2009	0.6	--	--	--
2010	1.2	--	--	--
2011	1.2	--	--	--
2012	1.0	--	--	--
2013	1.2	--	--	--
2014	1.2	--	--	--
2015	1.6	--	--	--
2016	1.6	--	--	--
2017	1.2	--	--	--
2018	1.0	--	--	--
2019	1.0	--	--	--
2020	1.8	--	--	--
2021	0.6	--	--	--
2022	0.4	--	--	--
2023	1.0	--	--	--
2024	1.6	--	--	--
2025	9.4	--	--	--
2026	24.2	--	--	--
2027	1.2	--	--	--
2028	1.2	--	--	--
2029	1.0	--	--	--
2030	1.6	--	--	--
2031	1.6	--	--	--
2032	0.6	--	--	--
2033	1.0	--	--	--

Certified by Hart Biddle

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

T : Eldorado Nuclear Ltd.
Bag #3000
Dawson City, Y.T.

CERT. # : A8010331-002-A
INVOICE # : 38803
DATE : 15-SEP-80

Sample escription	U PPB			
20034	0.6	--	--	--
20035	15.2	--	--	--
0036	1.0	--	--	--
20037	0.6	--	--	--
20038	0.6	--	--	--
0039	0.4	--	--	--
0040	0.4	--	--	--
20041	0.6	--	--	--
0042	0.6	--	--	--
0043	0.6	--	--	--
20044	0.6	--	--	--
20045	0.6	--	--	--
0046	0.8	--	--	--
20047	0.4	--	--	--
20048	0.4	--	--	--
0049	1.2	--	--	--
0050	0.4	--	--	--
20051	0.6	--	--	--
0052	0.6	--	--	--
0053	0.8	--	--	--
20054	0.6	--	--	--
20055	0.8	--	--	--
0056	0.8	--	--	--
20057	0.6	--	--	--
20058	0.4	--	--	--
0059	2.0	--	--	--
0060	0.6	--	--	--
20061	0.6	--	--	--
0062	0.8	--	--	--
0063	0.6	--	--	--
20064	0.6	--	--	--
20065	0.4	--	--	--
0066	1.2	--	--	--
0067	1.2	--	--	--
20068	0.6	--	--	--
0069	0.6	--	--	--
0070	0.6	--	--	--
20071	1.0	--	--	--
20072	0.8	--	--	--
0073	1.0	--	--	--

Certified by Hart Biddle

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Eldorado Nuclear Ltd.
Bag #3000
Dawson City, Y.T.

CERT. # : A8010331-003-A
INVOICE # : 38803
DATE : 15-SEP-80

Sample escription	U PPB			
2074	0.8	--	--	--
2075	0.6	--	--	--
076	1.2	--	--	--
2077	0.8	--	--	--
2078	0.6	--	--	--
079	0.6	--	--	--
080	0.6	--	--	--
2081	0.6	--	--	--
082	1.6	--	--	--
083	0.4	--	--	--
2084	0.2	--	--	--
2085	0.8	--	--	--
086	0.6	--	--	--
2087	0.6	--	--	--
2088	0.6	--	--	--
089	0.6	--	--	--
090	0.6	--	--	--
2091	0.2	--	--	--
092	0.8	--	--	--
093	0.6	--	--	--
2094	0.6	--	--	--
2100	0.8	--	--	--
101	1.0	--	--	--
102	1.0	--	--	--
2103	0.6	--	--	--
104	0.8	--	--	--
105	0.6	--	--	--
2106	1.0	--	--	--
107	0.6	--	--	--
108	0.6	--	--	--
2109	0.6	--	--	--
2110	0.8	--	--	--
111	1.0	--	--	--
12	0.6	--	--	--
2113	0.6	--	--	--
14	0.8	--	--	--
15	0.6	--	--	--
2116	0.6	--	--	--
2117	0.2	--	--	--
18	0.6	--	--	--

Certified by ...Hart Biddle.....

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS •• GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Eldorado Nuclear Ltd.
Bag #3000
Dawson City, Y.T.

