

Exploration Division



ASSESSMENT REPORT FOR HASL 1-40  
 MINERAL CLAIMS  
 DAWSON MINING DISTRICT Y.T.  
 CLAIM SHEET 115J/15



Lat. 62°58'N  
 November, 1980

Long. 138°50'W  
 W.J. Olsson  
 This report has been prepared by W.J. Olsson, a Geologist, and has been reviewed and approved by the Commission. It is submitted as representation work under the provisions of the Yukon Quartz Mining Act.

090679

Resident Mining Engineer  
 Resident Geologist or  
 Considered as representation work under  
 Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory



This report has been examined by the Geological Evaluation Unit and recommended to the Commission. The cost of representation work in the amount of \$ 2,400.00

*[Handwritten signature]*

Resident Geologist or  
Resident Mining Engineer

070020

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

*[Handwritten signature]*  
B. R. BAXTER  
Supervising Mining Recorder

*[Handwritten signature]*  
Commissioner of Yukon Territory

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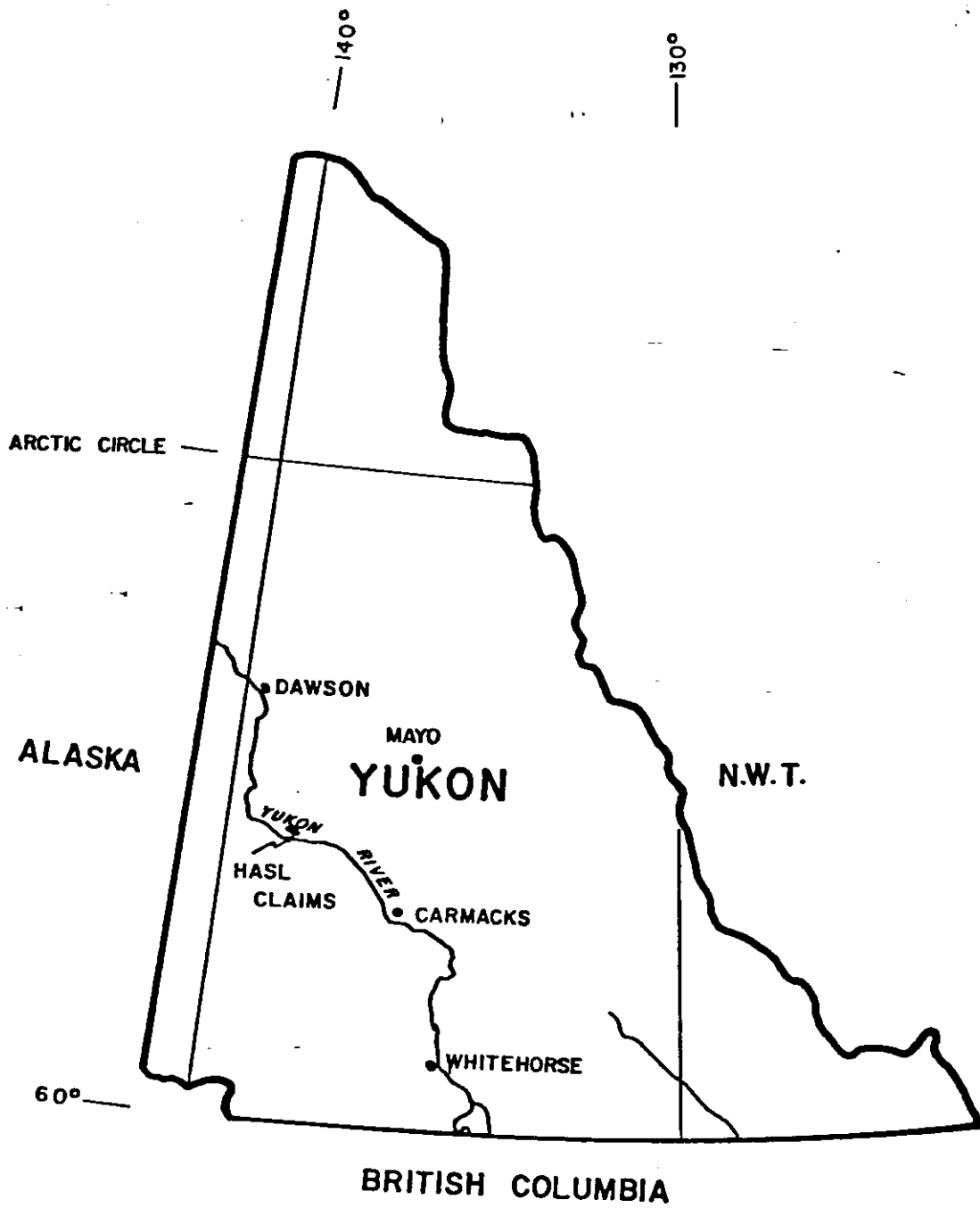


FIG. 1

ELDORADO NUCLEAR LIMITED

LOCATION MAP  
HASL CLAIMS

SCALE: 1" = 120 mi



## I GENERAL

### 1.1 Introduction

The HASL property is comprised of 118 quartz mineral claims situated at the headwaters of Pedlar Creek, straddling claim sheet areas 115J/15 and 1150/2. Mineral claims HASL 1 to 40 inclusive are contiguous and are located in the south central area of the property (see Figures 1 and 2).

