AUG 1 1978

C. A. AGER & ASSOCIATES LTD.

Telephone (604) 536-1154

CONSULTING GEOPHYSICISTS

15423 34th Ave.
Surrey, B.C. Canada
V3S 4N7

GRAVITY AND E M SURVEY

LEACH - FAULT - CZAR CLAIMS

SUMMARY

This report presents the results of the gravity and EM survey work over the Leach-Fault-Czar claims, Pelly Banks area, Yukon Territory. The EM work indicates that the rock units underlying the survey area are highly conductive which implies graphite ± sulphides. The gravity outlined four small amplitude gravity high residuals which form an arcuate feature around the central zone of high conductivity. The correlation of gravity, EM and Zn geochemical results indicates that diamond drilling is warranted. Six drill holes are recommended with co-ordinates and depths given in this report.

Respectfully submitted,

Charles A. Ager

Charles A. Ager, PhD, PEng
Geophysicist

July 25, 1978

090383

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LIST OF FIGURES

LOCATION, DATE OF WORK, CREW

Location: Leach 17-18, Leach 57-63, Czar 3-8 Claims

Watson Lake Mining District

Pelly Banks Area, Yukon Territory

NTS 105G/14

61°54.2' N Lat by 131°20' W Long

Date of Work:

Field Work; April 1-April 8, 1978
June 5 - June 8, 1978

Office Work; July 1 -July 25,1978

Crew:

J.G. Ager, BSc, party chief (gravity)

R.J. Englund, BSc, party chief (CEM)

A. Dryver, geophysical operator

J. Sheldon, field assistant

L. Grant, field assistant

M. Faucher, field assistant

G. Ager, cook

C.A.Ager, PhD,PEng, data interpreter

INTRODUCTION

At the request of Mr Sandy MacLean, DuPont of Canada Exploration Ltd, an exploratory gravity and EM survey were conducted over a part of the Leach-Fault-Czar Claims, Pelly Banks area, Yukon Territory. The intent of the geophysical work was to delineate areas of excess mass and conductivity which may indicate the presence of massive Pb-Zn mineralization within the underlying phyllitic (?) units. The grid was centered over a previously discovered Zn soil geochemical anomaly (Ikona and Stammers, 1977).

The property is situated some 13 kilometers (8 miles) northwest of Pelly Banks, on the north side of the Pelly River, Yukon Territory (Figures 1 and 2). The geographic co-ordinates of the center of the survey area are 61°54.2' N Latitude by 131°20' W Longitude. The grid is located on the southern slope of a small hill at elevation ranging between 3100 - 3400 feet (945-1035 meters). Access is by winter road from the Campbell Highway on the west side of Big Campbell Creek, or by helicopter from Ross River, Y.T.

INSTRUMENTATION & SURVEY PROCEDURE

Gravity observations were made using a LaCoste & Romberg Model G gravity meter (serial number G209) with reading accuracy of ±0.01 mgals. All gravity readings were within the dial range 5100-5200 for which the dial constant is 1.06062 mgals/division. Instrument and diurnal drift were accounted for by tying into known base stations within three hour intervals.

