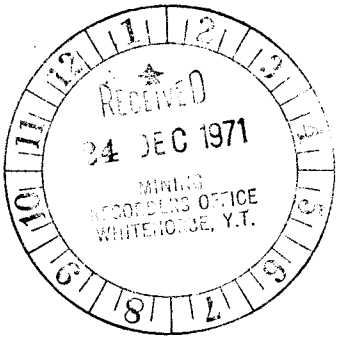
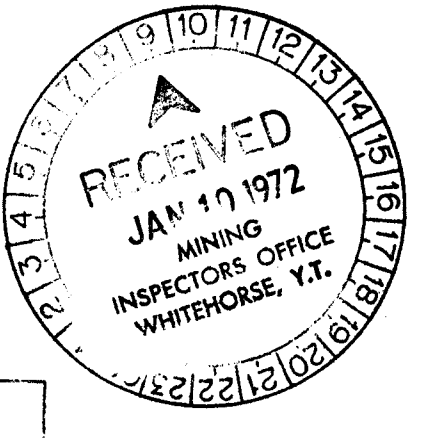
REPORT ON GEOCHEMICAL SOIL AND MAGNETOMETER SURVEYS

Carried Out June 1 - August 30, 1971

FOR ASSESSMENT WORK PERFORMED ON
HUDSON'S BAY OIL AND GAS COMPANY LIMITED
BAY CLAIMS
HOOCHEKOO CREEK, CARMACKS AREA
MAP SHEET 115 I/7, LATITUDE 62°23'
LONGITUDE 136°45'

by D. C. Mitchell





RECEIVED
24 DEC 1971
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

RECEIVED
JAN 10 1972
MINING
INSPECTORS OFFICE
WHITEHORSE, Y.T.

This report has been examined by the Geological [illegible] and is recommended to [illegible] be considered as [illegible] of

$39,333.33

D. B. Craig

[illegible]

~~[illegible] Mining Engineer~~

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

Commissioner of Yukon Territory

A B S T R A C T

During the autumn of 1970 a significant copper discovery was made on Williams Creek about 30 miles northwest of Carmacks in the Yukon. The discovery was brought to the attention of Hudson's Bay Oil and Gas Company Limited, and it was decided to stake 204 claims on the most favorable ground north of the prospect.

In June of 1971 a crew of summer students, under direction of the author, was moved onto the property to set up camp and commence the summer's field programme. The first phase of the programme consisted of:

1. Cutting base lines for survey control
2. Geochemical soil sampling
3. Magnetometer surveying
4. Reconnaissance geological mapping

The second phase carried out during the latter part of August, after assessing the first phase, consisted of:

1. Follow-up soil sampling to fill in anomalous zones
2. Trenching

The results of this work indicated several anomalous copper zones, but individual high copper values tended to be rather scattered even within the zones. Trenching on one of the anomalies was inconclusive as bedrock was not reached.

Further work is recommended in order to determine the causes of the copper anomalies.

M A P I N D E X

Plate No.	Title	Scale
1	Copper in Soil, All Values	1" = 1000'
2	Copper in Soil, Anomalous Values	1" = 1000'
3	Magnetic Profile Map	1" = 1000'
4	Geological Map	1" = 1000'
5	Claims with Respect to Grid System	1" = 1000'
Figure 1	Yukon Location Map	1" = 112 miles

A P P E N D I C E S

Appendix 1	Statutory Declaration of Expenses
Appendix 2	Expense Verification

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INTRODUCTION

During the spring and summer of 1971, line cutting, soil sampling and a magnetometer survey were carried out over the 204 Bay claims in the Carmacks area.

A base line system was established for control of the surveys. Geochemistry, geophysics and reconnaissance geology were then carried out on 800-foot spaced lines at 90° to the structural fabric of the rock. Further follow-up sampling was carried out to delineate anomalous areas and one trench was dug.

Expediting was carried out by R. G. Hilker, consultant, from Whitehorse. The work was performed by a six-man crew under the direction of the author.

PROPERTY

General

The property is situated in the Yukon Plateau where the relief is generally no more than 1,000 feet. It is fairly heavily wooded, but very dry. There is only one perennial stream (Hoochekoo Creek) flowing through the property. Permafrost is common, especially in muskeg and stream valleys.

Only the lowest parts of the property have been glaciated. Some glacial features were noted in the stream valleys.

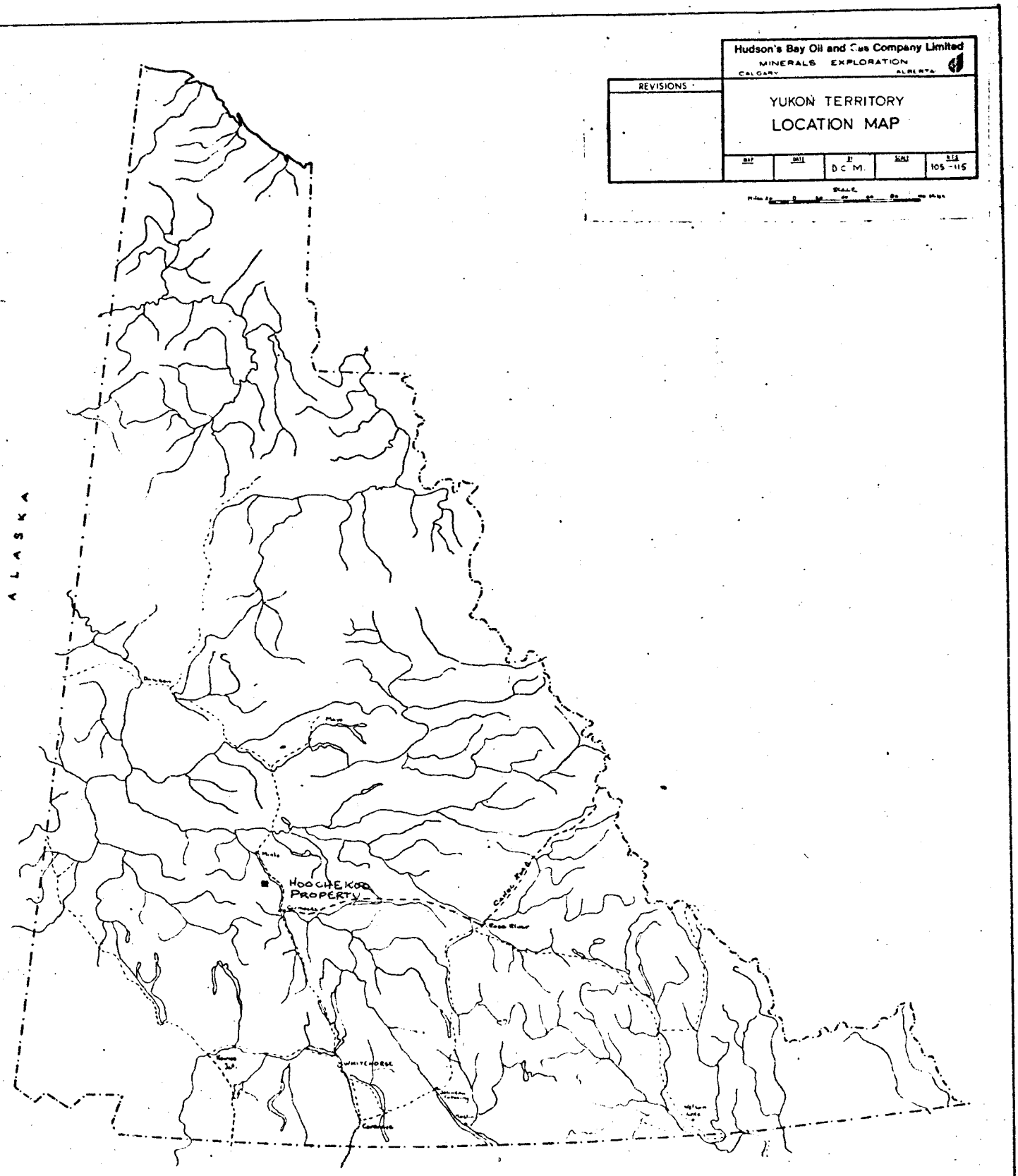
Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
CALGARY ALBERTA
REVISIONS
YUKON TERRITORY
LOCATION MAP
D.C.M.
105 - 115
ALASKA
HOOCHEKOO
PROPERTY
WHITEHORSE

FIG. 1

Location and Access

The property is located to the west of the Yukon River at a point opposite Midway Lodge on the Klondike Highway, about 30 miles northwest of Carmacks, and is bisected by Hoochekoo Creek. The claims can be located on the Whitehorse Mining District, Claim Sheet 115 I/7.

Access to the property is at present only by helicopter from Carmacks or Whitehorse, but there is road access to Williams Creek, about three miles south of the property.

Claims

The claims block consists of 204 claims with grant numbers Y60061 to Y60264 to be grouped as per grouping forms (see Plate 5).

GEOLOGY

For the regional geology of the area, the reader is referred to the Government Publication:

Bostock, H. S. (1936), Carmacks District, Yukon
G.S.C. Memoir 189.

Reconnaissance mapping was carried out with the geochemical sampling (see Plate 4). The northeastern part of the property is underlain by volcanics of the Mount Nansen Group. Wherever observed, the volcanics are fairly fresh andesites which appear to have been altered to amphibolites along the contact with the granite. Small quartz veins are present in the amphibolites. A few

small intrusions of mafic rock, mainly diorite, were observed in this group.

The volcanics are in contact with a porphyritic granite that underlies about 3/4 of the property. The granite is composed of large phenocrysts of white to pinkish orthoclase in a mass of quartz, orthoclase, plagioclase and biotite with occasional accessory titaniferous magnetite. The porphyritic granite is intruded(?) by two stocks of fine-grained, orange-spotted, white to pinkish leuco-granite in the southeast and southwest quarters of the property. These are frequently cut by small pegmatite dykes and quartz veins.