Attention was brought to the area in 1977 following the analysis of stream sediment data. Follow-up work confirmed the presence of several anomalies and through the course of the 1977 field season, a total of 88 claims were staked. An additional 30 claims were added to the property in 1978.

### 1.2 Previous Work

The regional geology of map sheet area 115J was mapped by D.J. Tempelman-Kluit and reported in Geological Survey of Canada Paper 73-41 entitled "Reconnaissance Geology of Aishihik Lake, Snag and Part of Stewart River Map Areas, West Central Yukon".

Field investigations in 1977 carried out under the direction of Eldorado Nuclear Limited, located streams with highly anomalous silt and water samples. These streams drain a previously unmapped body of granite.

A total of 88 claims were staked in 1977. Subsequent ground delineated several soil geochemical anomalies. Intense airborne hound dogging over the granite located a one inch wide vein of mineralized material cutting the granite.

In 1978, the soil/radiometric work started in 1977 was extended to cover 60% of the property. Additional soil anomalies were delineated at this time and a geological map based on rock chip sampling, was drawn up.

During the 1979 field season, detailed soil and radiometric work was undertaken over the mineralized showing discovered in 1977. These results have been reported previously.

### 1.3 Claims

The HASL 1 to 118 mineral claims were staked in 6 steps. Initially, 8 claims were staked to cover the most anomalous area. Later, 16 claims were added to cover the drainage basin. A further 16 claims were added to the group along with an additional 40 claims following some limited reconnaissance work. Eight claims were added late in the 1977 season to cover the edge of the granite. In May of 1978, 30 claims were staked to cover a suspected extension to the granite. A list of grant numbers and expiry dates for the HASL claims is presented as Table 1.

TABLE I

CLAIM	GRANT NO.	EXPIRY DATE
HASL 1- 8	YA 10292- 99	24 June, 1980
HASL 9- 24	YA 10397-412	29 July, 1980
HASL 25- 40	YA 10513- 28	26 Aug., 1980
HASL 41- 80	YA 10551- 90	13 Sept., 1982
HASL 81- 88	YA 10744- 51	20 Sept., 1982
HASL 89-118	YA 29693-722	24 May, 1981