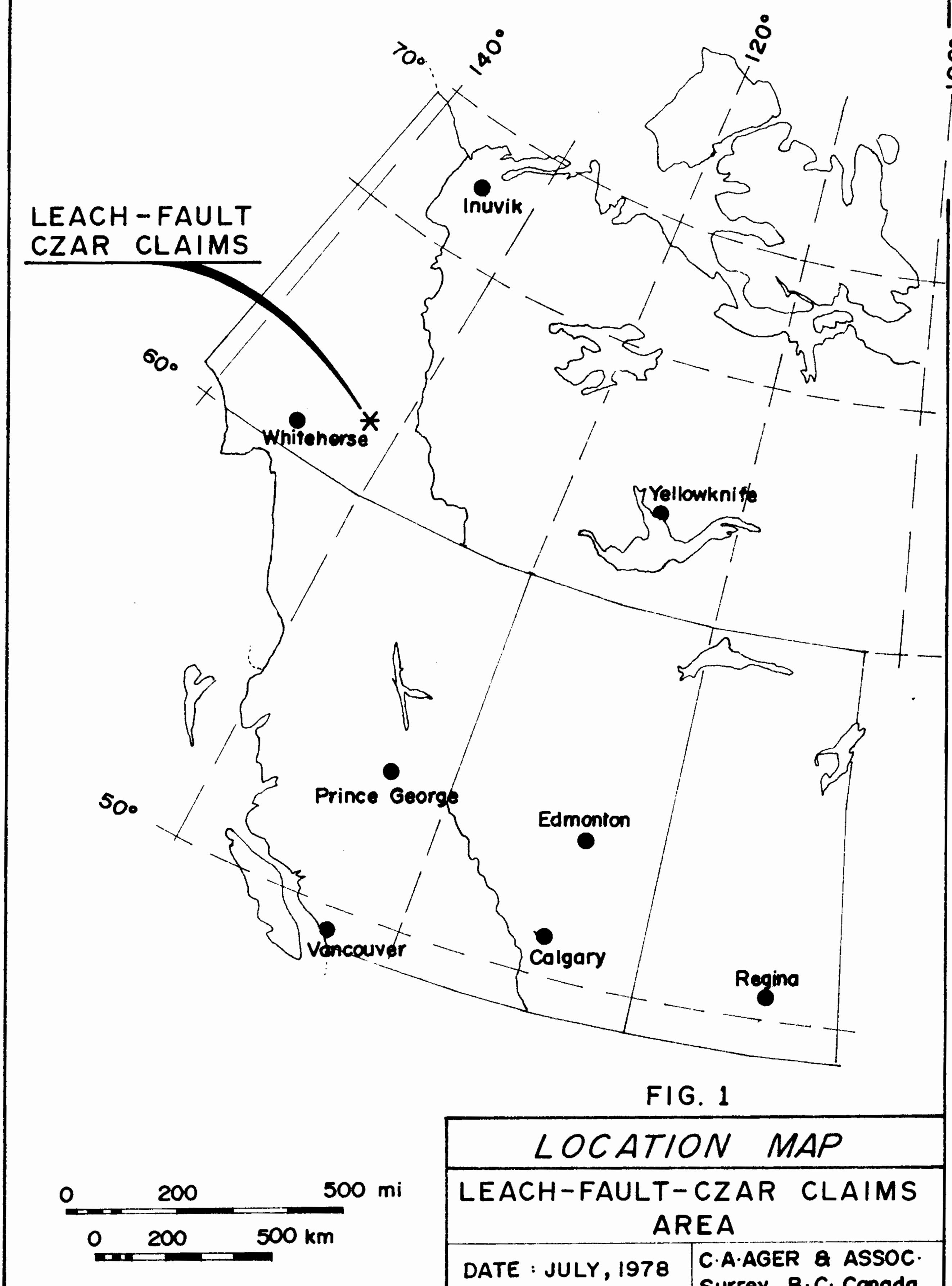


FIG. 1

LOCATION MAP	
LEACH-FAULT-CZAR CLAIMS AREA	
DATE : JULY, 1978	C·A·AGER & ASSOC· Surrey B·C· Canada

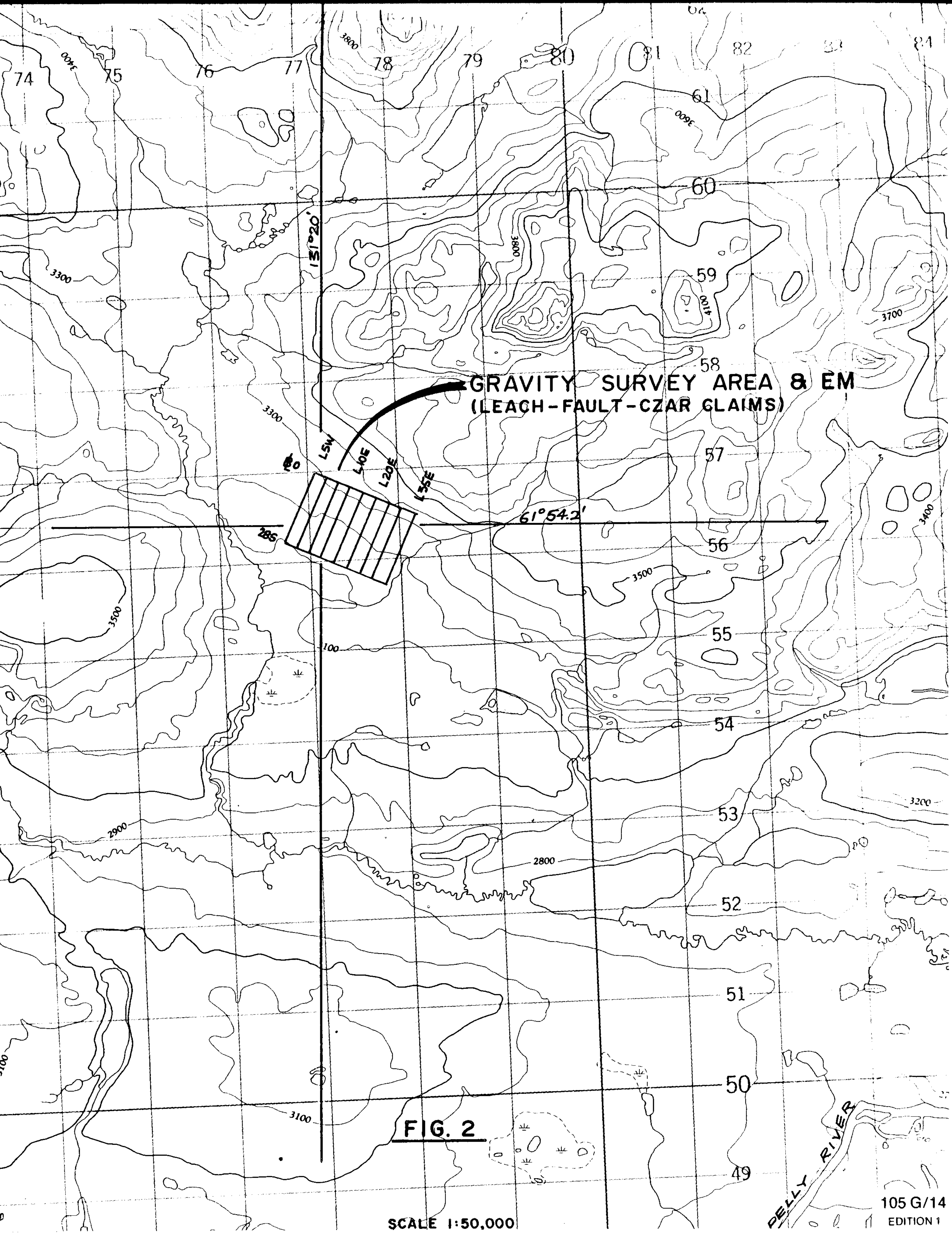

GRAVITY SURVEY AREA & EM
(LEACH-FAULT-CZAR CLAIMS)
131°20'
61°54.2'
L5W
L10E
L20E
L35E
28S
PELLY RIVER
SCALE 1:50,000
105 G/14
EDITION 1

FIG. 2

Gravity stations were located at 30 and 60 meter (100 and 200 ft) intervals along lines spaced 150 meters (500 ft) apart as shown on Figure 3. Elevations were measured to the top of pickets at ground level using an electronic level developed by Ager & Associates Ltd. Relative elevations are considered accurate to ±0.03 meters (±0.10 ft) between stations. The elevation reference for the survey was station L35E+30S. It was assigned the value 3160.00 ft (963.16 meters) as picked from 1:50,000 NTS map sheet 105G/14. The elevations so determined for the survey grid are relative to this base value (Figure 3).

The gravity survey is referenced to a permanent base station (GB78-2) located on the Pelly Banks Syndicate ground some 6 miles east-southeast of the property. The station is marked by a four foot high post located on the east side of the access road on the west bank of the Pelly River at Slate-Reno grid co-ordinates BL0+550E. The temporary base used for the Leach-Fault-Czar grid is the base of the claim post at station L35E+30S. The absolute value of gravity for the permanent base (GB78-2) was determined by ex-centre tyes to the National Network station at Whitehorse, Y.T. A complete listing of the data is given in Appendix A.

An electromagnetic (EM) survey was conducted over the same grid using the Crone shootback system in the horizontal loop mode of operation. Coil spacing was 400 feet (120 meters) with station intervals of 30-60 meters. The medium frequency of 1830 hz was used for the whole grid. Detailing of some anomalies were done using high (5010 hz) and low (390 hz) frequencies and coil separations of 200, 400 and 600 feet (60, 120 and 180 meters). The resultant dip angles were determined by summing the shootback responses with vertical being 0°. (Refer to Appendix B for a listing of results).

DATA REDUCTION

As is well known, the observed gravity values (g_O) contain much information of non-interest in mining exploration. Simply stated, the problem is to separate the effects of the earth (g_E) from the observed gravity field. The map of interest, the Complete Bouguer Gravity Map (Δg_{CB}) is defined as follows:

$$\Delta g_{CB} = g_O - g_E \qquad (1)$$

where

$$g_E = g_L + g_{FA} + g_{BS} + g_T \qquad (2)$$

g_L: Latitude effect; g_{FA}: Free Air effect; g_{BS}: Bouguer Slab effect; g_T: Terrain effect

Using standard procedures, the Complete Bouguer Gravity Map (Figure 4) was calculated from equations 1 and 2 above. Terrain effects were calculated to a radius of 1800 feet (550 meters) about each station using computer techniques of Ager & Associates Ltd.

Bouguer slab and terrain densities were taken to be 2.80 g/cc which is the average density for phyllitic rocks within the area of the survey. The complete Bouguer gravity values are all relative to station L35E+30S which was assigned an arbitrary value of 257.86 mgals (Figure 4).