One sill or dyke of fresh basaltic rock was observed on the western edge of the property. This is probably quite young and may be related to the Carmacks volcanics of Cenozoic age. One outcrop of conglomerate was observed in the Hoochekoo Valley; it may be related to the older Laberge Series(?).

PICKET LINE CUTTING

A total of 17 line miles of picket lines were contracted for, to give control for the surveys. The work was done by Eastern Associates Ltd. of Whitehorse.

Three base lines were cut on a bearing of 330° true; these were the 60 EBL, the 0+00 BL and the 45 WBL. The base lines were tied together by the 0+00 TL cut on a bearing of 60° true (see Plate 5).

GEOCHEMISTRY

General

The soil sampling was carried out to assess the possibility of further copper deposits on strike to the north of the Williams Creek discovery, and along the contact with the Mount Nansen volcanics.

Soil sampling over the Bay claims was hampered by a layer of dense fine white volcanic ash which averages six inches to one foot in thickness. It was rarely absent and sometimes up to two feet thick in the valleys. It was found that there was practically no upward penetration of metal ions through the ash so that values of less than 10 ppm copper could be expected in or above this layer.

A further complication was encountered in the form of frozen ground. About 30% of the initial sampling had to be missed due to frost. In low areas with heavy moss cover, muskegs, etc. permafrost is present and is generally impenetrable. In other areas frost conditions improved somewhat as the season advanced.

Sampling

The sampling was done by two, 2-man crews using ice picks and augers. A total of approximately 4,800 samples were taken over a compass and pace line grid on lines bearing 60°. Lines were spaced 800 feet apart with samples taken every 100 feet. Where possible, the light brown "B" horizon was taken from under the volcanic ash. In some cases a thick humic layer was encountered under the ash and if necessary, this was taken.

Sample locations, soil types, slopes and slope directions plus any other pertinent data were recorded on the sample bags. Samples have been filed and can be examined if further reference is required. All sample points were well flagged in order that they could be relocated if necessary.

Analysis

After collection samples were dried and sieved, and the -80# fraction was sent to Chemex Labs in Vancouver for analysis. The samples were analyzed for Cu, Mo, Pb and Ag by the atomic absorption method.

Plotting

Plotting of copper values was done at a scale of 1" = 1000'; each sample point is indicated by a tic on the line. All copper values are plotted on Plate 1; only above-threshold values are plotted on Plate 2. Where values are significantly anomalous but contained a large proportion of humic material, the value is accompanied by a five or six on both maps.

Interpretation

Geochemical results for Cu, Mo, Pb and Ag were examined and given a rough statistical analysis. It was found that the background for copper was around 15 ppm and the threshold at about 50 ppm, except over the volcanic rocks, where the threshold significantly increases to 75 ppm. The results for the other metals gave only isolated values slightly above background, because of this no plot has been included in this report.

The copper anomalies are rather difficult to interpret in that no very clear patterns of anomalous values emerge; high values tend to be isolated. There are several reasons for these "spotty" highs. The main ones are low mobility and depth of overburden. Due to the lack of pyrite in association with mineralization in this area, the ground waters remain fairly alkaline, and therefore, cannot carry much copper in solution. The overburden appears to be fairly deep in most places, and almost always covered by a layer of ash. Considering the low mobility factor, the upward migration of ions may become attenuated very rapidly.

At least five rather broadly anomalous zones are apparent on the property. These have been picked in order of relative priority (Plate 2):

Anomaly 1: A northerly trending well defined group of values moderately above threshold, of special interest, because of the grouping of the values and proximity to the contact between the granite and volcanics.

Anomaly 2: A few well-grouped values moderately above threshold, flanked by a slight magnetic high and associated with a stock? of fine grained leuco-granite.

Anomaly 3: A few well grouped values including one very high value of probable significance, which will require checking in the field. This anomaly may be due to a small vein-type occurrence on the contact between the granite and volcanics and similar to the type seen farther south on the Crown Grants on Williams Creek, as

described by Bostock. An attempt to trench on this anomaly failed as bedrock was not reached.

Anomaly 4: Poorly grouped values, moderately above threshold but most of the samples are humic-rich and not reliable.

Anomaly 5: Poorly grouped—scattered values significantly above threshold persisting along the ridge above the volcanic granite contact and roughly parallel to it. These rather scattered values may be due to a relatively higher, but erratic copper content in the volcanic rocks.

Other values above threshold were found over most of the property, but are too scattered or contain too high a proportion of humic material to be of interest at the present time.

GEOPHYSICS

General

A magnetometer survey was conducted over many of the same lines as the geochemical survey. The purpose was to aid in delineating the geology, which, due to heavy overburden, was not too clear.

Method and Equipment

The instrument used was a McPhar M700 Magnetometer. This is a self-leveling, vertical field fluxgate magnetometer which reads to 5 gammas.

Readings were taken at 100-foot intervals along the 800-foot spaced lines.

A base station was established at camp where the instrument was zeroed by taking several readings at the same point. Further base stations were established at 800-foot intervals along the 0+00 BL, 45 WBL and 60 EBL during the survey. Magnetic variations could be determined by comparing readings at a base station at any time. This procedure was carried out three to four times a day during the survey in order to check for magnetic fluctuation.

The reduced data was plotted in profile at 1" = 1000' horizontal scale and 1" = 1000 gammas vertical scale (see Plate 3).

Calculations

The raw data, acquired in the field, was reduced in order to roughly filter out the effect of magnetic drift and short term fluctuation. This was done by taking the difference in readings between base stations, then apportioning this difference over the number of intermediate readings.

Interpretation

The most prominent feature revealed by the survey is the magnetic contrast between the volcanics and granitic rocks, allowing easy recognition of the contact. One or two prominent narrow highs indicate the presence of younger dykes in the granitic rocks. Other less prominent features are in association with the increased magnetite content in the porphyritic granite.

PERSONNEL

The following personnel were used to conduct the soil and magnetometer surveys on the Bay claims:

Name and Address	Position	Period on the Property	Salary
D. C. Mitchell 928 Mapledale Place, SE Calgary 30, Alberta	Geologist	June 5 - July 15 Aug. 15 - Aug. 30	$33/day
D. Herdman 134 Renfrew Avenue Ottawa 1, Ontario	Student Assistant	May 31 - July 15 Aug. 15 - Aug. 30	$30/day
L. Preweda 397 Cairnsmore Street Winnipeg 14, Manitoba	Student Assistant	June 5 - July 15 Aug. 15 - Aug. 30	$28/day
R. Humiski 972 Elizabeth Road Winnipeg 6, Manitoba	Student Assistant	June 5 - July 15 Aug. 15 - Aug. 30	$23/day
J. Kasarda 442 North Brodie Street Thunder Bay, Ontario	Student Assistant	May 31 - July 15 Aug. 15 - Aug. 30	$23/day
I. Thomas c/o Hudson's Bay Oil and Gas Company Limited 320 - 7th Avenue, SW Calgary 2, Alberta	Geological Technician	June 5 - July 15 Aug. 15 - Aug. 30	$25/day
J. Bull 306 - 10A Street, NW Calgary, Alberta	Camp Cook	June 5 - July 15 Aug. 15 - Aug. 30	$25/day

EXPENDITURES

Expenditures incurred by Hudson's Bay Oil and Gas Company Limited during the soil sampling and magnetometer surveys of the Bay claims on

Hoochekoo Creek, May 30 to July 16, 1971 and August 15 to August 30, 1971 are listed below. For documentation see Appendix.

1. Aircraft Costs, Helicopter

T.N.T.A. Invoice No. 151-71, May 12th	$ 798.80	
T.N.T.A. Invoice No. 204-71, May 31st	1,008.90	
T.N.T.A. Invoice No. 212-71, June 8th	242.76	
T.N.T.A. Invoice No. 243-71, June 18th	829.20	
T.N.T.A. Invoice No. 304-71, June 29th	1,221.87	
T.N.T.A. Invoice No. 329-71, June 30th	162.92	
T.N.T.A. Invoice No. 426-71, July 29th	2,286.50	
T.N.T.A. Invoice No. 644-71, Aug. 31st	1,926.60	$ 8,477.55

2. Geochemical Determinations

Chemex Invoice No. 5143, June 18th	$ 630.00	
Chemex Invoice No. 5246, June 29th	480.00	
Chemex Invoice No. 5248, June 30th	1,121.04	
Chemex Invoice No. 5259, July 1st	803.52	
Chemex Invoice No. 5300, July 6th	2,098.00	
Chemex Invoice No. 5479, July 21st	1,200.00	
Chemex Invoice No. 5500, July 22nd	1,472.00	
Chemex Invoice No. 6024, Sept. 4th	950.40	
Chemex Invoice No. 6031, Sept. 7th	1,149.12	$ 9,904.08

3. Camp Supplies and Sundries

Depreciation of HBOG Camping Equipment	$1,000.00	
Riverside Grocery, May 25th	150.42	
Riverside Grocery, June 5th	954.98	
Riverside Grocery, June 11th	37.38	
Riverside Grocery, June 18th	77.63	
Riverside Grocery, June 29th	84.78	
Riverside Grocery, Aug. 3rd	171.37	
Burns Meats, June 4th	326.59	
Burns Meats, June 18th	86.28	
Burns Meats, June 28th	82.90	
Burns Meats, July 5th	100.02	
Burns Meats, July 16th	147.48	
Canadian Propane (Total Propane Payments June 5th - July 13th)	189.75	
General Enterprises, June 5th	64.22	$ 3,473.42

4. Salaries

Total of 262 Man Days @ $162/day		$ 6,969.00

5. Consultants Fees, Expediting, etc.

Hilker Invoice No. 2045, May 31st	$ 338.68	
Hilker Invoice No. 2055, June 29th	1,344.45	
Hilker Invoice No. 2071, Aug. 31st	1,169.00	$ 2,552.13

6. Line Cutting

Eastern Associates, June 14th		$ 1,629.25

7. Travelling and Hotel Expenses

Airline Tickets, Calgary to Whitehorse Return	$1,957.00	
Hotel, Tourists Services Whitehorse	796.00	$ 2,753.00

8. Office Contingencies 10% of Total $ 3.575.00

TOTAL EXPENDITURES $39,333.43

CONCLUSIONS AND RECOMMENDATIONS

As a result of the geochemistry, geophysics and reconnaissance geology performed during the past season on the Hoochekoo property, some copper geochemical anomalies were uncovered. Unfortunately, none of the anomalies are very definite, but tend to be spotty and erratic, characterized by a few high values with intervening low ones, poorly grouped. The reasons for this type of geochemical expression may be due to the nature of the overburden, thick ash cover and frequent areas of permafrost, and not the lack of mineralization. Neither the magnetometer survey nor the reconnaissance mapping revealed anything of economic significance.

