



COMINCO LTD.

EXPLORATION

WESTERN DISTRICT  
September 5, 1975

DIAMOND DRILL ASSESSMENT REPORT

ON THE

DEA GROUP OF MINERAL CLAIMS

BONNET PLUME RIVER AREA

YUKON TERRITORY

N.T.S. 106C/11

64° 43' Latitude  
133° 00' Longitude

Period of Work: June 25, 1975 to July 7, 1975

Vancouver, British Columbia

M.S. Travis

091299

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT  
5 September 1975

DIAMOND DRILLING 1975

This report is submitted in order to fulfill the requirements for assessment work on the below-mentioned claims due on September 13, 1975 and September 25, 1975.

Using a Boyles Brothers BBS-1 drill taking BQ core, a series of 3 diamond drill holes totalling 1103 feet were drilled on the DEA claims during the period from June 25, 1975 to July 7, 1975, including mobilization time. The 3 holes were angle holes at dips -65°, -55° and -45° respectively. All core including the remainder of those sections split for assay is stored on the property located at 64° 43' 50"N, 132° 59' 34"W on the west bank of Corn Creek.

The accompanying diamond drill logs include detailed geologic descriptions of the rocks intersected as well as all assay results. All rocks intersected in the drilling are dolomites or fine clastic sediments and belong to the Upper Proterozoic (Hadrynian) Keele Formation.

A surface plan at a scale of 1 inch = 1/2 mile locates the 3 holes drilled in 1975 with respect to the claim boundaries on claims DEA 8 and 35. The distribution of footage drilled is as follows:

<u>HOLE NO.</u>	<u>FEET ON DEA 35</u>	<u>FEET ON DEA 8</u>	<u>TOTAL</u>
DEA 75-1	398	---	398
DEA 75-2	---	407	407
DEA 75-3	298	---	298
	<u>      </u>	<u>      </u>	<u>      </u>
TOTALS:	696	407	1103

Attached to this report are location maps at scales of 1 inch = 80 miles and 1 inch = 8 miles and a claim map of the DEA group showing drill sites and core storage location. Also included is a Statement of Expenditures incurred during the period from June 25, 1975 to July 7, 1975 supported by an Affidavit.

Report by:

Steve Travis  
M. S. Travis  
Geologist

Endorsed by:

D. W. Heddle  
D. W. Heddle  
Chief Geologist

Approved for  
Release by:

W. T. Irvine  
W. T. Irvine  
Manager, Exploration  
Western District

IN THE MATTER OF THE  
YUKON QUARTZ MINING ACT

AND

IN THE MATTER OF A DIAMOND DRILL SURVEY  
CARRIED OUT ON MINERAL CLAIMS DEA 1-72  
Located in the Mayo Mining District of the  
Yukon Territory  
More Particularly, NTS 106 C/11

A F F I D A V I T

I, STEVEN TRAVIS OF THE DISTRICT OF NORTH VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, GEOLOGIST, MAKE OATH AND SAY:

1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD. AND, AS SUCH, HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DEPOSE;
2. THAT ANNEXED HERETO AND MARKED AS EXHIBIT "A" TO THIS MY AFFIDAVIT IS A TRUE COPY OF EXPENDITURES ON A DIAMOND DRILL SURVEY CARRIED OUT ON MINERAL CLAIMS DEA 8 AND 35.
3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 25TH DAY OF JUNE, 1975 AND THE 7th DAY OF JULY, 1975 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED CLAIM GROUP.

Sworn Before Me at the City )  
of Vancouver in the Province )  
of British Columbia this )  
12<sup>th</sup> day of September )  
1975. )

M. Brown )  
A NOTARY PUBLIC IN AND FOR THE )  
PROVINCE OF BRITISH COLUMBIA. )

Steve Travis  
M. STEVEN TRAVIS

EXHIBIT "A"

DIAMOND DRILLING REPORT ON THE  
DEA GROUP OF MINERAL CLAIMS

Situate at:

64° 43' Latitude  
133° 00' Longitude

Salaries:

M. S. Travis	13 days	1,030.00
R. D. Deobald	13 days	787.00

Transportation:

Helicopter and fuel	14,116.00
Fixed Wing	2,403.00

Diamond Drilling:

1103 feet	17,545.00
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Assays:

788.00

Camp Costs:

Expediting, Equipment	742.00
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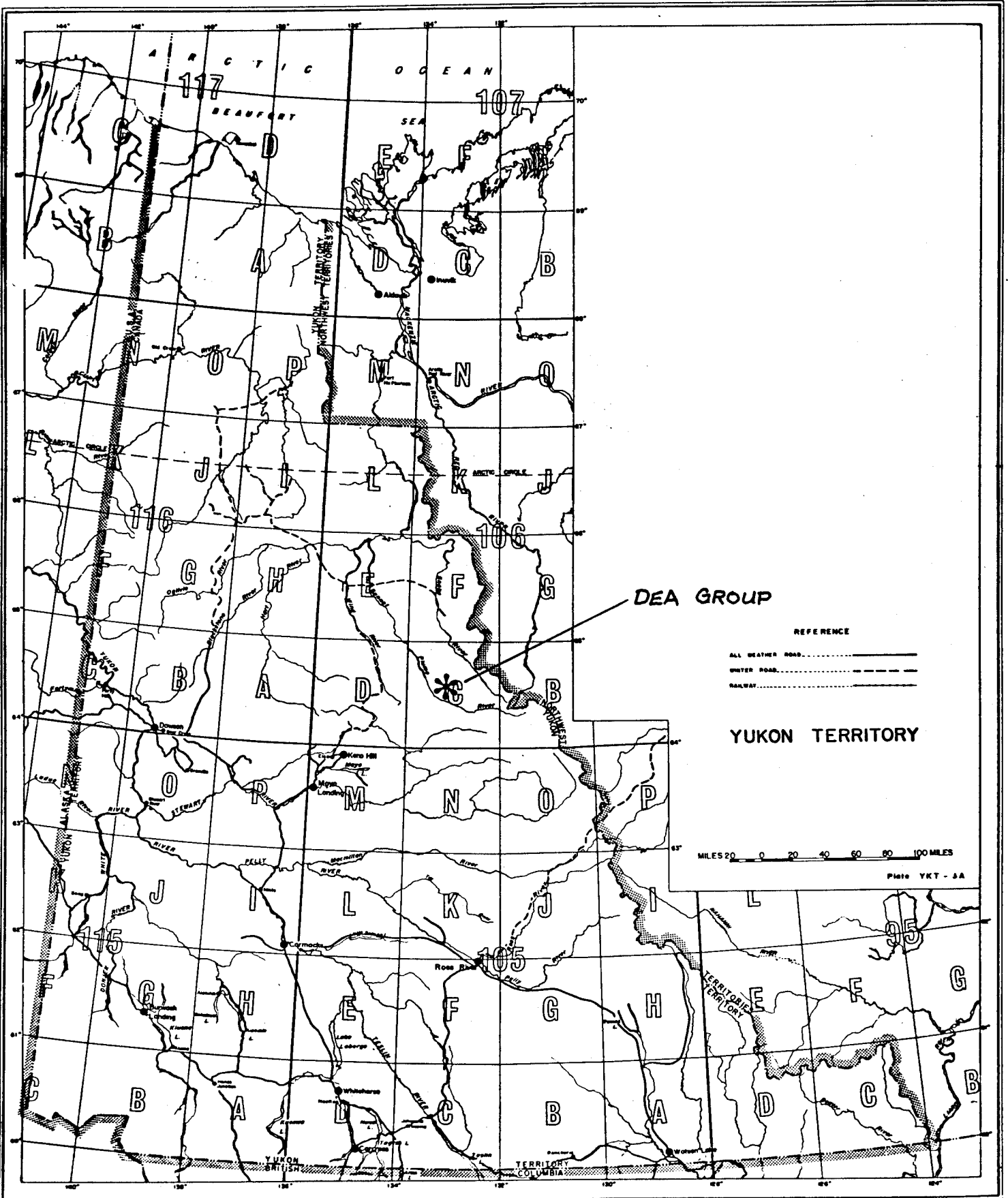
TOTAL: \$ 37,411.00

SIGNED:

Steve Travis  
M. S. TRAVIS

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF EXPENDITURES  
RELATING TO THE DIAMOND DRILL SURVEY DECLARED BEFORE ME ON THE  
12<sup>th</sup> DAY OF SEPTEMBER, 1975 A.D.