Computer and graphical techniques were used to generate the residual gravity map (Figure 5). It is this map which is most indicative of local density changes within the underlying rocks.

The CEM data is presented in profile form on Figure 6 and given in contour format on Figure 7. No additional processing was done to this data and it is interpreted directly.

INTERPRETATION OF RESULTS

The intent of the survey work was to outline gravity high anomalies within conductive environments. Inspection of the gravity and EM maps indicate the following:

1) The regional gravity field strikes east-west and has a gradient of about +0.50 mgals/1000 feet north. This is taken to indicate the general strike of the geological units underlying the survey area. In the northwestern part of the grid, the fabric of the units appears to change to a more northerly trend.

2) There are four gravity high residuals ranging in amplitude from +0.10 to +0.30 mgals. These anomalies form an arcuate trend about a zone of gravity low features of amplitudes to -0.30 mgals within the central area of the survey grid (Figure 5).

3) The EM maps indicate that essentially the whole grid overlies a very conductive host rock unit as evidenced by the very large negative dip angles of -60 to -140 degrees. It is difficult to put much importance on the two zones of apparently less conductive rock centered at about 2S on lines 10E and 30E. These features appear to be caused by a less conductive rock unit (eg. a dyke) which is dipping to the north. However, within such a highly conductive environment, there are cases where features similar to these have been caused by a near vertical high conductive source such as massive sulphides.

4) By comparing the gravity and CEM results with the Zn geochemical information further interpretations can be made (Figure 8). Here we observe that a gravity low region coincides fairly well with the high Zn geochemical data and with the very low (-100°) dip angles. This indicates that the common source rock is highly conductive, is less dense than phyllites and is high in zinc. The obvious candidate is a graphitic rock unit.

5) The gravity high residuals peripherial to the 'graphitic unit' are most likely caused by a heavier rock unit overlaying the more graphitic unit. Excess masses and total tonnages associated with these features are summarized in the following table:

Anomaly Name	Co-ordinates of center	Excess Mass	Total Tonnage 3.00 g/cc rock	Total Tonnage 4.00 g/cc rock
A	L15E+23S	0.676 mt	9.46 mt	1.55 mt
B	L0+10S	0.425 mt	5.95 mt	0.98 mt
C	L35E+5S	0.200 mt	2.80 mt	0.46 mt
D	L5E+20S	0.170 mt	2.40 mt	0.39 mt

note: mt = million tons

6) Depths to center of mass for these anomalies are hard to determine due to the lack of ground truth information on the densities of the surface rocks. However, each feature appears to be within 500 feet (160 meters) of the surface.

RECOMMENDATIONS & CONCLUSIONS

Based strictly on the geophysical and geochemical data, six vertical drill holes to a minimum depth of 500 feet are recommended at the following co-ordinates for the reasons given:

Drill Hole No.	Co-ordinates	Reason
1	L20E+8S	-150° CEM conductor Zn geochem high
2	L20E+12S	Zn geochem high -100° CEM conductor
3	L20E+18S	Zn geochem high -100° CEM conductor
4	L15E+23.5S	+0.30 mgal gravity high -115° CEM conductor
5	L0+10S	+0.20 mgal gravity high -100° CEM conductor
6	L30E+2S	-20° CEM conductor flanks of +0.20 gravity high

The above holes, when drilled, will most certainly indicate the economic potential of the area surveyed. It should be kept in mind as well that the gravity high features are open to the west and to the east where further work may be warranted pending the results of the drilling.

Respectfully submitted,

Charles A. Ager, PhD, PEng

July 25, 1978

Geophysicist

REFERENCES

Ikona, C.K., Stammers, M. (1977). Geological and geochemical report on the leach-fault mineral claims for Brendex Resources Ltd, October 1977.

CERTIFICATE OF QUALIFICATIONS

I, Charles A. Ager, do hereby certify that:

(1) I am a practising geophysicist with offices and residence at 15423 34th Avenue, Surrey, B.C., Canada.

(2) I have received the following university degrees:

(a) 1968 B.A. (Honours Math/Physics)
California State University, Sacramento, Calif.

(b) 1972 M.Sc. (Applied Geophysics)
University of B.C., Vancouver, B.C.

(c) 1975 Ph.D. (Applied Geophysics)
University of B.C., Vancouver, B.C.

(3) I am a member in good standing of the following professional organizations: (a) B.C. Geophysical Society
(b) Society of Exploration Geophysicists
(c) Association of Professional Engineers of the Province of British Columbia

(4) Since 1968 I have been engaged in exploration and mining geophysics over numerous projects in western North America and eastern Canada.

(5) The geophysical field work and the interpretation of the results in this report were done under my direct supervision.

Charles A Ager

July 25,1978

Charles A. Ager, PhD, PEng
Geophysicist

COST STATEMENT

The following is a cost statement of expenses incurred by DuPont of Canada Exploration Ltd in regard to the gravity and CEM survey work over the Leach 17-18, Leach 57-64 and Czar 3-8 mineral claims, Pelly Banks area, Watson Lake Mining District, Yukon Territory:

Gravity Survey Costs

Elevations to ±0.03 meters
Observed gravity to ±0.01 mgals
Terrain calculations to 550 meters
Regional-residual anomaly maps
Rock density measurements
Field and final maps
Interpretation of results
Report.........

4.3 line miles (60m stations) x $550	$2354.00	
1.8 line miles (30m stations) x $750	1350.00	$3704.00

CEM Survey Costs

Horizontal loop shootback, medium frequency, 400ft coils
Anomaly detailing, high-med-low frequency,200-600' coils
Profile and plan maps
Interpretation of results
Report.........

6.3 line miles x $300	1890.00
Total cost	$5594.00

APPENDIX A Leach-Fault-Czar Gravity Data

GB 78-2: Observed Gravity = 88.22 mgals (relative)
= 981,747.08 mgals (absolute)

Bouguer Density = 2.80 g/cc
Elevation Factor = 0.0583 mgal/ft = 0.19128 mgal/meter