Due to the two recent discoveries in this area, Williams Creek to the south and Silver Standard to the north, this property cannot be discarded without a thorough follow-up programme.

Further work on the property should consist of:

1. An induced polarization survey on the same grid lay out as the geochemistry, using a "gradient" transmitting array, in order to clarify some of the geochemical information. This survey should better define targets for trenching and stripping, and possible drill targets if drilling seems warranted.

2. As a continuing part of the follow-up work, stripping on some of the geochemical highs, and if present, IP conductors is recommended in order to determine their causes. It will probably be necessary to use a caterpillar tractor due to the depth of overburden, although some preliminary test pitting may be helpful in places.

Signed: D. Mitchell (Senior Exploration Geologist) for D.C.M

D. C. Mitchell

E. C. Burgan, P. Eng.

October, 1971

APPENDIX 1

STATUTORY DECLARATION OF EXPENSES

C A N A D A)
)
)
T O W I T:)

I, E. C. Burgan, Agent for Hudson's Bay Oil and Gas Company Limited

of 320 Seventh Avenue S. W., Calgary 2, Alberta

do solemnly declare - that the expenses as declared in the cost of this Report are true and accurate to the best of my knowledge and that the invoices as submitted with this Report cover the costs of this survey.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

DECLARED BEFORE ME at Calgary)
)
in the Province of Alberta this)
)
20th day of December 19 71)

E.C. Burgan

James R. Gaffney
Notary Public
A Notary Public in and for
the Province of Alberta

My Commission expires at
the Minister's pleasure.

A P P E N D I X 2

TNT

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

ATAC AIR TRANSPORT ASSOCIATION OF CANADA MEMBER

TO: Hudson Bay Oil & Gas Co. Ltd.
c/o R.G. Hilker Ltd.
Box 1566
Whitehorse, Yukon

Attention: Mr. Dave Mitchell

DATE July 29, 1971 INVOICE NO. 426-71

P.O. NO.

TO:	Charge you with the charter of Bell 47G-3B-2 Helicopter CF-QJY Crew: Brown and Engst	
FLYING:	July 1 - 5, 8, 9 & 15, 1971 Daily Flight Report Nos. 8731, 8734, 8738, 8741, 8744, 8751, 8752 and 8765	
	13.1 hours at $155.00 per hour (rate when carrier supplies fuel)	$2,030.50
PLUS:	Excess cost of fuel at Carmacks Charterer assessed with cost of fuel over 60¢ per gallon	
	235 gallons at $.40¢ per gallon	94.00
PLUS:	Prorated crew expenses at Carmacks	92.00
PLUS:	Crew expenses at Carmacks omitted on our June invoices	70.00
	INVOICE TOTAL	$2,286.50

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

Aug 17/71
$2,286.50
Minerals Exploration
Hawchekes Project #23
S. J. Moss

ok for payment
David Mitchell

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:

Hudson's Bay Oil & Gas Co. Ltd.
c/o R.G. Hilker Ltd.
Box 1566
WHITEHORSE, Yukon

Attn: Mr. Dave Mitchell

DATE June 30, 1971 INVOICE NO. 329-71

P.O. NO.

TO: Charge you with the following helicopter charters:

Bell 47G-3B-1 Helicopter CF-RQM
Pilot: Gene Drzymala

FLYING: June 30, 1971
Daily Flight Report No. 6468

1.6 hours at $155.00 per hour (rate when carrier supplies fuel) $248.00

Charge Teslin

Bell 47G-3B-2 Helicopter CF-QJX
Pilot: G.D. Brown

FLYING: June 30, 1971
Daily Flight Report No. 8727

1.0 hours at $155.00 per hour (rate when carrier supplies fuel) 155.00

Charge Hotchkiss

PLUS: Excess cost of fuel at Pelly Crossing
Charterer assessed with cost of fuel over 60¢ per gallon

18 gallons at 44¢ per gallon 7.92

INVOICE TOTAL $410.92

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

ok for payment David Mitchell

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO: Hudson Bay Oil & Gas Co. Ltd.
c/o R.G. Hilker Ltd.
Box 1566
WHITE HORSE, Yukon

Attn: Mr. Dave Mitchell

DATE June 29, 1971 INVOICE NO.

P.O. NO.

TO: Charge you with the following helicopter charters:

Bell 47G-2 Helicopter CF-ETR
Crew: Johnson and Stout

FLYING: June 23, 1971
Daily Flight Report No. 6049

6.0 hours at $120.00 per hour $ 720.00
(rate when carrier supplies fuel)

PLUS: Excess cost of fuel at Minto
Charterer assessed with cost
of fuel over 60¢ per gallon

55 gallons at 41¢ per gallon 22.25

Bell 47G-3B-2 Helicopter CF-QJX
Crew: Dunbar and Engst

FLYING: June 8 and 12, 1971
Daily Flight Report Nos. 3463,3471

2.9 hours at $155.00 per hour 449.50
(rate when carrier supplies fuel)

Continued 2

PLUS:	Excess cost of fuel at following points: Charterer assessed with cost of fuel over 60¢ per gallon		
	Carmacks - 20 gallons at 40¢ per gallon	$ 8.00	
	Tatchun Lake - 32 gallons at 41¢ per gallon	13.12	$ 21.12
PLUS:	Gasoline purchased by TNTA per Royalite invoice 3152987		7.00
PLUS:	Telephone call on June 8, 1971		2.00
	INVOICE TOTAL		$1,221.87

OK for Payment
David Mitchell

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

T
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TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:

Hudson Bay Oil & Gas Co. Ltd.
c/o R.G. Hilker Ltd.
Box 1566
WHITEHORSE, Yukon

DATE June 18, 1971 INVOICE NO. 243-71

P.O. NO.

TO:	Charge you with the charter of Bell 47G-3B-2 Helicopter CF-QJX Crew: Dunbar and Engst	
FLYING:	June 6 and 7, 1971 Daily Flight Report Nos. 3458, 3461 Hoochekoo Project	
	5.1 hours at $155.00 per hour (rate when carrier supplies fuel)	$790.50
PLUS:	Excess cost of fuel at following points: Charterer assessed with cost of fuel over 60¢ per gallon	
	Carmacks - 45 gallons at 40¢ per gallon	18.00
	Midway - 45 gallons at 46¢ per gallon	20.70
	INVOICE TOTAL	$829.20

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

#June 25/71
#829.20
Minerals Exploration
Hoochekoo Project #23
A.J. Ross

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

ATAC MEMBER

TO:

Hudson's Bay Oil and Gas Co. Ltd.
c/o R.G. Hilker Ltd.
Box 1566
WHITEHORSE, Yukon

Attn: Mr. Dave Mitchell

DATE June 8, 1971 INVOICE NO. 212-71

P.O. NO.

TO:	Charge you with the charter of Bell 47G-3B-2 Helicopter CF-QJX Crew: Dunbar and Engst	
FLYING:	June 2, 1971 Daily Flight Report No. 3453	
	1.5 hours at $155.00 per hour (rate when carrier supplies fuel)	$232.50
PLUS:	Excess cost of fuel at Carmacks Charterer assessed with cost of fuel over 60¢ per gallon	
	27 gallons at 38¢ per gallon	10.26
	INVOICE TOTAL	$242.76

David Mitchell

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

June 15/71
$242.76
Mineral Exploration
Nooch Pro Project #23
A J Moss

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:

Hudson's Bay Oil & Gas Co. Ltd.
320 Seventh Avenue S.W.
CALGARY 2, Alberta

June 16/71
#1,008.90
Minerals Exploration
Hoochekoo Project #23
A. J. Mos

DATE May 31, 1971 INVOICE NO. 204-71

P.O. NO.

TO:	Charge you with the charter of Bell 47G-3B-2 Helicopter CF-QJX Crew: Dunbar and Engst	
FLYING:	May 31, 1971 Daily Flight Report No. 3450	
	6.2 hours at $155.00 per hour (rate when carrier supplies fuel)	$ 961.00
PLUS:	Excess cost of fuel at following points:	
	Charterer assessed with cost of fuel over 60¢ per gallon	
	Carmacks - 23 gallons at 38¢ per gallon	8.74
	Minto - 89 gallons at 44¢ per gallon	39.16
	INVOICE TOTAL	$1,008.90

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

Rec Mitchell

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:
Hudson's Bay Oil and Gas Co. Ltd.
320 Seventh Avenue S.W.
CALGARY 2, Alberta

DATE May 12, 1971 INVOICE NO. 151-71

P.O. NO.