M. Brown  
A NOTARY PUBLIC IN AND FOR THE  
PROVINCE OF BRITISH COLUMBIA



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

# LOCATION MAP DEA GROUP

Scale: 1" = 80 miles      Date:      Plate:



134°

133°



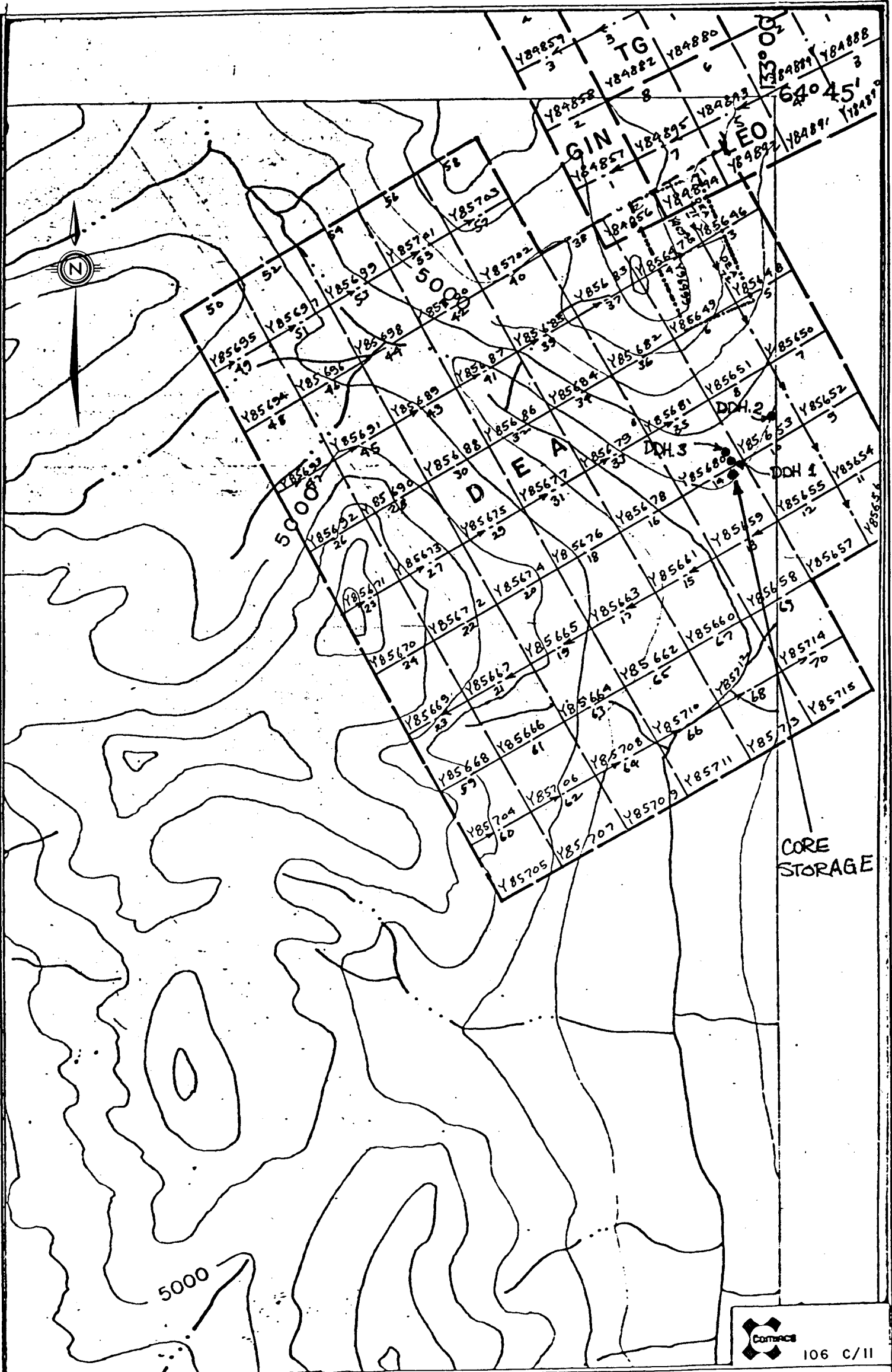
Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

133°

## LOCATION MAP

### DEA GROUP

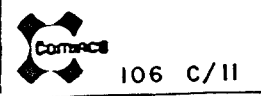
Scale: 1" = 8 miles      Date:      Plate:



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

**CLAIM MAP**  
**DEA GROUP**

Scale: 1" = 1/2 miles      Date: \_\_\_\_\_      Plate: \_\_\_\_\_





# Drill Hole Record

Property DEA District MAYO Hole No. DEA 75-1  
 Commenced June 28/75 Location CORN CREEK Tests at Whitehorse Assay Office Hor. Comp.  
 Completed June 30/75 Core Size BQ Corr. Dip -65° Vert. Comp.  
 Co-ordinates 64°43'N; 133°00'W True Brg. 295° Logged by M.S. Travis  
 Objective Test Geochemical Soil Anomaly % Recov. 65% Date July 2/75

Claim DEA  
 T Brg. 295°  
 Collar Dip -65°  
 Elev. 3800  
 Length 398'  
 Hole No. DEA 75-1  
 Sheet 106C/11

Footage From To	Description	Sample No.	Length	Analysis					
				Pb	Zn	Cd			
0 - 14	Overburden								
14 - 48	Light to medium grey fine grained dololomite. Fractures from 1 mm to 10 mm filled with white to brown, often coarse grained dolospar. Random patch of sphalerite in white dolospar or along hairline fractures between 16' and 28.5' and 33' to 48'. Section from 21' to 23.5' extensively replaced by white dolomite; dark brown sphalerite 3-4% and extensive pyrite.	14905I 14906I 14907I 14908I 14909I	16-21 21-23.5 23.5-28.5 33-36 36-41	.01 .05 .01 .01 .01	.02 1.12 .01 .01 .01		Tr		
48 - 55	Dark grey to black fine to medium grained dololomite with fractures .5 mm to 5 mm filled with white dolospar. Minor amounts of sphalerite on random stringers and as small patches, less than 3 mm wide in larger fractures of white dolospar.	14910I 14911I 14912I	41-48 48-51 51-56	.01 .01 .01	.01 .14 .10				
55 - 72	Medium grey dololomite intensely brecciated by faulting. White dolospar replacing light grey matrix and approximately 5% pyrite rimming medium grey fragments. Minor patches and fractures of sphalerite scattered randomly up to 64' and from 68'-69', 71'-72'.	14913I 14914I 14915I 14916I	56-61 61-66 66-71 71-75	.01 .01 .03 .01	.01 .05 .30 .01				
72 - 91	Medium grey very fine grained massive dololomite. Very minor stringers with sphalerite and sphalerite and pyrite on slickensides at 72'-75', 79.5'-82'.	14917I	79.5-82	.03	.04				
91 - 133	Same rock type as above in fault breccia. Extreme fracturing and rotation of primary fragments. Many irregular patches of white dolospar. Pyrite rimming occasional fragment and in stringers. Minor .5 mm fractures filled with sphalerite and also along slickensides. Slight increase in both pyrite and sphalerite from 128' to 134'.	14918I 14919I 14920I 14921I	90-95 105-109 113-118 118-123	.04 .01 Tr Tr	.05 .01 .02 .08				
133-158	Dark grey dololomite with some areas of recrystallization to coarse grained dolomite. Many large fractures filled with coarse white dolospar. Slickensiding on many fractures near 134'. Abundant pyrite disseminated through rock. Sphalerite occurs as fine grained patches	14922I 14923I 14924I	123-128 128-134 134-138	.01 .01 .03	.06 .18 .29				



## Drill Hole Record



Property	DEA	District	Hole No.	DEA 75-1
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet 2