Station Coord. (100's feet)		Elevation (feet)	Observed Gravity (mgal)	C.Bouguer Gravity (mgal)
L0500W	2800S	3095.38	67.98	258.99
L0500W	2600S	3101.66	67.92	259.27
L0500W	2400S	3109.20	67.72	259.49
L0500W	2200S	3119.61	67.29	259.65
L0500W	2000S	3135.97	66.45	259.73
L0500W	1800S	3150.68	65.74	259.85
L0500W	1600S	3166.35	64.92	259.91
L0500W	1400S	3186.89	63.76	259.92
L0500W	1200S	3202.67	63.07	260.10
L0500W	1000S	3215.05	62.40	260.10
L0500W	800S	3222.82	61.99	260.09
L0500W	600S	3229.36	61.56	260.02
L0500W	400S	3242.60	60.74	259.97
L0500W	200S	3258.53	59.83	259.98
L0500W	000	3278.40	58.71	259.98
L0000	2800S	3099.55	67.72	259.03
L0000	2600S	3107.84	67.35	259.11
L0000	2400S	3117.42	66.99	259.28
L0000	2200S	3130.37	66.42	259.45
L0000	2000S	3145.54	65.58	259.46
L0000	1800S	3160.77	64.93	259.66
L0000	1600S	3173.64	64.32	259.76
L0000	1400S	3189.30	63.50	259.82
L0000	1200S	3204.82	62.70	259.89
L0000	1000S	3216.25	62.23	260.04
L0000	800S	3226.59	61.60	259.98
L0000	600S	3234.49	61.04	259.86
L0000	400S	3249.04	60.20	259.86
L0000	200S	3269.50	58.98	259.83
L0000	000	3288.81	57.74	259.68
L0500E	2800S	3106.78	67.12	258.92
L0500E	2600S	3118.06	66.45	258.86
L0500E	2400S	3131.53	65.85	259.02
L0500E	2200S	3146.59	65.21	259.23
L0500E	2000S	3161.56	64.55	259.40
L0500E	1800S	3175.19	63.85	259.42
L0500E	1600S	3182.68	63.10	259.09
L0500E	1400S	3194.89	62.53	259.20
L0500E	1200S	3207.37	62.06	259.42
L0500E	1000S	3217.80	61.63	259.56
L0500E	300S	3227.23	61.13	259.60
L0500E	600S	3238.62	60.43	259.55
L0500E	400S	3255.05	59.42	259.51
L0500E	200S	3277.41	58.02	259.41
L0500E	000	3299.53	56.78	259.43
L1000E	2800S	3116.47	66.28	258.70

L1000E	2600S	3129.95	65.49	258.67
L1000E	2400S	3143.35	64.79	258.69
L1000E	2200S	3156.58	64.25	258.88
L1000E	2000S	3169.49	63.63	258.98
L1000E	1800S	3182.15	63.02	259.06
L1000E	1600S	3192.18	62.48	259.07
L1000E	1400S	3203.29	61.91	259.11
L1000E	1200S	3213.90	61.42	259.20
L1000E	1000S	3223.40	61.04	259.36
L1000E	800S	3231.56	60.66	259.43
L1000E	600S	3242.47	60.11	259.53
L1000E	400S	3258.81	59.08	259.49
L1000E	200S	3287.10	57.26	259.32
L1000E	000	3311.74	55.91	259.37
L1500E	2800S	3119.06	65.98	258.58
L1500E	2700S	3129.40	65.62	258.81
L1500E	2600S	3138.19	65.15	258.84
L1500E	2500S	3146.06	64.66	258.78
L1500E	2400S	3152.27	64.48	259.04
L1500E	2300S	3158.21	64.15	259.03
L1500E	2200S	3164.36	63.90	259.02
L1500E	2100S	3169.42	63.63	259.02
L1500E	2000S	3175.88	63.37	259.11
L1500E	1900S	3182.09	62.86	258.94
L1500E	1800S	3186.50	62.70	259.03
L1500E	1700S	3191.51	62.34	258.94
L1500E	1600S	3192.19	62.08	258.72
L1500E	1500S	3202.13	61.78	258.98
L1500E	1400S	3208.15	61.36	258.89
L1500E	1300S	3214.33	61.12	258.99
L1500E	1200S	3219.58	60.96	259.12
L1500E	1100S	3224.65	60.70	259.14
L1500E	1000S	3229.25	60.43	259.13
L1500E	900S	3234.44	60.28	259.27
L1500E	800S	3239.97	60.00	259.32
L1500E	700S	3245.75	59.65	259.31
L1500E	600S	3252.90	59.35	259.44
L1500E	500S	3262.19	58.74	259.38
L1500E	400S	3272.90	58.10	259.38
L1500E	300S	3284.63	57.48	259.46
L1500E	200S	3298.13	56.65	259.43
L1500E	100S	3311.03	55.83	259.37
L1500E	000	3325.56	55.11	259.48

L2000E	2900S	3126.67L		
L2000E	2800S	3128.22	65.29	258.44
L2000E	2700S	3131.32	65.19	258.51
L2000E	2600S	3136.51	64.96	258.57
L2000E	2500S	3142.66	64.54	258.50

MADE IN CANADA

L2000E	2400S	3149.83	64.45	258.81
L2000E	2300S	3158.04	63.96	258.77
L2000E	2200S	3166.11	63.46	258.72
L2000E	2100S	3170.65	63.21	258.71
L2000E	2000S	3176.90	62.87	258.71
L2000E	1900S	3181.41	62.67	258.76
L2000E	1800S	3186.67	62.41	258.79
L2000E	1700S	3192.87	62.09	258.82
L2000E	1600S	3199.95	61.65	258.79
L2000E	1500S	3207.06	61.26	258.80
L2000E	1400S	3213.06	60.91	258.78
L2000E	1300S	3220.66	60.67	258.97
L2000E	1200S	3227.62	60.29	258.97
L2000E	1100S	3232.40	60.04	258.99
L2000E	1000S	3237.47	59.77	259.00
L2000E	900S	3242.51	59.50	259.02
L2000E	800S	3248.08	59.10	258.95
L2000E	700S	3254.69	58.83	259.07
L2000E	600S	3261.53	58.27	258.93
L2000E	500S	3269.90	57.89	259.06
L2000E	400S	3283.07	57.22	259.18
L2000E	300S	3294.33	56.52	259.16
L2000E	200S	3305.89	55.87	259.23
L2000E	100S	3321.29	55.02	259.29
L2000E	000	3341.09	53.88	259.28
L2500E	2800S	3145.43	63.95	258.13
L2500E	2600S	3149.30	63.85	258.22
L2500E	2400S	3156.61	63.51	258.28
L2500E	2200S	3165.24	63.38	258.63
L2500E	2000S	3177.71	62.69	258.64
L2500E	1800S	3192.05	61.98	258.74
L2500E	1600S	3210.68	61.02	258.83
L2500E	1400S	3225.90	60.17	258.83
L2500E	1200S	3235.88	59.75	258.96
L2500E	1000S	3246.17	59.29	259.09
L2500E	800S	3259.06	58.49	259.05
L2500E	600S	3277.67	57.43	259.11
L2500E	400S	3299.79	56.12	259.12
L2500E	200S	3322.85	54.75	259.16
L2500E	000	3360.58	52.68	259.28
L3000E	2900S	3156.74	63.12	257.98
L3000E	2800S	3160.00	63.06	258.12
L3000E	2600S	3165.06	62.85	258.18
L3000E	2400S	3171.07	62.61	258.25
L3000E	2200S	3176.80	62.38	258.33
L3000E	2000S	3188.07	61.95	258.53
L3000E	1800S	3201.85	61.18	258.54
L3000E	1600S	3217.80	60.34	258.60
L3000E	1400S	3232.52	59.57	258.66
L3000E	1200S	3244.46	59.00	258.77
L3000E	1000S	3257.72	58.27	258.80
L3000E	800S	3271.86	57.60	258.95
L3000E	600S	3288.50	56.71	259.05
L3000E	400S	3307.33	55.68	259.19
L3000E	200S	3330.46	54.26	259.23
L3000E	000	3373.14	51.66	259.08
L3500E	3000S	3160.00	62.66	257.77
L3500E	2800S	3166.12	62.37	257.81
L3500E	2600S	3174.71	62.04	257.94
L3500E	2400S	3183.34	61.68	258.07