TO:	Charge you with the charter of Bell 206A JetRanger Helicopter CF-CEH Pilot: Tony Hanulik	
FLYING:	May 11, 1971 Daily Flight Report No. 9567	
	3.2 hours at $248.00 per hour (rate when carrier supplies fuel)	$793.60
PLUS:	Excess cost of fuel at Carmacks Charterer assessed with cost of fuel over 60¢ per gallon	
	20 gallons at 26¢ per gallon	5.20
	INVOICE TOTAL	$798.80

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

T
N
T

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:

Hudson's Bay Oil & Gas Co. Ltd
c/o R.G. Hilker Ltd.
P.O. Box 1566
Whitehorse, Yukon

Attention: Mr. Dave Mitchell

Date: August 31, 1971 Invoice No. 644-71

P.O. No.

TO:	Charge you with the following helicopter charters:	
	Bell 47G-3B-2 Helicopter CF-QJX Crew: Stringer & Kerklywich	
FLYING:	August 20, 1971 Daily Flight Report No. 8810	
	2.2 hours at $155.00 per hour (rate when carrier supplies fuel)	$ 341.00
PLUS:	Excess cost of fuel at Carmacks Charterer assessed with cost of fuel over $.60 per gallon	
	40 gallons at $.40 per gallon	16.00
PLUS:	Prorated crew expenses at Carmacks (½ cost of 2 men for one day)	14.00
	Bell 47G-3B-2 Helicopter CF-QJY Crew: Plaster, Stringer & Domonkos	
FLYING:	August 15, 17 & 30, 1971 Daily Flight Report No.'s 9100, 9103 & 9113	
	9.4 hours at $155.00 per hour (rate when carrier supplies fuel)	1,457.00
PLUS:	Excess cost of fuel at Carmacks Charterer assessed with cost of fuel over $.60 per gallon	
	169 gallons at $.40 per gallon	67.60
PLUS:	Prorated crew expenses at Carmacks	31.00
	INVOICE TOTAL	$1,926.60

TERMS: One per cent interest per month will be charged on all invoices not paid within one month of date issued.

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson's Bay Oil & Gas Co. Ltd.,
320 Seventh Ave., S.W.
Calgary 2, Alberta

DATE: June 18/71
INVOICE NO. 5143
CERTIFICATE NO. 14345-14352
ATTN: Mr. R.G. Hilker

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
315	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$787.50	
	Less 20%	157.50	
			$630.00

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson's Bay Oil and Gas Co. Ltd.,
320 Seventh Ave. S.W.
Calgary, Alberta

DATE Sept. 7, 1971
INVOICE NO. 6031
CERTIFICATE NO. 16341-16354
ATTN: Mr. D.C. Mitchell

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	"Hootch Project"		
	532 samples analyzed for Cu, Mo, Pb, Ag @$2.50	$ 1330.00	
	532 samples prepared @$0.20	106.40	
		$ 1436.40	
	less 20%	287.28	
			$ 1149.1[illegible]

Sept. 9/71
#1,149.12
Mineral Exploration
Hootchco Project #23
David Mitchell

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0618

Hudson's Bay Oil & Gas Co. Ltd.,
320 Seventh Ave. S.W.
Calgary 2, Alberta
"Hoochikoo Project"

DATE July 21/71.
INVOICE NO. 5479
CERTIFICATE NO. 15202-15216
ATTN:

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
600	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$1500.00	
	Less 20%	300.00	
			$1200.00

Aug 4/71
#1200.00
Minerals Exploration
-Hoochikoo Project #23
A. O. Moe

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0618

Hudson's Bay Oil & Gas. Co. Ltd.,
320 7th Ave., S. W.
Calgary. 2. Alta.

DATE July 22/71.
INVOICE NO. 5500
CERTIFICATE NO. 15217 to 15233
ATTN:

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	"Hoochikoo Project"		
736	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$1840.00	
	Less 20%	368.00	
			$ 1472.00

Aug 4/71
#1472.00

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson's Bay Oil & Gas Co. Ltd.,
320 7th. Ave. S.W.
Calgary 2, Alberta
"Carmacks Project"

DATE July 1/71
INVOICE NO. 5259
CERTIFICATE NO. 14577-14586
ATTN:

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
372	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$930.00	
372	Prepared @ $0.20	74.40	
		$1004.40	
	Less 20%	200.88	
			$803.52

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson Bay Oil & Gas Co. Ltd.,
320 - 7th AVe., S. W.
Calgary. 2. Alta.

DATE July 6/71
INVOICE NO. 5300
CERTIFICATE NO. 14730 to 14755
ATTN:

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	Samples from R. G. Hilker		
1049	Analysed for Copper, Molybdenum, Lead, Zinc @ $2.50	$2622.50	
	Less 20%	524.50	
			$2098.00

July 9/71
$2,098.00
Minerals Exploration
Hoochsheo Project #23
Vg Mass

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson's Bay Oil & Gas Co. Ltd.,
320 Seventh Ave. S.W.
Calgary 2, Alberta
"Carmacks Project"

DATE June 30/71
INVOICE NO. 5248
CERTIFICATE NO. 14564-14576
ATTN: Mr. Mitchell

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
519	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$1297.50	
519	Prepared @ $0.20	103.80	
		$1401.30	
	Less 20%	280.26	
			$1121.04

INVOICE

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

Hudson Bay Oil and Gas Company Ltd.,
320 - 7th Ave., S. W.
Calgary. 2. Alta.

DATE June 29/71
INVOICE NO. 5246
CERTIFICATE NO. 14558 to 14563
ATTN:

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
240	Analysed for Copper, Molybdenum, Lead & Silver @ $2.50	$600.00	
	Less 20%	120.00	
			$480.00

July 5/71
$480.00
Minerals Exploration
Hoachekoo Project #23
S. J. Moss

INVOICE

CHEMITEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0618

Hudson's Bay Oil and Gas Co. Ltd.,

320 Seventh Ave., S.W.

Calgary, Alberta

DATE Sept. 4, 1971

INVOICE NO: 6024

CERTIFICATE NO. 16330-16340

HOOTCH PROJECT

ATTN: Mr. Mitchell, Mr. Prowse

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	440 samples analyzed for Cu, Mo, Pb, Ag @$2.50	$ 1100.00	
	440 samples prepared @$0.20	88.00	
		$ 1188.00	
	less 20%	- 237.60	
			$ 950.40

Sept. 8/71
$ 950.40
Minerals Exploration
Hootchoo Project # 23
Gail Mitchell

TERMS—NET 30 DAYS

A/C

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE — YUKON

Attn D. Mitchell DATE 5/6 1971

NAME [illegible]

ADDRESS [illegible]

QUANTITY	DESCRIPTION	AMOUNT	
	[illegible]	954	98
	June 11/71		
	$954.98		
	Minerals Exploration		
	Hoochikoo Project #23		
	A.J. Moss		
	ok for payment		
	[illegible]		
	TAX		
REC'D BY	TOTAL	954	98

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D	PAID OUT	
			✓				CE-2

C LAWSON & JONES LTD., LONDON, ONT.

15813

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE — YUKON

DATE 24/7 19[illegible]

NAME [illegible]

ADDRESS [illegible]

QUANTITY	DESCRIPTION	AMOUNT	
	[illegible]	171	[illegible]
	ok for payment		
	[illegible]		
	TAX		
REC'D BY	TOTAL	171	[illegible]

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D	PAID OUT	
			✓				

C LAWSON & JONES LTD., LONDON, ONT.

16862

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE — YUKON

DATE 18/6 1971

NAME [illegible]

ADDRESS [illegible]

QUANTITY	DESCRIPTION	AMOUNT	
	[illegible]	77	63
	June 25/71		
	$77.63		
	Mineralys Exploration		
	Hotchkiss Project #23		
	[illegible]		
	[illegible]		
	[illegible]		
	TAX		
REC'D BY	TOTAL	77	63

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MISC. REC'D	PAID OUT	

LAWSON & JONES LTD., LONDON, ONT.

16052

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE — YUKON

DATE 29/6 1971

NAME [illegible]

ADDRESS [illegible]

QUANTITY	DESCRIPTION	AMOUNT	
	[illegible]	84	7
	July 2/71		
	$84.78		
	Mineralys Exploration		
	Hotchkiss Project #23		
	[illegible]		
	TAX		
REC'D BY	TOTAL	84	7

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MISC. REC'D	PAID OUT	

LAWSON & JONES LTD., LONDON, ONT.

16238

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE - YUKON

DATE June 11 1971

NAME Hudson Bay Oil & Gas

ADDRESS [illegible]

QUANTITY	DESCRIPTION	AMOUNT
4	[illegible]	26 94
4	[illegible]	2 71
1	[illegible]	7 68
		37 33
	[illegible] D. Mitchell	
	TAX	
	TOTAL	37 33

REC'D BY [illegible]

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D	PAID OUT
			✓			

RAWSON & JONES LTD., LONDON, ONT.

15921

RIVERSIDE GROCERY
BOX 2302 PHONE 667-7712
WHITEHORSE - YUKON

DATE 25/5 19[illegible]

NAME Hudson Bay Oil & Gas Co. [illegible]

ADDRESS 320 - 7th Ave. S.W.

QUANTITY	DESCRIPTION	AMOUNT
	Calgary 2, Alberta	
	[illegible]	
	[illegible]	150 [illegible]
	[illegible] D. Mitchell	
	TAX	
	TOTAL	150 [illegible]

REC'D BY

CLERK	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D	PAID OUT

RAWSON & JONES LTD., LONDON, ONT.