CERT. # : A8010331-004-A
INVOICE # : 38803
DATE : 15-SEP-80

Sample escription	U PPB			
2119	0.2	--	--	--
2120	0.2	--	--	--
121	0.6	--	--	--
122	0.4	--	--	--

Certified by Hart Biddle

APPENDIX C

SAMPLE LOCATION MAP

CRAG CLAIMS

1980

Statement of Expenditures
CRAG 1-60
1980

Direct Costs to Eldorado Nuclear:				
	Salaries:	J. Mulvie 9 days @ 100	$900	
		D. Melling 9 days @ 85	765	
			1665	$1,665
Contractor Costs:				
	Helicopters:	Shirley Helicopters	1444.32	
			2006.00	
			3450.32	5115.32
Analytical Charges:				
		236 Soils @ 2.60	613.60	
		125 Waters @ 2.80	350.00	
			963.60	6,078.92

The above costs are a true and accurate compilation of expenditures that were incurred in carrying out the field work on the CRAG 1-60 claim block between August 20 and August 29, 1980.

William Olsson

William Olsson,
Project Geologist

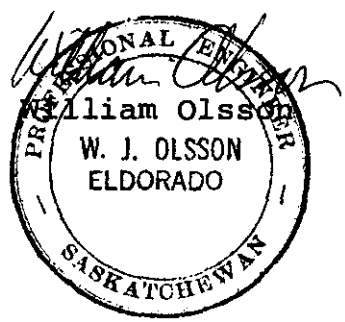
Sworn before me
in Ottawa, Ontario
on the 6th day
of February, 1981.

I, William Olsson, do hereby certify I am a geologist, having graduated from Queen's University in Kingston, Ontario and hold the degree of Bachelor of Applied Science. I am also registered as a Professional Engineer with the Professional Engineers of Saskatchewan.

I have practised my profession for seven years and am presently employed by Eldorado Nuclear Limited, 400 - 255 Albert Street, Ottawa, Ontario.

I certify that I have no direct or indirect interest in this property, nor do I anticipate receiving any in the near future.

William Olsson



[illegible] TELEX: 053-3548

INSTRUMENT DIVISION, 6 BEXLEY PLACE, NEPEAN, ONTARIO K2H 8W2 PHONE (613) 820-8803

ELDORADO NUCLEAR
255 ALBERT STREET
OTTAWA, ONTARIO

ATTN: MR. C. RILEY

INVOICE: C 7242

DATE: MAY 14, 1980

REPORT NO: 80-308

PROJECT: 9EX-114308

TERMS: NET 30 DAYS

TO INVOICE RE YOUR PURCHASE ORDER 9EX-114308 FOR:

1 -	RE279 RADON COUNTER, SERIAL NO. 279009 COMPLETE WITH ACCESSORIES AND FOR RENTAL FOR A PERIOD FROM MAY 1, 1980-AUGUST 31, 1980 INCL. @$562.50 PER MONTH	- $2,250.00
1 -	RE279 RADON COUNTER, SERIAL NO. 279010 COMPLETE WITH ACCESSORIES AND FOR RENTAL FOR A PERIOD FROM MAY 1, 1980-AUGUST 31, 1980 INCL. @$562.50 PER MONTH	- $2,250.00
	TOTAL THIS INVOICE	- $4,500.00

522 - 41 - 193

[illegible] Jul 18/80

INVOICE DATE YR. MO DAY	REGISTER	VENDOR	INVOICE NO.		
80 05 14	Nº 44940		C 7242		
DUE PER. / BANK	DIV.	C. CTR.	ORDER NO.	C. EL.	AMOUNT
8c25 2	020	80	522 41	193	$4500.00
DISCOUNT					
AMOUNT $4500.00					
VOUCHER NO.					

EXPLORATION

ORATION
VISION
JUL 16 1980

INVOICE

CHEMEX LABS LTD.

NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

• ANALYTICAL CHEMISTS • •GEOCHEMISTS • •REGISTERED ASSAYERS

TO: Eldorado Nuclear Ltd.
Bag #3000
Dawson City, Yukon

ATTN: William Olsson

Soil / Sludges

CERTIFICATE NO. 53528 - 53530
INVOICE NO. 36446
DATE June 24/80

	DESCRIPTION	SUB-TOTAL	TOTAL
105	Analysed for U @ $2.75	$288.75	
105	Prepared @ $0.50	52.50	
		341.25	
	Less 20%	-68.25	
			$273.00

020-80-522-40-195
William Olsson

INVOICE DATE YR.	MO.	DAY	REGISTER		VENDOR	INVOICE NO
80	6	24	Nº 55824			36446
DUE PER.	BANK	DIV.	C. CTR.	ORDER NO.	C. EL.	AMOUNT
8030	2	020	80	522 40	195	273.00
DISCOUNT						
AMOUNT 273.00						
VOUCHER NO.						
GOODS SERV. PRICE						
AUDITED						

EXPLORATION DIVISION
JUL 21 1980
APPROVED FOR PAYMENT

78-04

NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS •• GEOCHEMISTS •• REGISTERED ASSAYERS

TO: Eldorado Nuclear Ltd.
Ste. 400 - 255 Albert St.
Ottowa, Ontario K1P 6A9

CERTIFICATE NO. A8010331-001-A
INVOICE NO. 38803
DATE Sept. 17/80

ATTN: WATERS

	DESCRIPTION	SUB-TOTAL	TOTAL
124	Analyzed for U @ $3.50	$434.00	
	Less 20%	86.80	
			$347.20

020-80-522-42-195

William Olson

INVOICE DATE YR.	MO	DAY	REGISTER	VENDOR	INVOICE NO.
80	9	17	No. 66112		38803

DIV.	C. CTR.	ORDER NO.	C. EL.	AMOUNT
020	80	522 42	195	347.20

DUE PER. 8040 BANK 2
DISCOUNT
AMOUNT 347.20

EXPLORATION DIVISION
SEP 23 1980
APPROVED FOR PAYMENT

AUDITED BL

78-0

INVOICE

Edmonton, Alberta T5G 2Z3
Phone 453-5121

...rs Ltd.

August 29, 1980

Eldorado Nuclear,
400 - 255 Albert Street,
Ottawa, Ontario

ACCOUNTS DUE WHEN RENDERED			PAYABLE AT PAR EDMONTON
CUSTOMER'S ORDER NUMBER		HELICOPTERS	PILOT
		C-GSHH	Thompson
DESCRIPTION			CHARGES
August 20, 1980	76167	6.1 hrs. @ $400. per hr.	$2,440.00
		Plus Fuel @ $1.75 per gl. for 94.3g.	165.03
		Plus Oil @ $1.20 per hr.	7.32
August 21, 1980	76168	3.6 hrs. @ $400. per hr. Mob to Craig	1,440.00
		Plus Oil @ $1.20 per hr.	4.32
			$4,056.67

A 13259

TERMS NET 30 DAYS — 2% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

Municipal Airport
Alberta T5G 2Z3
453-5121
...s Ltd.

INVOICE

Hangar No. 6A, Municipal Airport
Edmonton, Alberta T5G 2Z3
Phone 453-5121

August 29, 1980

Eldorado Nuclear,
400 - 255 Albert Street,
Ottawa, Ontario

ACCOUNTS DUE WHEN RENDERED — PAYABLE AT PAR EDMONTON

CUSTOMER'S ORDER NUMBER	HELICOPTERS	PILOT
	C-GSHH	Thompson

DESCRIPTION			CHARGES
August 25, 1980	69928	2.6 hrs. @ $400. per hr.	$1,040.00
		Plus Fuel @ $1.75 per gal for 59.8g.	104.65
		Plus Oil @ $1.20 per hr.	3.12
August 26, 1980	69929	2.5 hrs. @ $400. per hr.	1,000.00
		Plus Fuel @ $1.75 per gal for 57.5g.	100.63
		Plus Oil @ $1.20 per hr.	3.00
August 27, 1980	69930	5.0 hrs. @ $400. per hr.	2,000.00
		Plus Oil @ $1.20 per hr.	6.00
			$4,257.40