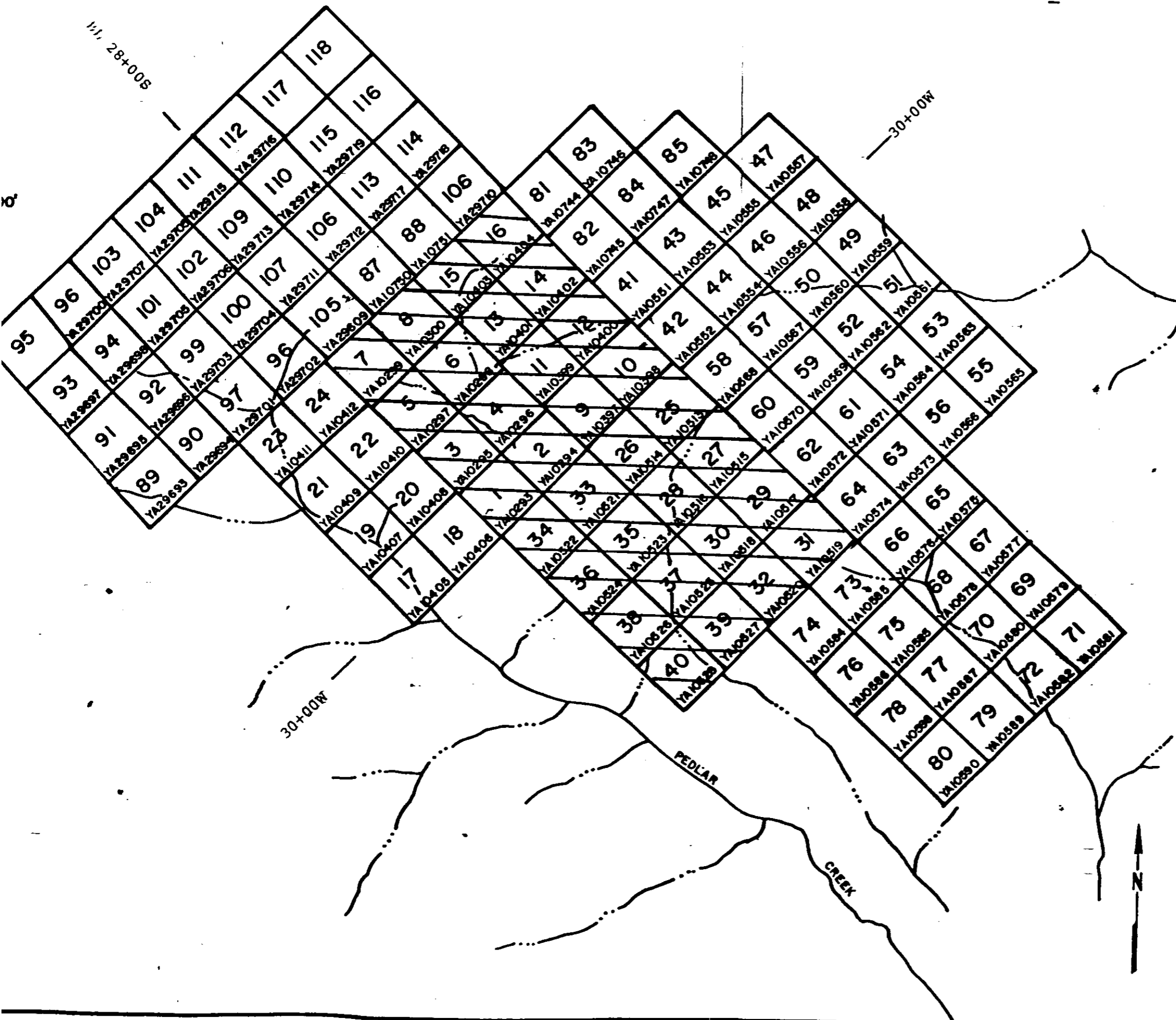
II 1980 ASSESSMENT WORK

2.1 Introduction

Due to the logistical costs involved with mobilizing to the HASL claim block, the assessment work required for HASL 1-40 in 1980 consisted of the re-analysis of soil samples taken in previous years, a detailed examination of a heavy mineral sample from HASL and the compilation of a report discussing the results.

Soils taken from HASL 1-40 in 1977 and 1978 have been stored at Chemex Labs in Vancouver, B.C. The splits were pulled and analysed for their thorium content in early 1980 using Delayed Neutron Activation. In addition, a heavy mineral split was submitted to Eldorado Nuclear's Research and Development section in order that the uranium-bearing minerals could be identified.

.....4



136°45'

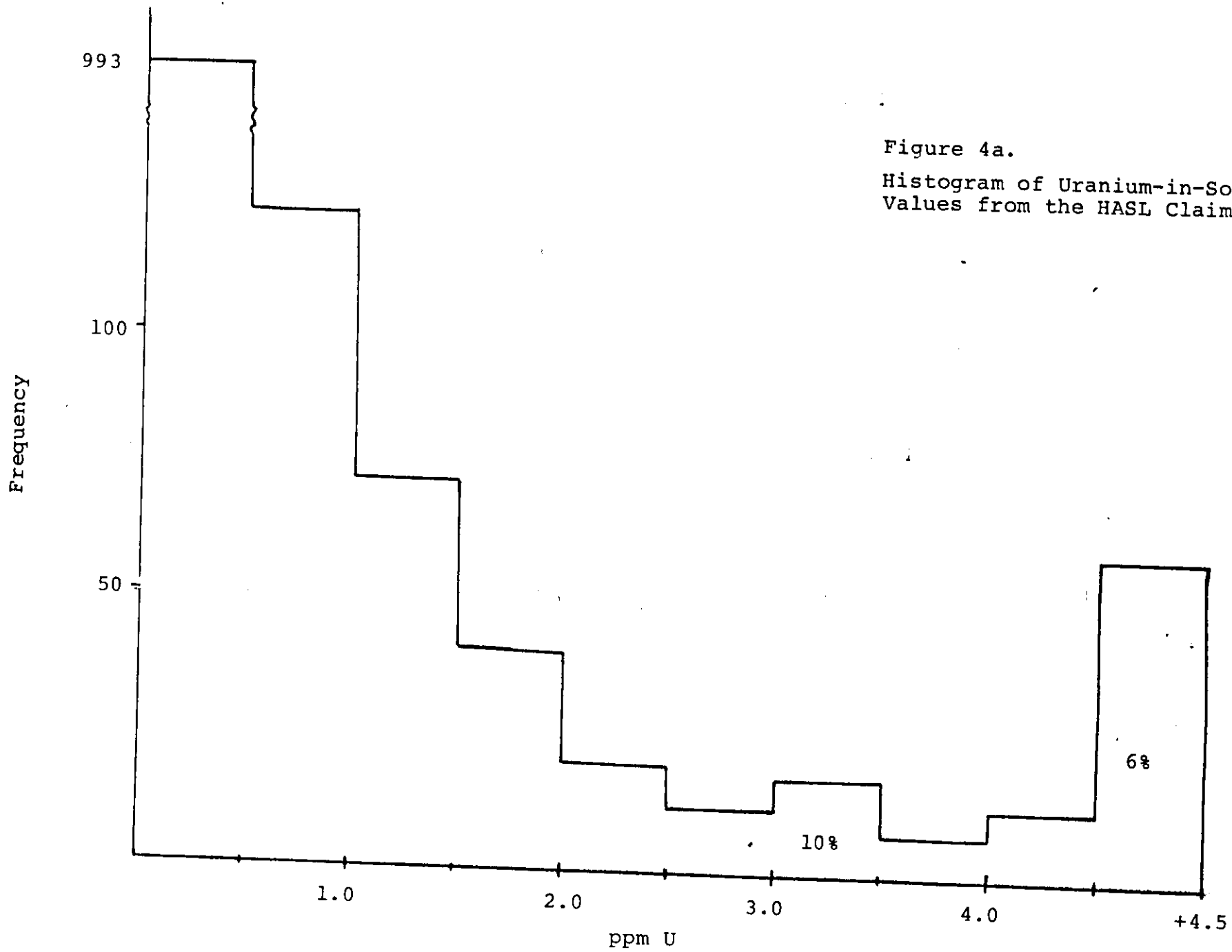
63°0'

ELDORADO NUCLEAR LTD  
 PROJECT 522

HASL CLAIMS  
 LOCATION MAP

AREA OF SURVEY

SCALE 1" = 1/2 MILE



## 2.2 Objectives

Soils were submitted for their thorium content in order to establish a relationship between the uranium content of soils and the thorium content. It was hoped zoning of high thorium anomalies uphill from the known uranium anomalies would indicate possible source areas for the uranium. In addition, the identification of the uranium-bearing mineral from the heavy mineral split would aid in understanding the provenance for the uranium in the area.