Footage From To	Description	Sample No.	Length	Analysis			
				Pb	Zn	Cd	
	disseminated through rock from 134'-138' plus coarse sphalerite on fractures	14925I	138-142	.01	.20		
	and in white dolospar from 134' to 157'.	14926I	142-147	.01	.01		
158 - 160	Medium grey green and white finely interlaminated shaly dolomite. Abundant pyrite as	14927I	150-156.5	Tr	.01		
	disseminated euhedral crystals .1 mm wide and as irregular patches 5-6 mm across.	14928I	156.5-162	.01	.01		
160 - 171	Dark grey to black and light grey finely interlaminated shaly dolomite grading into	14929I	168-172	.01	.05		
	black massive sucrosic dolarenite at 168'. Occasional crosscutting stringer of white dolospar.						
	Pyrite still as disseminated crystals and patches.						
171 - 177	Dark grey massive fine grained dololutite with irregular patches of pyrite along	14930I	172-177	.01	.01		
	white dolospar filled fractures up to 177'.						
177 - 199	Medium grey very fine grained dololutite with fractures filled with and replaced with	14931I	190-195	.01	.02		
	coarse white dolospar. Very small sections contain disseminated crystals and patches	14932I	195-200	.09	.20		
	of pyrite. 190' to 195' is extensively replaced by coarse white dolospar and there are						
	minor patches of sphalerite from 190'-195' and 195.5' to 199'.						
199 - 222.5	Same rock as above with large patches of coarse white dolospar, minor recrystallized zones	14933I	200-205	.78	1.10	.01	
	and frequent large fractures. Disseminated crystals and patches of galena and pyrite.	14934I	205-210	.04	1.16	.01	
	Abundant stringers of sphalerite and some fine grained patches of red to black sphalerite	14935I	210-215	.14	.40	Tr	
	as disseminations in primary rock.	14936I	215-220	.03	.84	Tr	
222.5-230	Same rock type as above extremely brecciated from 222.5'-225', 226'-230'. Minor disseminated	14937I	223-226.5	.04	.84	.01	
	galena. Frequent stringers of pyrite and sphalerite.	14938I	226.5-231.5	.01	.02		
230-238.5	Dark grey shaly dolomite with wavy laminations interbedded with medium grey, medium						
	grained dolarenite. Minor disseminated patches of pyrite less than 4 mm wide.						

# Drill Hole Record



Property DEA District \_\_\_\_\_ Hole No. DEA 75-1

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Claim \_\_\_\_\_ T Brg. \_\_\_\_\_ Collar Dip \_\_\_\_\_ Elev. \_\_\_\_\_ Length \_\_\_\_\_ Hole No. \_\_\_\_\_

Footage		Description	Sample No.	Length	Analysis					
From	To				Pb	Zn	Cd			
238.5	285.5	Light grey dolarenite with extensive replacement by patches of white dolomite. Minor amounts of pyrite and sphalerite in and around white dolomite.	14939I	239-244.5	.01	.12				
			14940I	244.5-249.5	.20	1.14	.01			
285.5	349	Medium grey fine grained spotted dololutite. Spots come from 2-5 mm patches of white dolomite. Rare 2-3" section of shaly pyritic dolomite. Rare patch of disseminated pyrite in the dololutite. Thin stringers of sphalerite near 347'.	14941I	249.5-245.5	.10	1.14				
			14942I	245.5-259.5	.01	.26				
			14943I	266-271	.01	.07				
349	395	Same rock as above with extreme fault brecciation with 100% filling by white dolospar. Grades gradually into intense fracturing near 380'. Minor sphalerite and frequent pyrite on slickensides and fractures from 372' - 394.	14944I	378-383	.06	.10				
			14945I	383-388	.01	.12	Tr			
			14946I	388-393	.09	1.16				
395	398	Dark grey laminated shaly dolomite. Frequent fractures both parallel to and crosscutting laminations filled with dolospar.	14947I	393-398	.01	.04				
398		End of Hole.								

## Drill Hole Record



Property	DEA	District	MAYO	Hole No.	DEA 75-2
Commenced	July 2/75	Location	CORN CREEK	Tests at	Whitehorse Assay Office
Completed	July 4/75	Core Size	BQ	Corr. Dip	-55°
Co-ordinates	64°43'N; 133°00'W			True Brg.	300°
Objective	Test Geochemical Anomaly			% Recov.	90%
				Date	July 6/75

Claim	DEA
T Brg.	300°
Collar Dip	-55°
Elev.	3900'
Length	407'
Hole No.	DEA 75-2
Sheet	106C/11