A 13266

TERMS NET 30 DAYS — 2% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

RAW GEOPHYSICAL DATA

CRAG CLAIMS

1980

80+00N

75+00N

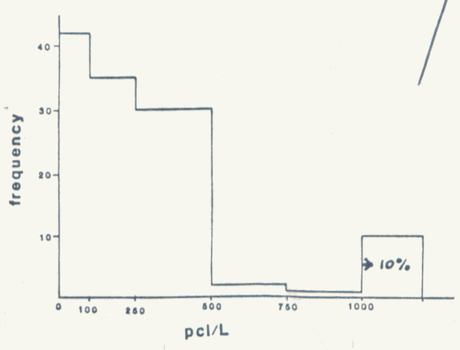
70+00N

75+00W

BL 70+00W

65+00W

100 70+00N



CONTOUR INTERVAL

0-100	pc/l
100-250	"
250-500	"
500-750	"
750-1000	"
+1000	"

LEGEND

ppb U ○ pc/l Rn

pH ○ Spec. Cond.

S RADIOACTIVE SEEP

NOTE: ELEVATION CONTOURS ARE IN FEET.

FIG 7

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG CLAIMS

GEOCHEMISTRY - RADON IN WATER

50 0 50 100 150m

Scale 1:2,500

1980

80+00N

75+00N

70+00N

75+00W

65+00W

BL 70+00W

2

3

4

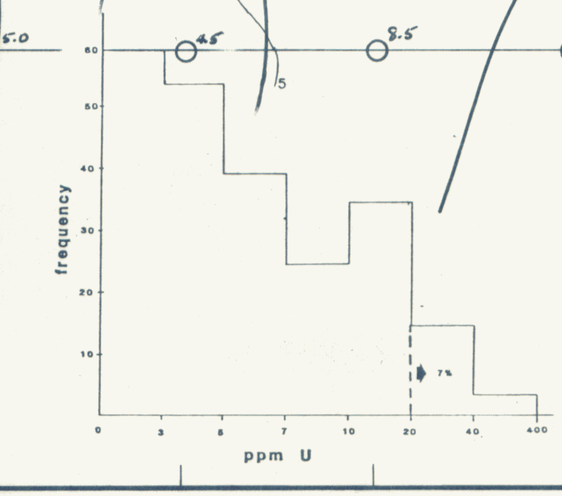
5

6

S

4500

4200



LEGEND

○ ppm U

(2) ANOMALY OUTLINE

S RADIOACTIVE SEEP

NOTE: ELEVATION CONTOURS ARE IN FEET

CONTOUR INTERVAL

0-3	ppm U
3-5	"
5-7	"
7-10	"
10-20	"
20-40	"
+40	"

Fig. 5

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG CLAIMS

GEOCHEMISTRY - SOIL

50 0 50 100 150m

Scale 1:2,500

1980

80+00 N

80-00 N

75+00 N

75+00 N

70+00 N

70+00 N

75+00 W

BL 70+00 W

BL 65+00 W

4500

4500

4200

1.0

2.0

3.0

4.0

S

CONTOUR INTERVAL

0-1	ppb U
1-2	"
2-3	"
3-4	"
+4	"

LEGEND

ppb U pc/l Rn

pH Spec. Cond.

S RADIOACTIVE SEEP

NOTE: ELEVATION CONTOURS ARE IN FEET

Fig. 6

ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG CLAIMS

GEOCHEMISTRY - URANIUM IN WATER

50 0 50 100 150 ft

Scale 1:2,500

1980

80+00N

80+00 N

75+00N

75+00 N

70+00N

70+00 N

75+00 W

BL 70+00W

4500

4200

CONTOUR INTERVAL

0-40 cps
40-80 "
80-120 "
120-160 "
160-200 "
+200 "

LEGEND

(2) ANOMALY OUTLINE

S RADIOACTIVE SEEP

NOTE: READINGS WERE OBTAINED AT 10m INTERVALS ALONG LINES TRENDING 025° AND 25m APART.

ELEVATION CONTOURS ARE IN FEET.