### III RESULTS

Figure 3a illustrates the distribution of the thorium-in-soils data. The same data is presented in contoured form as Figure 3b. Corresponding uranium values are presented as Figures 4a and 4b for the histogram and contoured format respectively.

As is evident by the histogram of the thorium-in-soils data, thorium values from HASL 1-40 follow a near normal distribution with a noticeable skewedness to the right. The mean value for the population is 13 ppm and the standard deviation is calculated as 11 ppm. Values above 35 ppm Th ( $\bar{X} + 2\sigma$ ) are considered to be anomalous and represent less than 5% of the data.

The average thorium value of 15 ppm is what is expected for a residual soil developed from a granitic complex. In fact the 13 ppm contour line running the length of the grid in the middle of the map corresponds close to the granite-gneiss contact (granite is to the north, gneiss is to the south).

Most values above 35 ppm Th appear sporadically as spot anomalies throughout the area in question. The one exception is the area about 25+00S, 35+00W where two larger anomalies lie close to one another on the eastern bank of the most anomalous stream cutting the HASL property. One of these anomalies is slightly north of and parallel to a uraniferous stream marking the granite-gneiss contact while the other is more square-shaped and lies 100 metres further north. Both anomalies are intricately associated with an area of extremely anomalous uranium-in-soil values but are located slightly offset from the uranium anomalies.

Although the association of the 2 thorium anomalies with uranium anomalies suggests a possible relationship exists between the two elements, a lack of thorium anomalies with other equally significant uranium anomalies tends to suggest the former case is due more to coincidence than to a common source.

The heavy mineral sample submitted to Eldorado Nuclear's research division was found to be comprised of magnetite (60%), sphene (20%), ilmenite (10%), augite (5%), olivine, garnet, apatite (all 1%) and traces of thorite, euxenite, zircon and epidote. The thorite is generally free and is comprised of rounded crystals. Locally it was observed to be enveloped by hematite. The uranium content of thorite is in excess of 10%. Phosphorous has replaced close to half the silicon content of the thorite. Euxenite appears as thin, euhedral, fragile crystal blades. Its uranium content is below 5%. The rounded nature of the thorite crystals suggests they were not derived locally but were transported some distance. On the other hand, the physical nature of the euxenite crystals strongly implies they were derived locally.

#### IV CONCLUSIONS

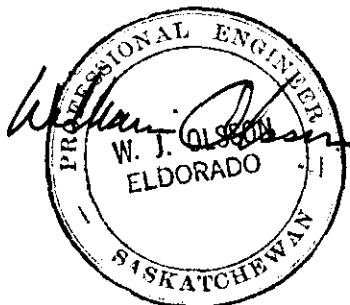
The following conclusions are based on the analytical results from the soil analyses and heavy mineral sample examination:

- (1) The thorium values in soil are representative of values expected in residual soils developed from an intrusive complex.
- (2) Apart from one extreme case, there is a lack of a noticeable relationship between the thorium-in-soil data and the uranium-in-soil data.
- (3) The euxenite crystals were derived in close proximity to where the heavy mineral sample was obtained whereas the thorite crystals have obviously been transported a fair distance.

#### V RECOMMENDATIONS

The only recommendation concerning further work on HASL that can be made as a result of the analytical work in 1980 is the following:

- (1) Detailed field sampling and examination of all major uranium anomalies be carried out to determine the origin of the uranium.



APPENDIX A  
CERTIFICATES OF ANALYSIS



# 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

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

ATTN: William Olsson

CERTIFICATE NO. 52754  
 INVOICE NO. 36018  
 RECEIVED May 5/80  
 ANALYSED June 3/80

SAMPLE NO. :	PPM
	Th
H 13001	27
13002	6
13003	4
13004	4
13005	5
13006	7
13007	7
13008	7
13009	4
13010	11
13011	6
13012	3
13013	7
13014	34
13015	6
13016	5
13017	6
13018	6
13019	6
13020	5
13021	6
13022	6
13023	6
13024	6
13025	16
13026	10
13027	6
13028	8
13029	5
13030	4
13031	5
13032	5
13033	4
13034	7
13035	6
13036	9
13037	14
13038	9
13039	8
13040	8

Com 1977 Archer Cathro Certs, No. 42184



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

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## CERTIFICATE OF ANALYSIS

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

ATTN: William Olsson

CERTIFICATE NO. 52755

INVOICE NO. 36018

RECEIVED May 5/80

ANALYSED June 3/80

SAMPLE NO. :	PPM
	Th
H 13041	5
13042	6
13043	7
13044	7
13045	7
13046	6
13047	11
13048	8
13049	17
13050	14
13051	5
13052	6
13053	9
13054	7
13055	6
13056	6
13057	7
13058	16
13059	11
13060	11
13061	8
13062	7
13063	8
13064	9
13065	7
13066	17
13067	13
13068	12
13069	11
13070	7
13071	6
13072	7
13073	7
13074	16
13075	27
13076	17
13077	44
13078	16
13079	22
13080	16