L3500E	2200S	3191.81	61.38	258.23
L3500E	2000S	3198.47	61.12	258.33
L3500E	1800S	3211.26	60.38	258.32
L3500E	1600S	3227.61	59.60	258.47
L3500E	1400S	3243.77	58.76	258.55
L3500E	1200S	3257.82	58.02	258.60
L3500E	1000S	3271.29	57.37	258.73
L3500E	800S	3286.39	56.71	258.95
L3500E	600S	3302.10	56.01	259.17
L3500E	400S	3317.50	55.02	259.15
L3500E	200S	3339.58	53.69	259.23
L3500E	000	3385.49	50.86	259.11
TL3000S	500W	3095.38	68.01	259.02
TL3000S	400W	3095.26	67.97	258.99
TL3000S	300W	3097.75	67.76	258.93
TL3000S	200W	3098.56	67.79	259.01
TL3000S	100W	3098.38	67.72	258.95
TL3000S	000	3099.55	67.65	258.96
TL3000S	100E	3100.83	67.59	258.98
TL3000S	200E	3101.42	67.52	258.96
TL3000S	300E	3102.71	67.44	258.96
TL3000S	400E	3104.42	67.32	258.95
TL3000S	500E	3106.78	67.09	258.87
TL3000S	600E	3109.15	66.90	258.83
TL3000S	700E	3112.27	66.67	258.80
TL3000S	800E	3113.53	66.66	258.86
TL3000S	900E	3114.42	66.58	258.85
TL3000S	1000E	3116.47	66.34	258.74
TL3000S	1100E	3117.80	66.28	258.76
TL3000S	1200E	3118.27	66.11	258.63
TL3000S	1300E	3118.26	66.14	258.67
TL3000S	1400E	3117.86	66.16	258.68
TL3000S	1500E	3119.06	66.04	258.64
TL3000S	1600E	3119.20	65.90	258.51
TL3000S	1700E	3120.43	65.81	258.50
TL3000S	1800E	3122.69	65.47	258.30
TL3000S	1900E	3124.88	65.42	258.38
TL3000S	2000E	3126.67	65.43	258.50
TL3000S	2100E	3129.06	65.10	258.31
TL3000S	2200E	3131.70	64.81	258.19
TL3000S	2300E	3136.52	64.65	258.32
TL3000S	2400E	3140.59	64.25	258.17
TL3000S	2500E	3144.03	64.03	258.14
TL3000S	2600E	3145.61	63.92	258.13
TL3000S	2700E	3146.87	63.79	258.08
TL3000S	2800E	3151.73	63.50	258.07
TL3000S	2900E	3155.49	63.17	257.97
TL3000S	3000E	3156.74	63.12	257.98
TL3000S	3100E	3160.06	62.92	257.99
TL3000S	3200E	3157.53	63.07	258.00
TL3000S	3300E	3160.84	62.72	257.84
TL3000S	3400E	3160.48	62.70	257.82
TL3000S	3500E	3160.00	62.75	257.86

EXECUTION TERMINATED

$SIGNOFF

FO RAN CODING FORM Date July 1978 Page 1

STATEMENT NO. | CONT | FORTRAN STATEMENT → **APPENDIX B: LFC Crone Shootback EM Data**

L30E	Dip °
29S	-61
28S	-45
27S	-54
26S	-54
24S	-76
22S	-85
20S	-104
18S	-111
16S	-119
14S	-122
12S	-95
10S	-98
8S	-87
6S	-69
4S	-65
2S	-1
1S	-55
0	-64
1N	-41
2N	-37

BL0	Dip °
30E	-47
28E	-53
26E	-55
24E	-65
22E	-57
20E	-52
18E	-62
16E	-68
14E	-68
12E	-75
10E	-83
8E	-94
6E	-102
4E	-106
2E	-74
0	-97

L00	Dip °
00	
2S	-94
4S	-95
6S	-102
8S	-69
10S	-109
12S	-87
14S	-110
16S	-90
18S	-107
20S	-89
22S	-92
24S	-73
26S	-79
28S	-49

L5E	Dip °
30S	
28S	-46
26S	-75
24S	-79
22S	-113
20S	-72
18S	-113
16S	-109
14S	-72
12S	-93
10S	-92
8S	-102
6S	-87
4S	-98
2S	-96
0	-57
2N	-94

FO RAN CODING FORM Date July 1978 Page 1

L10E	DIP°	L15E	DIP°	L20E	DIP°	L25E	DIP°
2N	-68	28S	-81	2N		30S	
0	-15	26S	-90	0	-72	28S	-49
2S	-12	24S	-114	2S	-65	26S	-77
3S	-80	22S	-116	4S	-97	24S	-88
4S	-110	20S	-107	6S	-123	22S	-99
6S	-128	18S	-125	8S	-152	20S	-125
8S	-62	16S	-132	10S	-126	18S	-120
10S	-125	14S	-118	12S	-103	16S	-128
12S	-110	12S	-123	14S	-111	14S	-106
14S	-126	10S	-124	16S	-118	12S	-116
16S	-69	8S	-126	18S	-104	10S	-85
17S	-146	6S	-107	20S	-97	8S	-130
18S	-127	4S	-113	22S	-80	6S	-111
20S	-81	2S	-81	24S	-83	4S	-121
22S	-96	0	-75	26S	-77	2S	-35
24S	-103	2N	-54	28S	-58	0	-83
26S	-111			30S	-25	2N	-54
28S	-72						

FO RAN CODING FORM   Date July 1978   Page

L30E DETAIL

— 200' COIL SEPARATION —

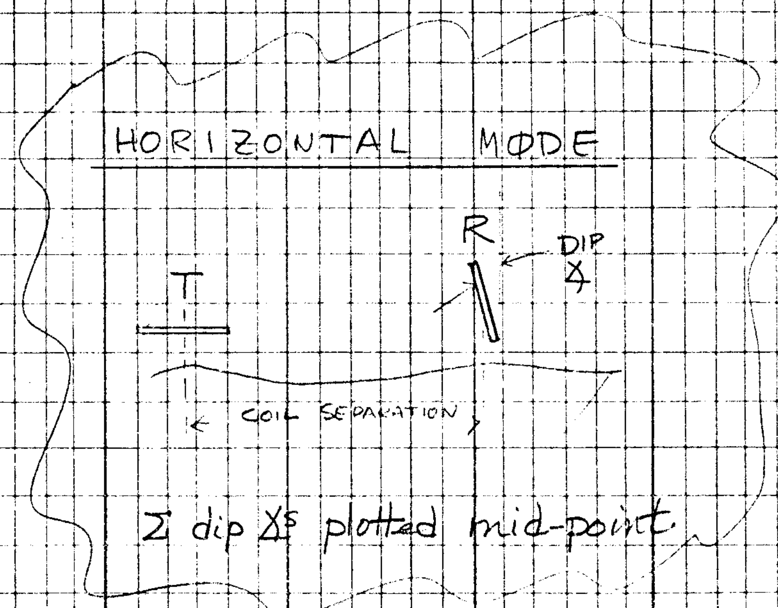
	MED FREQ	LOW FREQ
3N	-9	0
2N	-1	+3
1N	-14	-5
0	-6	-6
1S	-26	-13
2S	-36	-11
3S	-28	-18
4S	-35	-16