15685

PHONE 2811

FOODS LIMITED

EXT.	C.O.D.	DRIVER

SOLD TO: Hanson Bay
Gas + Oil Ltd
Box 9 Office S.C. Canada 2, Man

SHIP TO:
Mineral Exploration
Camp
Wauchope Creek

SLS'M

E 01452
INVOICE NUMBER

DATE: June 4, 1971

TERMS WEEKLY
ALL BILLS ARE DUE AND PAYABLE ON MONDAY FOLLOWING DATE OF DELIVERY

SHIP VIA:

ROUTE

	QUANTITY	DESCRIPTION	NO. PKGS.	SHIPPING WT.			NET WEIGHT	PRICE	AMOUNT
1	4	Sliced Bacon					5 1-	1 37	6 9 91
2	11	Rib Back Ribs Centres					4 9-	79	38 91
3	1	Baby Beef					12-	55	6 60
4	2	Sirloin Steak					21-	103	21 63
5	2	Cottage Rolls					10-	85	8 50
6	10 lb	Wiener Chops					15-	207	31 05
7	10 lb	Bacon					10-	94	9 40
8	5 lb	Back Bacon					24-	63	15 12
9	20 lb	Steak					15-	91	13 65
10	15 lb	Veal Chops					15-	88	13 20
11	5 lb	Veal Cutlets					20-	97	19 40
12	10 lb	Stewing Veal					10-	1 lb	6 60
13	3	Veal Loaf					33 8-	1 27	29 35
14	5	Veal Hamburg					45-	53	24 23
1	1	Hamburg					12- 1 lb	53 825	2 73

NO CLAIMS WILL BE ENTERTAINED AFTER 3 DAYS FROM DATE OF RECEIPT OF SHIPMENT. ALL CLAIMS FOR SHORTAGE OR DAMAGE MUST BE VERIFIED BY CARRIERS' AGENT AND SUPPORTED BY NOTATION ON THE FREIGHT RECEIPT.

TOTAL PIECES	GROSS WEIGHT	TARE	NET WEIGHT	TOTAL	AMOUNT
					322 57

7-65

THIS SALE MADE SUBJECT TO CONDITIONS ON BACK OF INVOICE

July 2/71
$326.59
Mineral Exploration
Wauchope Creek Project #23
Paid Mitchell

Paid Mitchell

WHITEHORSE, YUKON TERRITORY
PHONE 2311

FOODS LIMITED

EXT.	CKD.	DEL.

SOLD TO: [illegible] DAY OIL AND GAS COMPANY LTD.
[illegible] AVENUE S.W.
CALGARY, 3, ALTA.

SLSM

E1982
INVOICE NUMBER

TERMS WEEKLY
ALL BILLS ARE DUE AND PAYABLE
MONDAY FOLLOWING DATE OF DELI

SHIP TO: [illegible]

DATE:

CALLING TOMORROW 5:00

JUNE 20/71

SHIP VIA:

ROUTE

QUANTITY	DESCRIPTION	NO. PKGS.	SHIPPING WT.			NET WEIGHT	PRICE	AMOUNT
1	[illegible]					10 8	147	18
2	[illegible]					10 8	64	6
3	[illegible]					7 4	88	6
4	[illegible]					5 –	66	3
5	[illegible]					5 –	78	3
6	[illegible] 1 5					6 –	210	12
7	[illegible]					12 12	55	7
8	[illegible]					10 –	110	11
9	[illegible]					8 4	165	13
10	[illegible]							
11								
12								
13								
14								
15	[illegible]							

COPY

July 2/71
$82.90
Minerals Exploration
Hoarding Project # 23

TOTAL PIECES	GROSS WEIGHT	TARE	NET WEIGHT	TOTAL
				[illegible]

NO CLAIMS WILL BE ENTERTAINED AFTER 3 DAYS FROM DATE OF RECEIPT OF SHIPMENT. ALL CLAIMS FOR SHORTAGE OR DAMAGE MUST BE VERIFIED BY CARRIERS' AGENT AND SUPPORTED BY NOTATION ON THE FREIGHT RECEIPT.

1-68

THIS SALE MADE SUBJECT TO CONDITIONS ON BACK OF INVOICE

PHONE 2311

FOODS LIMITED

DT.	CRD.	DELIV.

SOLD TO: [illegible] DAY OIL AND GAS COMPANY LTD.
[illegible] SEVENTH AVENUE S.W.
CALGARY 2, ALTA.

SLSM.

B 3[illegible]
INVOICE NUMBER

SHIP TO:

DATE:

TERMS WEEKLY
ALL BILLS ARE DUE AND PAYABLE ON
MONDAY FOLLOWING DATE OF DELIVE

SHIP VIA: CALLING 1:00

ROUTE: [illegible] 18/71

	QUANTITY	DESCRIPTION	NO. PKGS.	SHIPPING WT.			NET WEIGHT	PRICE	AMOUNT
1							11 –	137	15 [illegible]
2	1	[illegible]					13 8	85	11 4
3	1	[illegible]					11 5	107	12 1[illegible]
4	1	[illegible]					4 10	87	4 [illegible]
5	1	[illegible]					7 –	88	6 1[illegible]
6	[illegible]	[illegible]					10 –	110	11 [illegible]
7	[illegible]	[illegible]					8 8	129	10 [illegible]
8	[illegible]	[illegible]					29 3	53	15 4
9	[illegible]	[illegible]							
10									
11									
12									
13									
14									

COPY

July 5/71
$80.28
[illegible] Exploration
Hoarichoo Project #23
[illegible]

NO CLAIMS WILL BE ENTERTAINED AFTER 3 DAYS FROM DATE OF RECEIPT OF SHIPMENT. ALL CLAIMS FOR SHORTAGE OR DAMAGE MUST BE VERIFIED BY CARRIERS' AGENT AND SUPPORTED BY NOTATION ON THE FREIGHT RECEIPT.

TOTAL PIECES	GROSS WEIGHT	TARE	NET WEIGHT	TOTAL
				86 [illegible]

1-68

THIS SALE MADE SUBJECT TO CONDITIONS ON BACK OF INVOICE

PHONE 2311

FOODS LIMITED

EXT.	CKD.	DRIVE

SOLD TO: [illegible]
[illegible]
[illegible]

SLSM.

INVOICE NUMBER: [illegible]

SHIP TO:

DATE:

TERMS WEEKLY
ALL BILLS ARE DUE AND PAYABLE ON MONDAY FOLLOWING DATE OF DELIVE

SHIP VIA: [illegible]

ROUTE: [illegible]

	QUANTITY	DESCRIPTION	NO. PKGS.	SHIPPING WT.			NET WEIGHT	PRICE	AMOUNT	
1	100	[illegible]					13 12	165	22	6
2	100	[illegible]					12 -	210	25	2
3	3	[illegible]					9 13	54	5	2
4	2	[illegible]					23 4	149	34	6
5	30	[illegible]					3 -	78	2	3
6	1	[illegible]					13 4	79	10	4
7										
8										
9										
10										
11										
12										
13										
14										

COPY

July 13/71
$100.62
Mineral Exploration
[illegible]
[illegible]

NO CLAIMS WILL BE ENTERTAINED AFTER 3 DAYS FROM DATE OF RECEIPT OF SHIPMENT. ALL CLAIMS FOR SHORTAGE OR DAMAGE MUST BE VERIFIED BY CARRIERS' AGENT AND SUPPORTED BY NOTATION ON THE FREIGHT RECEIPT.

TOTAL PIECES	GROSS WEIGHT	TARE	NET WEIGHT	TOTAL	100	3

1-68

THIS SALE MADE SUBJECT TO CONDITIONS ON BACK OF INVOICE

PHONE 2311

FOODS LIMITED

D.T.	C.O.D.	

SOLD TO: HUDSONS BAY OIL & GAS LTD
320 SEVENTH AVE. S.W.
CALGARY 2 ALTA.

SLSM. E 02441

INVOICE NUMBER

SHIP TO: CALLING THIS AFTERNOON

DATE: JULY 16/71.

TERMS WEEKLY
ALL BILLS ARE DUE AND PAYABLE ON MONDAY FOLLOWING DATE OF DELIVERY

FROZEN

SHIP VIA	QUANTITY	DESCRIPTION	ROUTE NO. PKGS.	SHIPPING WT.			NET WEIGHT	PRICE	AMOUNT
1	12	SIRLOIN STEAKS (6 to package)					21 12	1.65	35 [illegible]
2	1	ROUND ROAST 10#					13 -	1.33	17 29
3	10#	VEAL CHOPS					10 -	2.10	21 00
4	5#	GROUND ROUND					5 -	1.07	5 35
5	10#	PORK CHOPS					10 5	.83	9 01
6	10#	SLICED BACON					10 -	.74	7 40
7	1	BONELESS COOKED HAM (FULLMAN)					10 4	1.25	12 [illegible]
8	1	TURKEY 16#					12 2	.55	6 6[illegible]
9	12	FRYERS WHOLE					29 3	.54	15 7[illegible]
10	3/4	SALMON STEAKS					8 4	.88	7 [illegible]
11	2	SALAMI STICKS 1 LB					2	.79	1 5[illegible]
12	1 CS	Bread					1 oz	5.80	5 [illegible]
13	2	Boxtops					2-	.80	1 [illegible]
14									

HUDSON'S BAY OIL AND GAS COMPANY LIMITED
RECD. ON: July 17/71 ORDER NO.
FR. & APPROVED: 4447.43 CHECKED
CHARGED TO: Mrs. Sparks 2 Sparks Lane
VERIFIED BY: Mrs. Hall
FOR APPROVAL

TOTAL PIECES	GROSS WEIGHT	TARE	NET WEIGHT	TOTAL	147 [illegible]

NO CLAIMS WILL BE ENTERTAINED AFTER 3 DAYS FROM DATE OF RECEIPT OF SHIPMENT. ALL CLAIMS FOR SHORTAGE OR DAMAGE MUST BE VERIFIED BY CARRIERS' AGENT AND SUPPORTED BY NOTATION ON THE FREIGHT RECEIPT.