From 1977 Archer Cathro Cert. No. 42185



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*Hart Biddle*



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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52756

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13081	16
13082	12
13083	10
13084	22
13085	16
13086	15
13087	16
13088	24
13089	36
13090	8
13091	16
13092	18
13093	31
13094	12
13095	12
13096	11
13097	16
13098	47
13099	13
13100	11
13101	18
13102	10
13103	18
13104	24
13105	9
13106	7
13107	12
13108	14
13109	14
13110	12
13111	18
13112	19
13113	11
13114	28
13115	10
13116	22
13117	12
13118	9
13119	9
13120	21

From 1977 Archer Cathro Cert. No. 42186



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 CANADIAN TESTING  
 ASSOCIATION

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*Hart Biddle*



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 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

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## CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 52757

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM
	Th
H 13121	13
13122	12
13123	8
13124	13
13125	12
13126	12
13127	9
13128	11
13129	14
13130	13
13131	17
13132	19
13133	16
13134	26
13135	32
13136	12
13137	17
13138	12
13139	14
13140	6
13141	4
13142	20
13143	18
13144	16
13145	10
13146	14
13147	8
13148	7
13149	14
13150	11
13151	26
13152	14
13153	37
13154	15
13155	14
13156	7
13157	2
13158	6
13159	6
13160	24

From 1977 Archer Cathro Cert. No. 42187



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

CERTIFIED BY:

*Hart Bickle*



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 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52758

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13161	10
13162	13
13163	20
13164	11
13165	9
13166	4
13167	6
13201	45
13202	36
13203	22
13204	32
13205	50
13206	25
13207	20
13208	17
13209	24
13210	23
13211	30
13212	22
13213	33
13214	34
13215	21
13216	11
13217	72
13218	8
13219	11
13220	78
13221	27
13222	20
13223	15
13224	24
13225	17
13226	22
13227	17
13228	16
13229	14
13230	47
13231	10
13232	76
13233	29

From 1977 Archer Cathro Certs. No. 42188 and 42189



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 CANADIAN TESTING  
 ASSOCIATION

CERTIFIED BY:

*Hart Biddle*



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212 BROOKSBANK AVE.  
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 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52759

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM
	Th
H 13234	13
13235	17
13236	21
13237	34
13238	33
13239	17
13240	14
13241	17
13242	23
13243	15
13244	15
13245	16
13246	28
13247	16
13248	15
13249	38
13250	12
13251	6
13252	6
13253	15
13254	20
13255	21
13256	20
13257	29
13258	12
13259	24
13260	17
13261	12
13262	14
13263	13
13264	18
13265	15
13266	28
13267	18
13268	10
13269	6
13270	5
13271	5
13272	6
13273	24

From 1977 Archer Cathro Certs. No. 42189 and 42190



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CERTIFIED BY: *Hart Biddle*



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 AREA CODE: 604  
 TELEX: 04-352597

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## CERTIFICATE OF ANALYSIS

TO: Eldorado Nuclear Ltd.,  
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 Ottawa, Ont. K1P 6A9

CERTIFICATE NO. 52760  
 INVOICE NO. 36018  
 RECEIVED May 5/80  
 ANALYSED June 3/80

ATTN: William Olsson

SAMPLE NO. :	PPM
	Th
H 13274	11
13275	16
13276	17
13277	11
13278	9
13279	13
13280	28
13281	14
13282	14
13283	7
13284	12
13285	13
13286	11
13287	12
13288	5
13289	5
13290	7
13291	8
13292	7
13293	9
13294	6
13295	15
13296	10
13297	10
13298	6
13299	6
13300	8
13301	6
13302	7
13303	6
13304	9
13305	9
13306	6
13307	6
13308	6
13309	17
13310	7
13311	14
13312	40
13313	25

From 1977 Archer Cathro Certs. No. 42190 and 42191



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 ASSOCIATION

CERTIFIED BY:

*Hart Biddle*



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212 BROOKSBANK AVE.  
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 CANADA V7J 2G1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52761

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13314	29
13315	11
13316	16
13317	16
13318	16
13319	46
13320	27
13321	44
13322	6
13323	6
13324	5
13325	8
13326	7
13327	4
13328	5
13329	5
13330	15
13331	31
13332	19
13333	10
13334	28
13335	5
13336	7
13337	5
13338	5
13339	5
13340	5
13341	6
13342	5
13343	7
13344	32
13345	32
13346	13
13347	18
13348	30
13349	23
13350	13
13351	30
13352	21
13401	22

From 1977 Archer Cathro Certs. No. 42191 and 92 and 93



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

CERTIFIED BY:

*Hart Biddle*



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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. 52762

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13402	14
13403	11
13404	21
13405	23
13406	29
13407	22
13408	11
13409	31
13410	23
13411	20
13412	21
13413	21
13414	18
13415	17
13416	17
13417	19
13418	16
13419	10
13420	19
13421	12
13422	14
13423	12
13424	10
13425	22
13426	32
13427	12
13428	10
13429	10
13430	18
13431	14
13432	24
13433	23
13434	9
13435	12
13436	6
13437	6
13438	11
13439	6
13440	27
13441	7