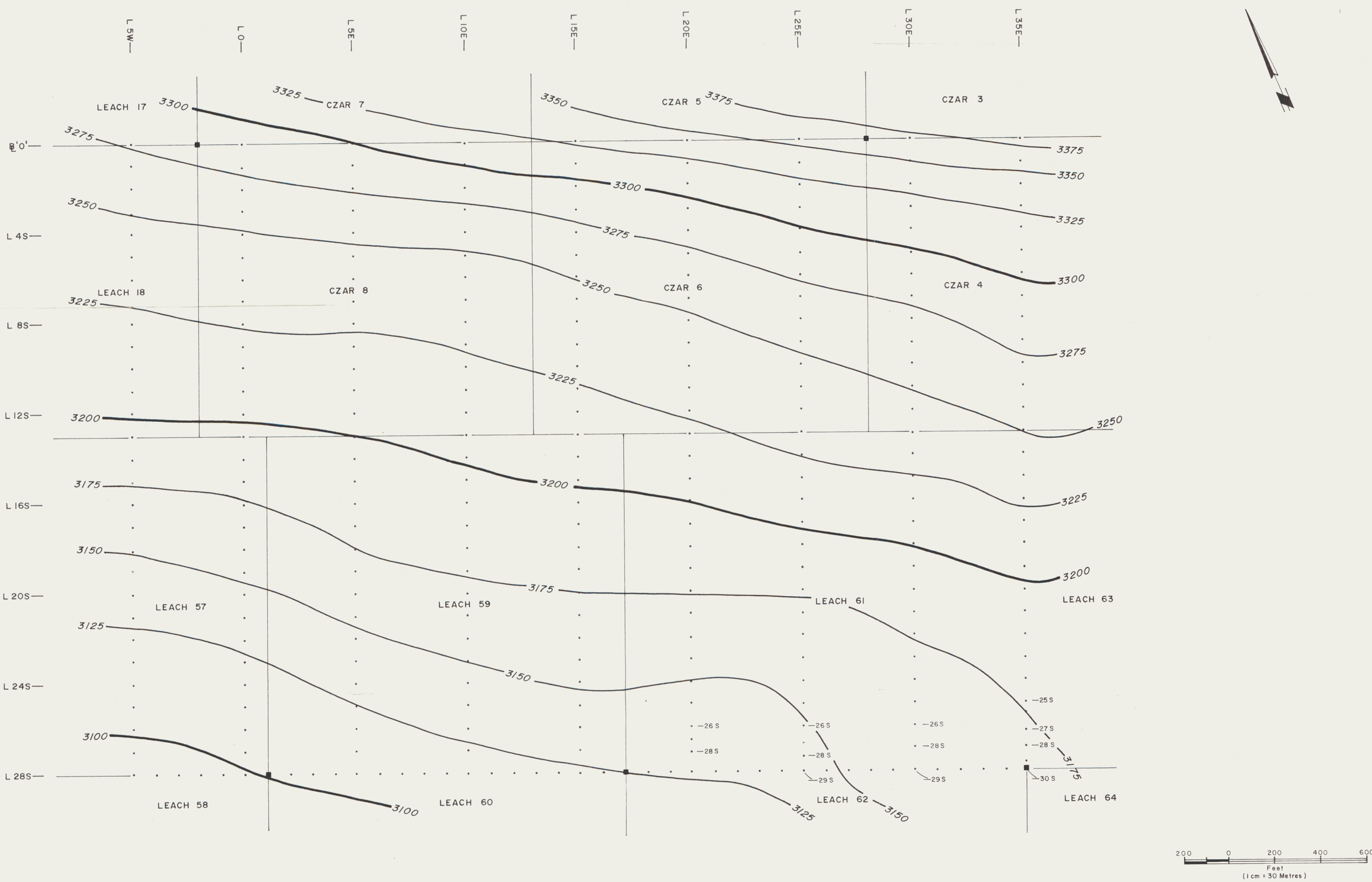
— 600' COIL SEPARATION —

	MED FREQ
1S	+8
2S	-9
3S	-72
4S	
5S	
6S	

— 400' COIL SEPARATION —

	MED FREQ	LOW FREQ
6S		
5S		
4S	-68	-60
3S	-1	-23
2S	0	-17
1S	-49	-49
0	-67	-39





N.T.S. 105 G/14

DU PONT OF CANADA
EXPLORATION LIMITED
—PELLY BANKS AREA—
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

ELEVATION MAP

CONTOUR INTERVAL : 25 FEET (7.5 METRES)

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: JULY, 1978 PROJECT: L-F-C

Charles A. Ager

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M.	FIG. NO.
	CHK. BY:	3
	DATE: JULY, 1978	

200 0 200 400 600
Feet
(1 cm = 30 Metres)

N.T.S. 105 G/14

ρ = 2.80 g/cc (EF = 0.19128 Mgal/M)
(EF = 0.0583 Mgal/Ft.)

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: JULY, 1978 PROJECT: L-F-C

DU PONT OF CANADA
EXPLORATION LIMITED
—PELLY BANKS AREA—
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

COMPLETE BOUGER GRAVITY MAP

CONTOUR INTERVAL : 0.10 MGAL

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M. CHK. BY: DATE: JULY, 1978	FIG. NO. 4