Fig. 3

ELDORADO NUCLEAR LIMITED

PROJECT 522

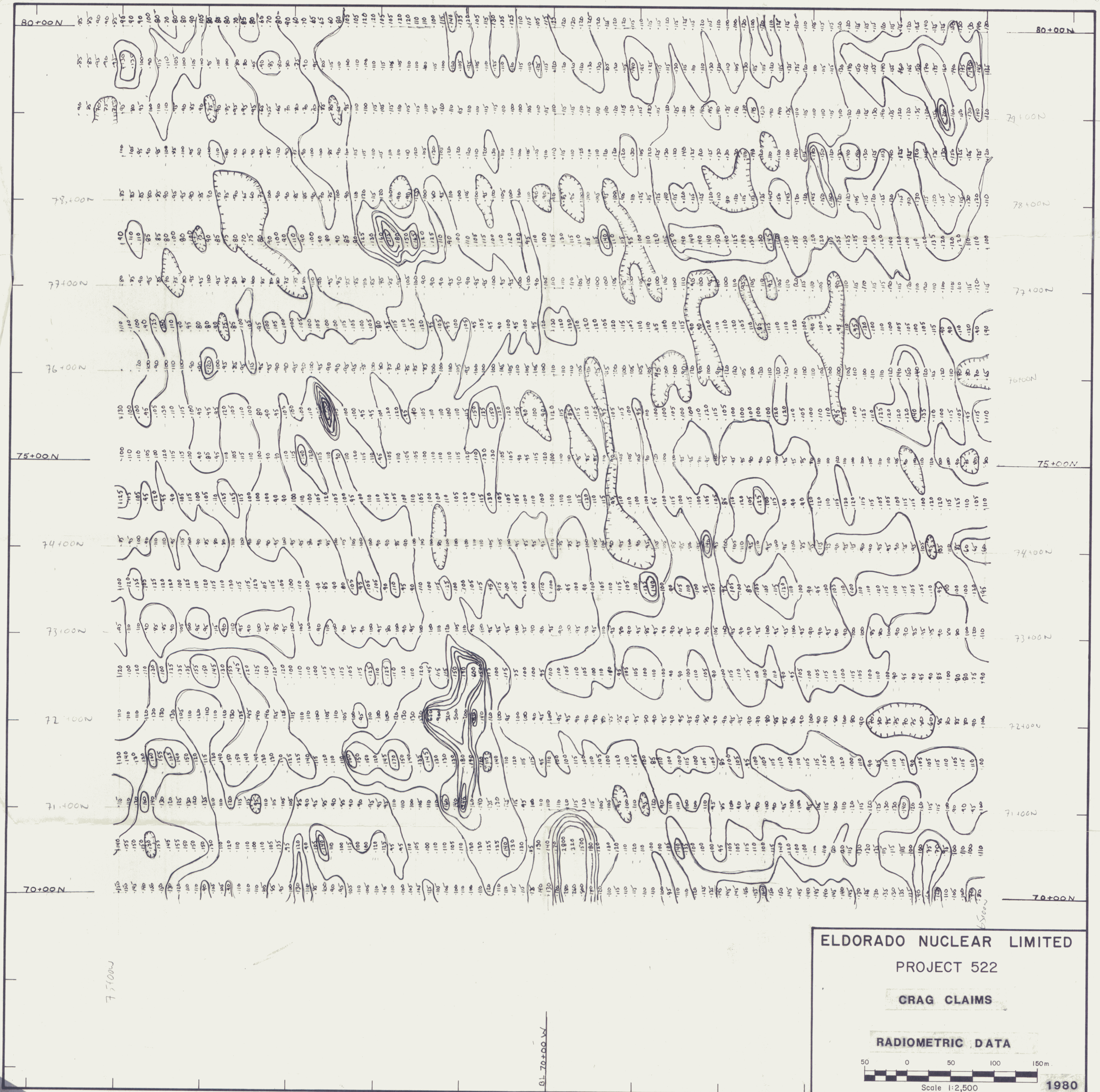
CRAG CLAIMS

GEOPHYSICS - RADIOMETRICS

50 0 50 100 150m

Scale 1:2,500

1980



ELDORADO NUCLEAR LIMITED

PROJECT 522

CRAG CLAIMS

RADIOMETRIC DATA

Scale 1:2,500

50 0 50 100 150m

1980