From 1977 Archer Cathro Certs. No. 42193 and 42194



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

CERTIFIED BY:

*Hart Biddle*



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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. 52763

TO: Eldorado Nuclear Ltd.,  
 Ste. 400 - 255 Albert St.,  
 Ottawa, Ont.  
 K1P 6A9  
 ATTN: William Olsson

INVOICE NO. 36018

RECEIVED May 5/80

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13442	6
13443	8
13444	7
13445	7
13446	5
13447	6
13448	6
13449	35
13450	26
13451	30
13452	20
13453	15
13454	33
13455	33
13456	19
13457	18
13458	28
13459	14
13460	38
13461	21
13462	13
13463	14
13464	14
13465	10
13466	16
13467	18
13468	17
13469	21
13470	9
13471	9
13472	12
13473	16
13474	14
13475	14
13476	11
13477	14
13478	23
13479	15
13480	13
13481	23

From 1977 Archer Cathro Certs No. 42194 and 42195



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.52764

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

INVOICE NO. 36018

RECEIVED May 5/80

ATTN: William Olsson

ANALYSED June 3/80

SAMPLE NO. :	PPM
	Th
H 13482	15
13483	7
13484	7
13485	5
13486	7
13487	8
13488	7
13489	7
13490	6
13491	5
13492	8
13493	7
13494	7
13495	6
13496	6
13497	8
13498	5
13499	5
13500	6
13501	9
13502	7
13503	7
13504	8
13505	7
13506	6
13507	6
13508	7
13509	7
13510	8
13511	6
13512	7
13513	36
13514	26
13515	21
13516	23
13517	16
13518	13
13519	21
13520	9
13521	19

From 1977 Archer Cathro Certs. No. 42195 to 96



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

TO: Eldorado Nuclear Ltd.,  
 Ste. 400 - 255 Albert St.,  
 Ottawa, Ont.  
 K1P 6A9  
 ATTN: William Olsson

CERTIFICATE NO. 52765

INVOICE NO. 36018

RECEIVED May 5/80

ANALYSED June 3/80

SAMPLE NO. :	PPM Th
H 13522	14
13523	13
13524	12
13525	32
13526	11
13527	19
13528	12
13529	53
13530	14
13531	14
13532	15
13533	17
13534	15
13535	15
13536	10
13537	14
13538	23
13539	12
13540	26
13541	21
13542	22
13543	Missing
13544	Missing
13545	Missing
13546	Missing
13547	Missing

From 1977 Archer Cathro Certs. No. 42196 to 97.



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. 52773

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

INVOICE NO. 36018

RECEIVED May 5/80

ANALYSED June 3/80

ATTN: William Olsson

SAMPLE NO. :	PPM
	Th
100219	23
100221	14
100222	9
100223	9
100224	5
100225	Missing
100226	35
100232	28
100233	Missing
100234	24
100235	23
100236	24
100237	15
100238	4
101558	20
101559	10
101560	12
101561	12
101562	8
101563	16
100805	11
100807	14
100811	9
100813	11
100814	9
100828	7
100830	11
100832	9
100833	8
100835	8
100837	7
100839	12
100841	7
100843	9
100845	9
100847	9
100849	33
100851	15
100853	11
100855	8

From 1978 Eldorado Certs. #43117 -18, 43177,43305.



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. 52774

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

INVOICE NO. 36018

RECEIVED May 5/80

ANALYSED June 3/80

ATTN: William Olsson

SAMPLE NO. :	PPM Th
101264	13
101356	19
101424	14
101426	19
101428	24
101430	8
101432	12
101434	11
101436	14
101438	13
101440	14
101446	14
101448	7
101450	7
101452	9
101454	16
101455	18
101457	12
101459	13
101461	20
101463	7
101465	27
101467	21
101469	72
101930	31
101932	40
101934	13
101935	45
101937	17
101939	10
101941	11
101944	Missing
101945	26
102797	31
102836	30
102839	21
102842	23
102845	11
102847	7
102849	14

From 1978 Eldorado Certs. No. 43307,43305,43308,43310,43313,43314



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

TO: Eldorado Nuclear Ltd.,  
 Ste. 400 - 255 Albert St.,  
 Ottawa, Ont.  
 K1P 6A9  
 ATTN: William Olsson

CERTIFICATE NO. 52775  
 INVOICE NO. 36018  
 RECEIVED May 5/80  
 ANALYSED June 3/80

SAMPLE NO. :	PPM Th
102851	18
102853	Previously pulled
102855	54
102857	39
102860	55
102863	16
102865	11
102867	10
102869	19
102871	21
102873	10
102874	43
102875	34
102877	9
102878	11
102879	15
102881	26
102883	8
102885	15
102886	16
102888	7
102902	7
102904	17
102906	17
102908	33
102909	24
102911	15
103242	4
103244	Missing
103246	Missing
103248	Missing
103361	9
103362	10
103364	10
103366	56
103368	15
103370	11
103378	9
103379	11
103380	11

From 1978 Eldorado Certs. No. 43314, 43315, 43187, 43316, 43317



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. 52776

TO: Eldorado Nuclear Ltd.,  
 Ste. 400 - 255 Albert St.,  
 Ottawa, Ont.  
 K1P 6A9  
 ATTN: William Olsson

INVOICE NO. 36018  
 RECEIVED May 5/80  
 ANALYSED June 3/80

SAMPLE NO. :	PPM Th
103382	14
103384	Previously Pulled
103386	28
103387	9
103388	25
103390	35
103392	16
103394	11
103396	23
103397	15
103398	30
103400	11
103655	13
103657	12
103659	8
103661	14
103663	12
103665	10
103679	37
103681	84
103687	20
103689	12
103691	15

From 1978 Eldorado Certs No. 43317, 43319.