N.T.S. 105 G/14

DU PONT OF CANADA
EXPLORATION LIMITED
—PELLY BANKS AREA—
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

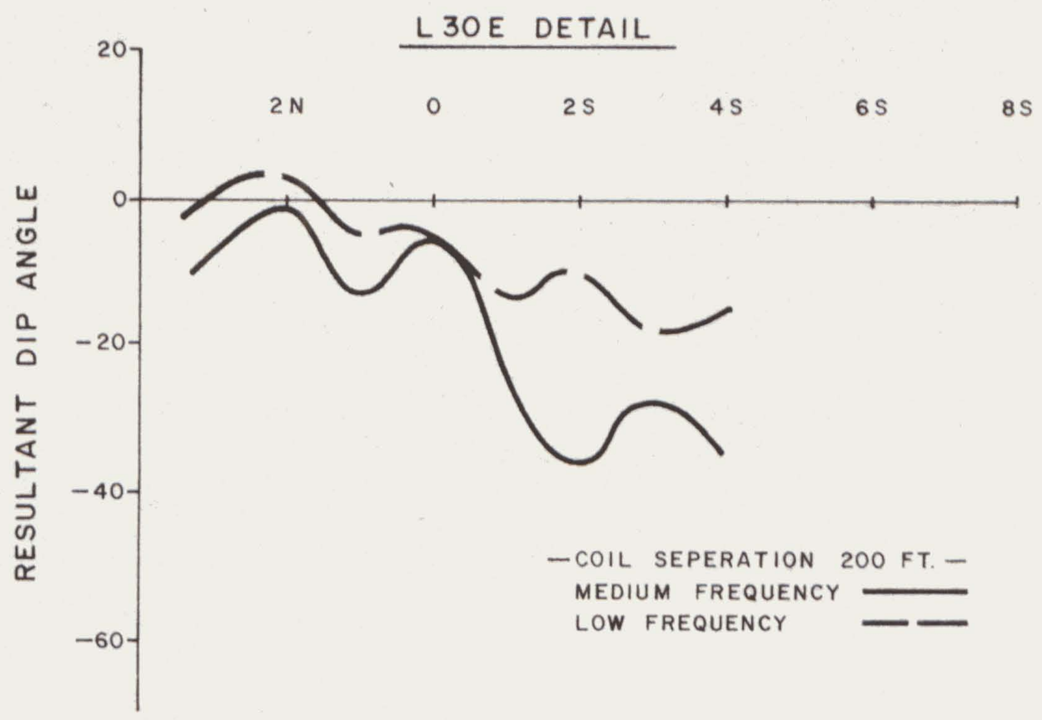
RESIDUAL GRAVITY MAP

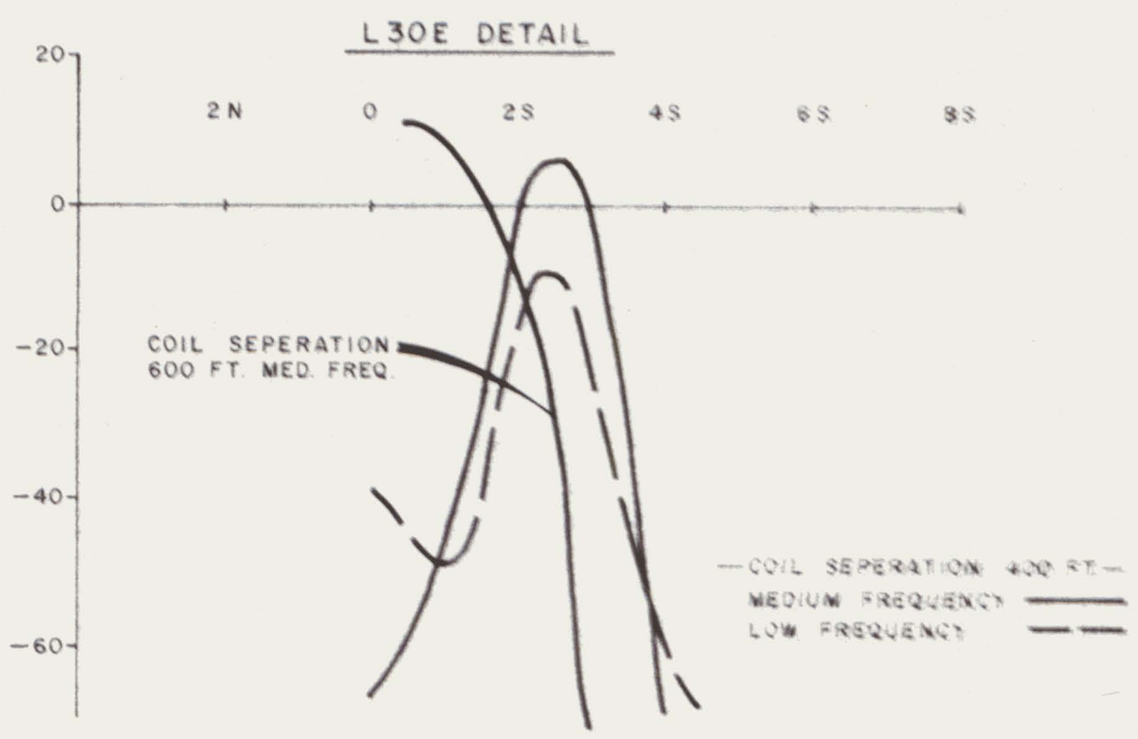
CONTOUR INTERVAL: 0.10 MGAL.

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: JULY, 1978 PROJECT: L-F-C

Charles A Ager

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M. CHK. BY: DATE: JULY, 1978	FIG. NO. 5





200 0 200 400 600
Feet
(1 cm = 30 Metres)

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng
DATED: JULY, 1978 PROJECT: L-F-C

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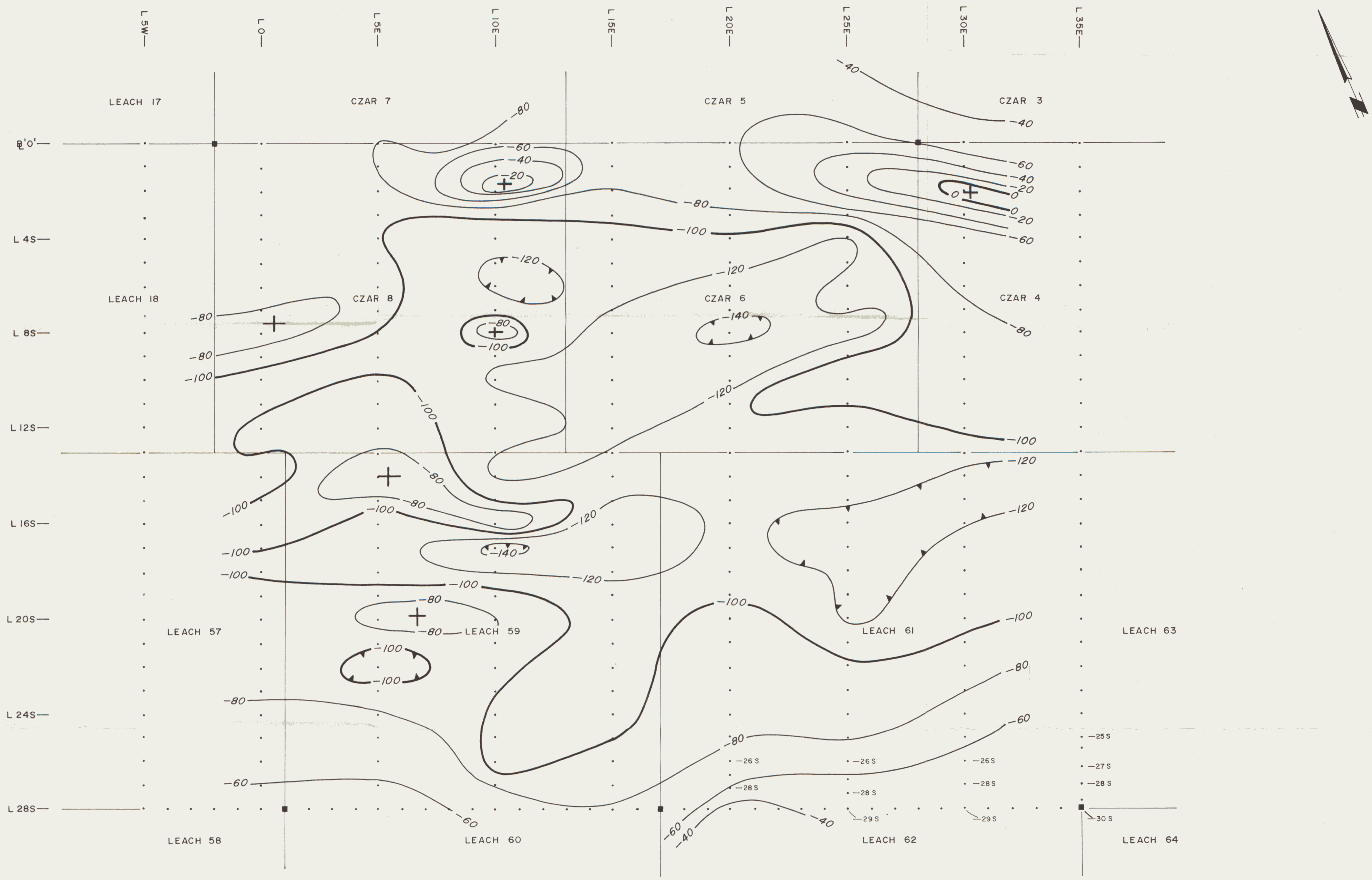
DU PONT OF CANADA EXPLORATION LIMITED
— PELLY BANKS AREA —
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