7-68

THIS SALE MADE SUBJECT TO CONDITIONS ON BACK OF INVOICE

AREA CODE 403

R. G. HILKER
LIMITED
CONSULTING GEOLOGIST . . . PROFESSIONAL ENGINEER
P.O. Box 1566
WHITEHORSE, YUKON TERRITORY
"LAND OF THE MIDNIGHT SUN"

Hudson's Bay Oil & Gas Co. Ltd.
320 Seventh Ave. S.W.
Calgary 2, Alberta

August 31, 1971 Re - Teslin, Carmacks Project

INVOICE # 2071

77-047	Northern Metalic		25.52
	Vehicle Rentals - R.G. Hilker Limited		
41365	August 16 - Minto Airstrip	155.00	
	August 31 - Dave Mitchell	45.00	
	August 31 - Midway Lodge	92.50	292.50
	Payroll		
41369	Ian Thomas - Month of August		750.00
	Expediting		
41369	Radio and Purchasing		100.00
	Telephone		
	Long distance August 2, 1971		1.00
	Total invoice		1169.02

OK for payment Chage Hoochikoo

David Mitchell

Sept. 8/71
$1169.02
Minerals Exploration -
Hoochikoo Project # 23
S. J. [illegible]
D. C. [illegible]

PHONE: OFFICE 667-2819
RES. 668-2822
AREA CODE 403

R. G. HILKER
LIMITED
CONSULTING GEOLOGIST . . . PROFESSIONAL ENGINEER
P.O. Box 1566
WHITEHORSE, YUKON TERRITORY
"LAND OF THE MIDNIGHT SUN"

Hudson's Bay Oil & Gas Co. Ltd.
320 Seventh Ave. S.W.
CALGARY 2, Alberta

June 29, 1971 Re: Carmacks Project

Invoice #2055

Reference

R.G. Hilker Limited

Truck Rental	June 5 - 6	$95.00	
	June 7	35.00	
	June 12	82.00	
	June 22	47.50	
	June 30	80.00	$ 339.50

Supplies

	10 gal. fuel barrel & cycle oil.....	13.00
76-004	Freight - Yukon Bus Lines Ltd.....	1.95
	Radio Rental - July.....	140.00
	Expediting June 1-30.....	100.00
	Wages - Iam Thomas June 2-30, 1971.....	750.00
	TOTAL INVOICE	$1,344.45

PHONE: OFFICE 667-2819
RES. 668-2822
AREA CODE 403

R. G. HILKER
LIMITED
CONSULTING GEOLOGIST . . . PROFESSIONAL ENGINEER
P.O. Box 1566
WHITEHORSE, YUKON TERRITORY
"LAND OF THE MIDNIGHT SUN"

Hudson's Bay Oil & Gas Co. Ltd.
Mineral Exploration Department
320 Seventh Avenue, S.W.
CALGARY, Alberta

MAY 31, 1971

Invoice 2045

Reference

R.G. Hilker Limited

	Radio Rental June 1 to 30, 1971		$ 140.00
	Vehicle Rental		50.00
	Expediting - Camp & Groceries		75.00
	Camp Supplies		
795-004	Consolidated Hydrocarbons Limited	$57.75	
	Mic Mac Motors (Yukon) Ltd	9.23	
		$66.98	
	Add 10% expediting fee	6.70	73.68
	TOTAL INVOICE		$ 338.68

June 8/71
$338.68
Minerals Exploration
Hudson's Bay Project #23
S.J. M

EASTERN ASSOCIATES RED'D

P.O. Box 3245
Whitehorse, Y.T.

June 14th, 1971

IN ACCOUNT WITH:

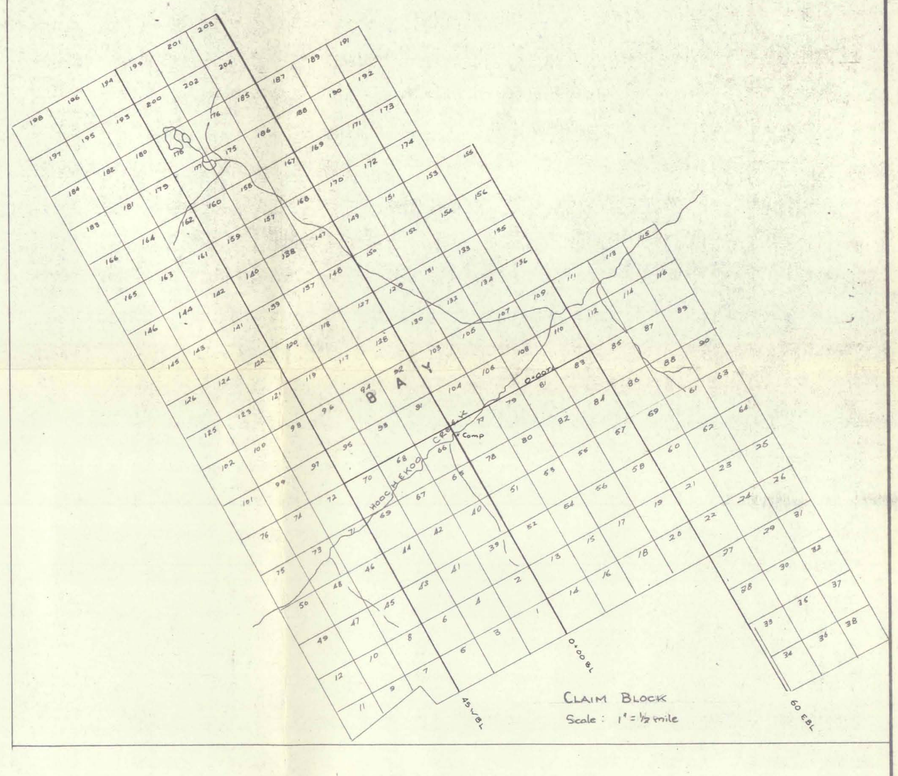
Hudson Bay Oil & Gas Company Ltd.
Whitehorse, Y.T.

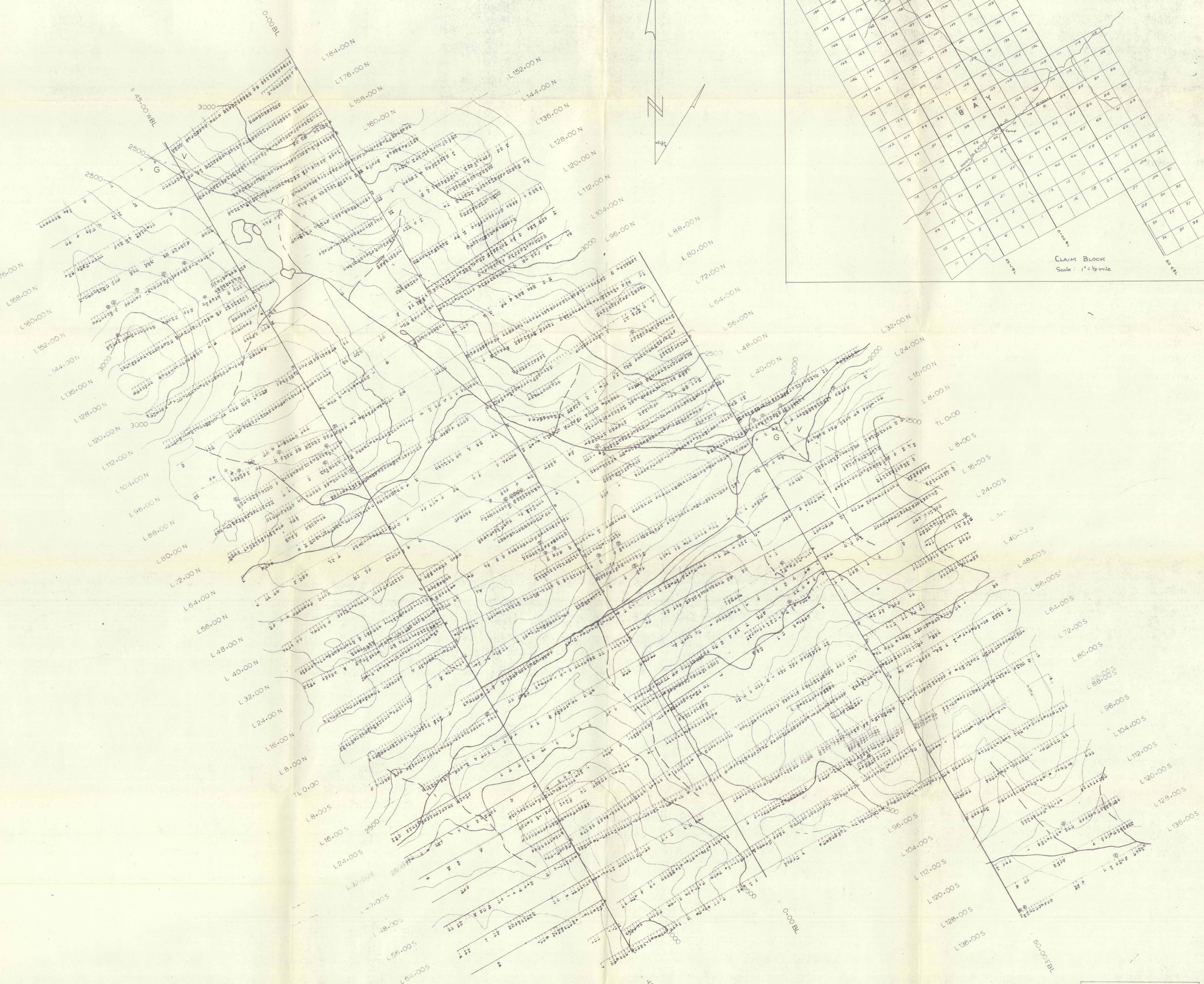
RE: Hoochikoo Project, 1971
Line Cutting Grid

17.15 miles @ $95.00 per mile $1,629.25

OK for payment
David Mitchell

June 25/71
#1,629.25
Mineral Exploration
Hoochikoo Project #23
A. J. Moss





LEGEND

G V — Volcanic contact (approximate)

Sample traverse
Humic content
Sample point
value in P.P.M.'S.