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

CERTIFIED BY:

*Hart Biddle*

APPENDIX B.  
COST STATEMENT

STATEMENT OF EXPENDITURES

HASL 1-40

1980

Analytical Charges	\$2,384.00
Research & Development Invoice	576.86
Data Compilation and Report Writing 5 days at \$225/day	1,125.00
	<hr/>
TOTAL	\$4,085.86



# INVOICE

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

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

CERTIFICATE NO. 52754-65,73-76

INVOICE NO. 36018

ATTN: William Olsson

DATE June 4/80

	DESCRIPTION	SUB-TOTAL	TOTAL
596	Analyzed for Thorium @ \$5.00 No prep. charge	\$2980.00 596.00	
			\$2384.00

*Copy*

EXPLORATION  
DIVISION  
JUN 10 1980

TERMS—NET 30 DAYS

78-040

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

**ELDORADO**

ELDORADO NUCLEAR LIMITED


INTER-OFFICE

Date July 24, 1980To: D.M. Ward, ExplorationFrom: D.J. McIntyreSubject: R & D Time Re: Project 522 - HASL Claims

The following time has been spent on your joint venture Project 522 up until June 1, 1980.

Professional	22.5 hours @	\$20.51	\$461.48
Technical	4 hours @	12.82	51.28
Sem Operator	5 hours @	12.82	<u>64.10</u>
			\$576.86

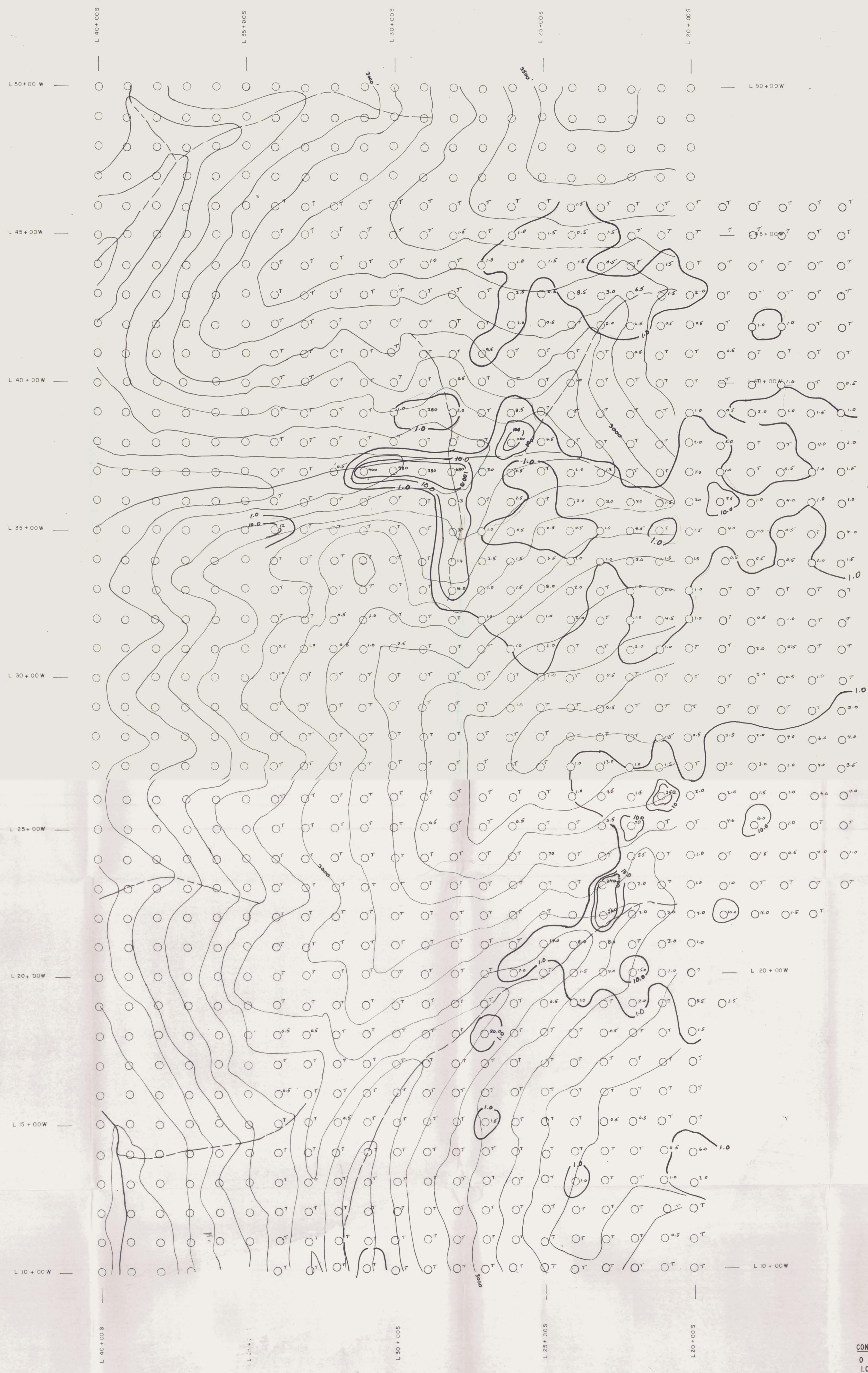
Please arrange for payment of this account.