CEM PROFILES
— HORIZONTAL SHOOTBACK —
COIL SEPERATION 400 FT.
MEDIUM FREQUENCY = 1830 HZ.

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M. CHK. BY: DATE: JULY, 1978	FIG. NO. 6



200 0 200 400 600
Feet
(1 cm = 30 Metres)

N.T.S. 105 G/14

DU PONT OF CANADA EXPLORATION LIMITED
—PELLY BANKS AREA—
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

CEM PLAN MAP

CONTOUR INTERVAL : 20°

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: JULY, 1978 PROJECT: L-F-C

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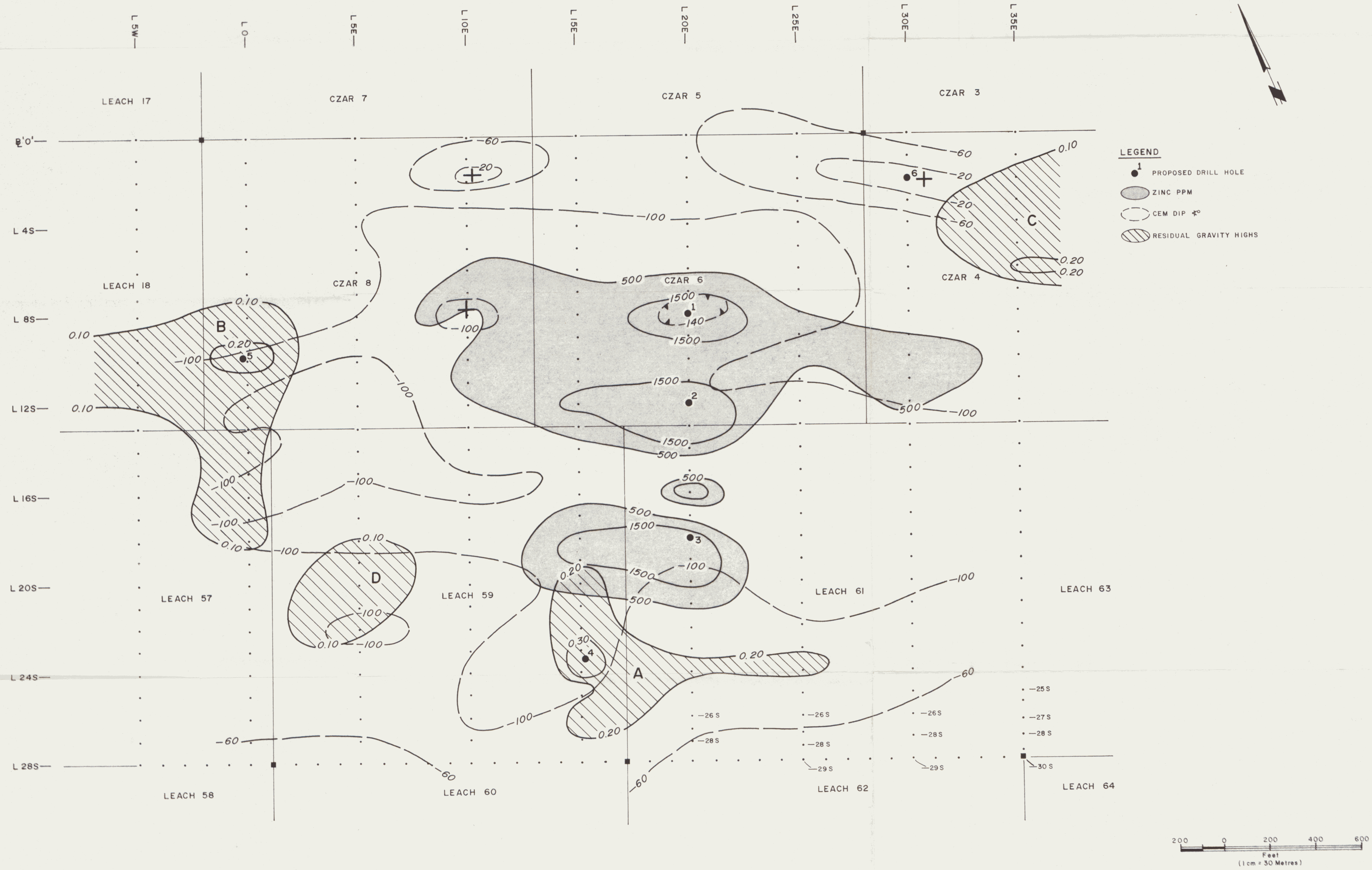
C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M. CHK. BY: DATE: JULY, 1978	FIG. NO. 7



N.T.S. 105 G/14

DU PONT OF CANADA EXPLORATION LIMITED
—PELLY BANKS AREA—
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

INTERPRETATION MAP

TO ACCOMPANY REPORT TITLED:
GRAVITY & EM SURVEY
LEACH-FAULT-CZAR CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: JULY, 1978 PROJECT: L-F-C

Charles A Ager

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY T.M. CHK. BY DATE JULY, 1978	FIG. NO. 8