NOTE
The threshold over granitic rocks is : 50 ppm s
Over volcanic rocks : 75 ppm s

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
CALGARY ALBERTA

Revisions

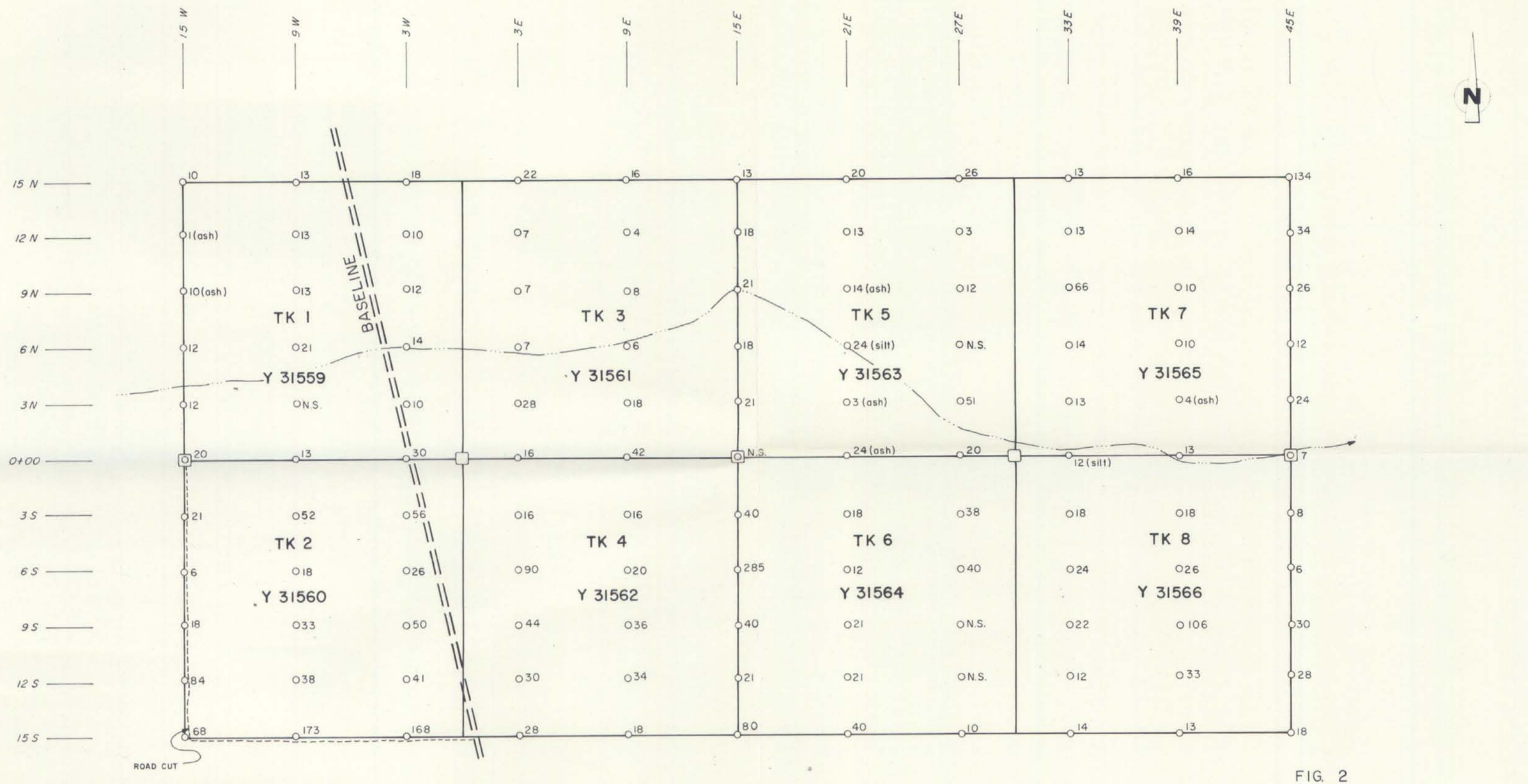
HOOCHEKOO PROJECT

GEOCHEMICAL PLAN MAP
COPPER IN SOIL
ALL VALUES

To accompany assessment report for the Bay Claims 1971

SCALE 1" = 1000' | AUTHOR : D. MITCHELL | DATE : Sept 1971
NTS No. 115-I-7

PLATE 1



LEGEND

○75 Soil sample point, copper assay in ppm

☐ Claim posts

FIG. 2

ARCHER CATHRO & ASSOCIATES LTD.

COPPER GEOCHEMISTRY-TK CLAIM OPTION

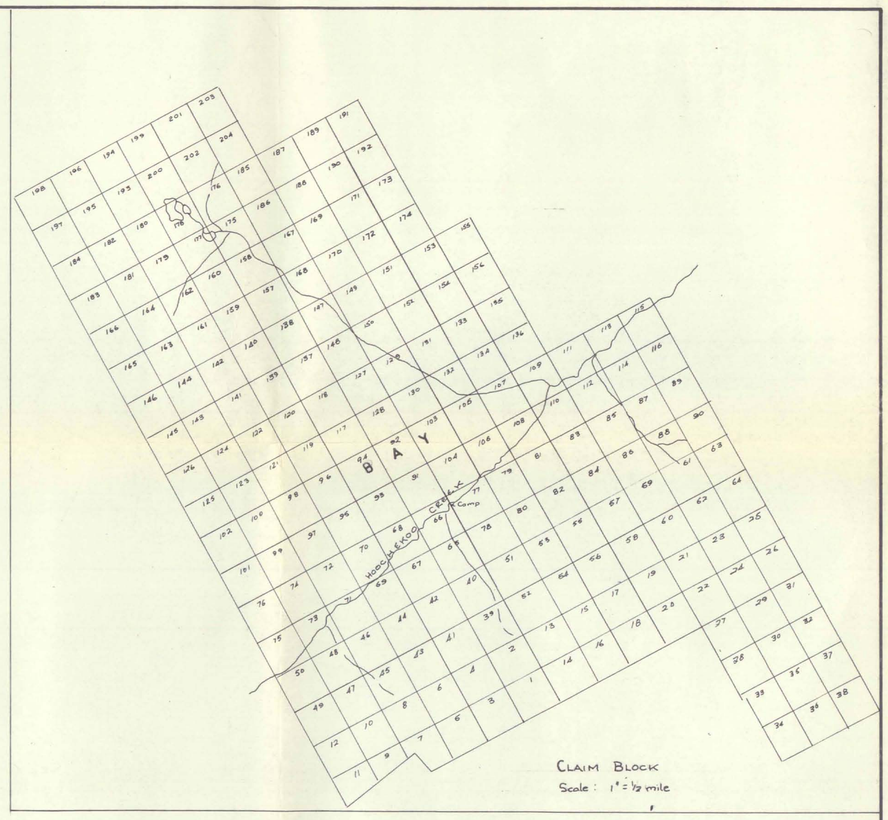
WILLIAMS CREEK PROPERTY

DAWSON RANGE JOINT VENTURE

SCALE IN FEET

500 0 500 1000

Geochemical analyses by nitric-perchloric extraction, Chemex Labs.



LEGEND

- Volcanic contact (approximate) — G · V
- Sample traverse
- Humic content
- Sample point
- Anomalous values in PPMS

NOTE
The threshold over granitic rocks is : 50 ppm s
Over volcanic rocks : 75 ppm s