  
 \_\_\_\_\_  
 Dan J. McIntyre

EXPLORATION  
DIVISION

JUL 25 1980

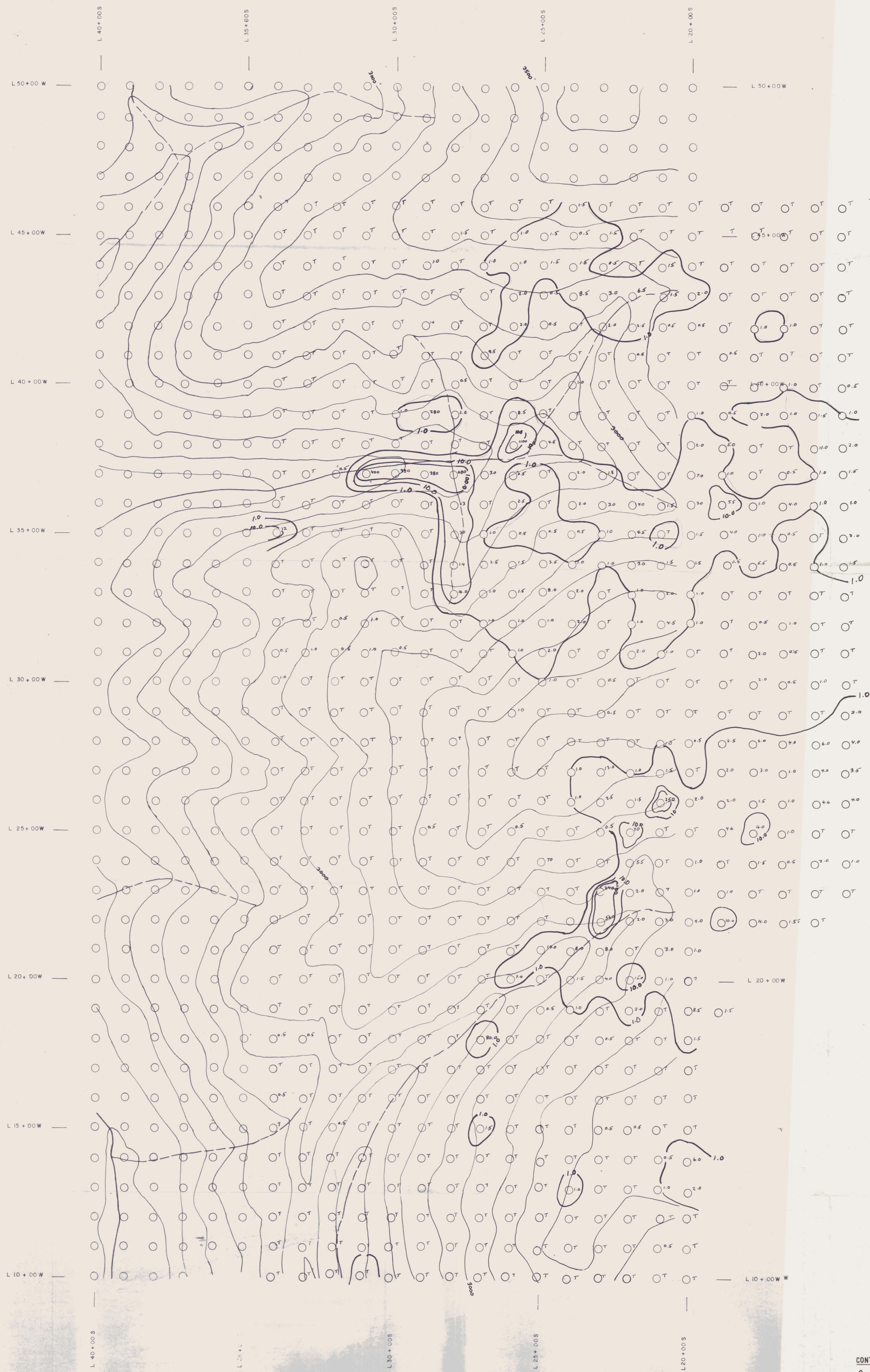
DJM/ds



CONTOUR INTERVAL  
 0 - 1.0 ppm U  
 1.0 - 10.0 ppm U  
 10.0 - 100.0 ppm U  
 + 100.0 ppm U

ELDORADO NUCLEAR LIMITED  
 PROJECT 522  
 HASL 1-40 CLAIMS  
 SOIL GEOCHEMISTRY-URANIUM  
 ppm U

Scale 1:5,000 1980



ELDORADO NUCLEAR LIMITED  
 PROJECT 522  
 HASL 1-40 CLAIMS  
 SOIL GEOCHEMISTRY-URANIUM  
 ppm U

CONTOUR INTERVAL  
 0 - 1.0 ppm U  
 1.0 - 10.0 ppm U  
 10.0 - 100.0 ppm U  
 + 100.0 ppm U

Scale 1:5,000