2 Anomaly number
Anomaly outline

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
CALGARY ALBERTA

Revisions

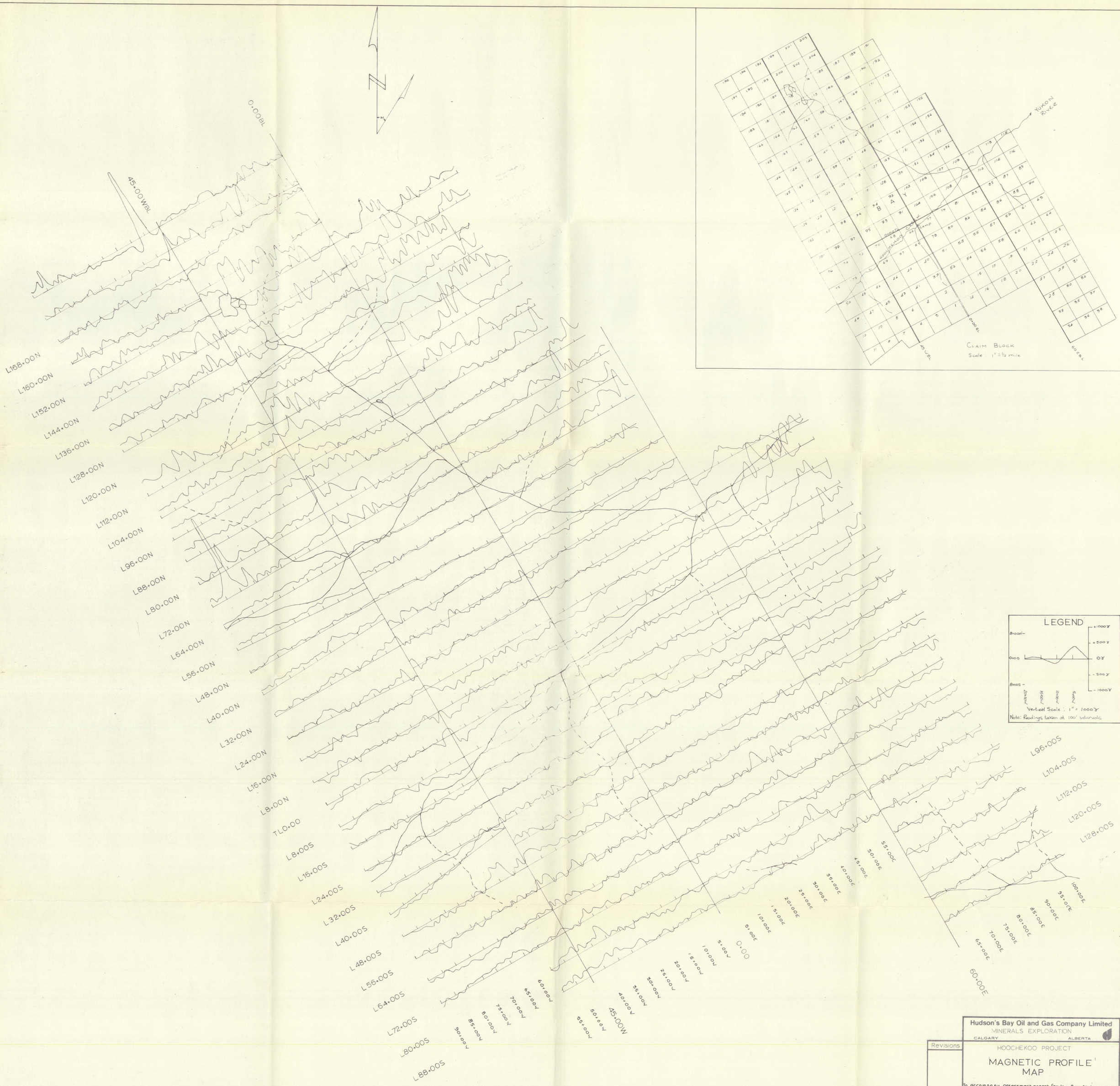
HOOCHEKOO PROJECT

GEOCHEMICAL PLAN MAP
COPPER IN SOIL
ANOMALOUS VALUES

To accompany assessment report for the Bay Claims 1971

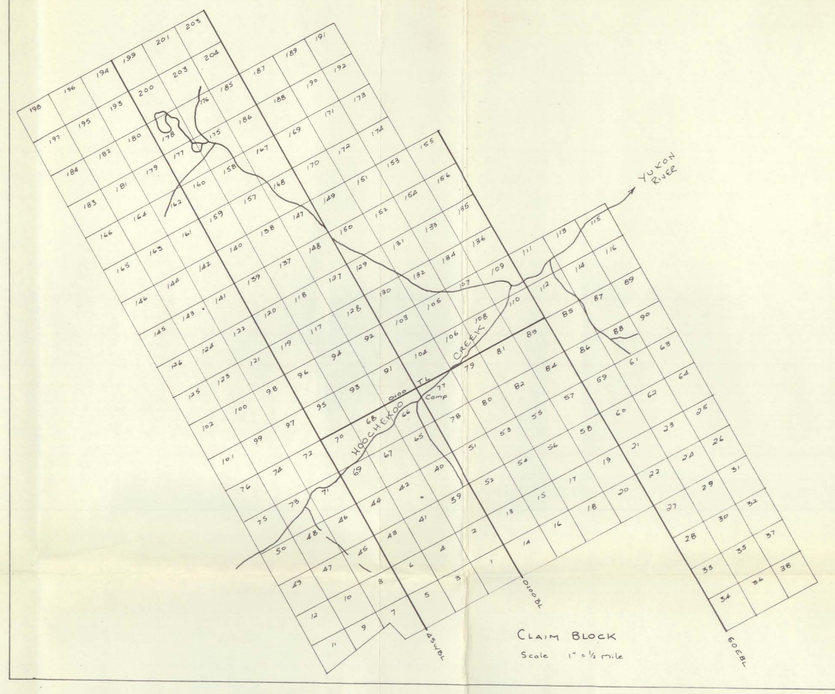
SCALE: 1"=1000'	AUTHOR: D.MITCHELL	DATE: Sept 1971
NTS No. 115-1-7		

PLATE 2



Revisions	Hudson's Bay Oil and Gas Company Limited MINERALS EXPLORATION CALGARY ALBERTA HOOCHEKOO PROJECT MAGNETIC PROFILE MAP To accompany assessment report for the Bay Claims 1971 SCALE: 1"=1000' AUTHOR: D. MITCHELL DATE: Sept 1971 NTS N.: 115-I-7

PLATE 3



LEGEND

- 4 — Basalt flow or dyke (Carmacks Volcanics?)
- 3d — Minor pegmatite
- 3c — Granodiorite
- 3b — Fine grained leuco-granite
- 3a — Porphyritic granite
- 2 — Mafic intrusives
- 1 — Andesite (Mount Nansen Volcanics)
- A — Conglomerate (Laberge Series??)
- Geological contact
- Outcrop

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
CALGARY ALBERTA

Revisions

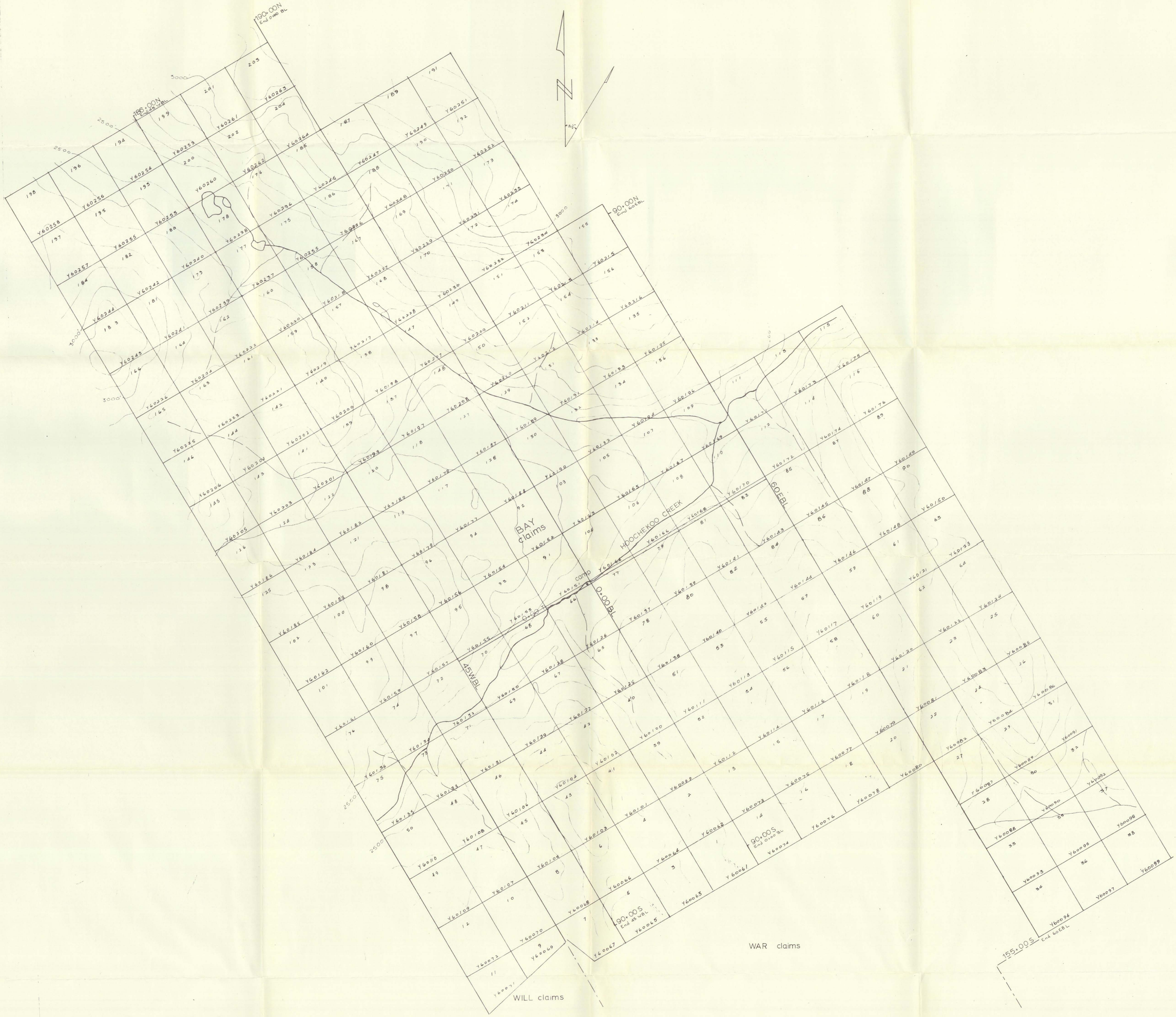
HOOCHEKOO PROJECT

GEOLOGICAL MAP

To accompany assessment report for the Bay Claims 1971

SCALE: 1" = 1000' | AUTHOR: D. MITCHELL | DATE: Sept 1971
NTS No.: 115-I-7

PLATE 4



REVISIONS

Hudson's Bay Oil and Gas Company Limited
MINERALS EXPLORATION
CALGARY ALBERTA

HOOCHEKOO PROJECT

CLAIM MAP

To accompany assessment report for the Bay Claims 1971

MAP	DATE	BY	SCALE	N.T.S.
	SEPT. 1971	D.C.M.	1" = 1000'	115-1-7