Footage From To	Description	Sample No.	Length	Analysis		
				%Pb	%Zn	%Cd
0 - 30	Overburden	14948	40-44	.01	.01	
		14949	50.5- 55.5	.01	.02	
30 - 79	Medium grey fine grained dololomite, many small vugs from 30'-32'. Rock has spotted appearance in places due to replacement by white dolospar. Trace amounts Zn in rare random patches of green-yellow to dark brown sphalerite less than 2 mm wide in small vugs filled with silica.	14950	55.5- 59.5	.01	.03	
	Random disseminated crystals of pyrite in rock and as oxide on fractures.	7801	65.5	.03	.01	
		7802	70-75	.03	Tr.	
		7803	75- 80.5	.03	.01	
		7804	88- 93	.13	.42	
79 - 118	Same rock as above with stromatolite laminae. Few fractures, all less than 5 mm wide filled with white dolospar and minor sphalerite. Some carbon in fractures and galena in random patches in vugs from 90-95'.	7805	93- 96	.08	.16	
		7806	96- 99	.04	.06	
		7807	110- 115	.03	.03	
		7808	115- 119	.03	.02	
118 - 147	Same rock type as above with pisolites. Minor sphalerite on stringers less than 1 mm wide. Minor shaly sections less than a foot in length and rock has a brecciated appearance from 126-146'.	7809	119- 125	.03	.02	
		7810	125- 130	.08	.12	
		7811	146.5- 149.5	.05	.08	
147 - 407	Same rock type as above, slightly finer grained, massive with rare fracturing. Sphalerite in fractures approximately 2-4 mm wide from 160'-163' and at 172'. Slightly brecciated from 274'-278'. Replacement by coarse white dolospar along fractures and around primary fragments from 278' to end of hole. Random patches of sphalerite in white dolospar from 345'-365'. Minor galena near 360'. Many vugs filled with coarse calcite crystals from 315' to 320'.	7812	157.5- 163.5	.08	.50	Tr.
		7813	167- 172	.03	.22	
		7814	182.5- 184.5	.01	.30	
		7815	188.5- 191	.04	.10	
		7816	344.5- 349.5	.09	.08	
407	End of Hole.	7817	349.5- 352	.13	.01	

# Drill Hole Record



Property \_\_\_\_\_ DEA \_\_\_\_\_ District \_\_\_\_\_ Hole No. DEA 75-2

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Footage		Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
From	To										
			9818	359- 361	1.18				.58		
			9819	367- 372	.03				Tr.		
			9820	382- 386	.03				.03		
			9821	402- 407	.08				.20		

## Drill Hole Record



Property	DEA	District	MAYO	Hole No.	DEA 75-3
Commenced	July 6/75	Location	CORN CREEK	Tests at	Whitehorse Assay Office Hor. Comp.
Completed	July 7/75	Core Size	BQ	Corr. Dip	-45° Vert. Comp.
Co-ordinates	64°43'N; 133°00'W			True Brg.	300° Logged by M.S. Travis
Objective	Test Extension of Mineralized Zone			% Recov.	80% Date July 7/75

Claim  
DEAT Brg.  
300°Collar Dip  
-45°Elev.  
3840'Length  
298 ft.Hole No. Sheet  
DEA 75-3 106C/11 1

Footage From To	Description	Sample No.	Length	Analysis		
				%Pb	%Zn	%Cd
0 - 15	Overburden					
15 - 58.5	Medium to dark grey medium grained finely laminated dolarenite. Highly folded and fractured. Fractures run parallel to and crosscutting laminae and are filled with white dolospar and minor sphalerite. Occasional 6 inch section of brecciation with filling of dolospar.	9822 9823 9824 9825 9826	15-18 18-22.5 23.5-25.5 25.5-31 36-38.5	.03 .03 .06 .03 .05	.08 .10 .12 .04 .03	
58.5 -129	Medium grey fine grained dololutite slightly laminated up to 65' mark. Largely massive with few fractures and only minor replacement by dolospar except for two 6 inch replacement sections of white dolospar at 88.5' and 127'. Both of these sections have sphalerite and galena patches between 5% and 10%. Lower grade sphalerite mineralization with pyrite along fractures around these higher grade sections. Frequent patches of pyrite less than 3 mm wide are scattered randomly through the rock. Minor algal laminations from 114.5' to 127' and pyritic shaly lens from 113' to 114.5'.	9827 9828 9829 9830 9831 9832 9833 9834	52-57 79.5-82 82-85 85-89.5 89.5-91.5 91.5-96 96-98 100-104	.03 .01 .25 .05 .01 Tr. .01 .10	.01 .01 .14 2.76 .06 .03 .09 .95	.01
129 - 154.5	Medium grey medium grained sucrosic dolarenite with stromatactoid texture from 130' to 138'. Minor pyrite and sphalerite on small stringers.	9835 9836 9837	104-109 109-113 113-115.5	.01 .01 .01	.01 .01 .03	
154.5 - 169	Finely laminated black fine grained dolomite. Only minor crosscutting fractures except for well brecciated section from 167 to 169. Minor disseminated crystals and patches of pyrite along laminations. Trace amounts of sphalerite in breccia zone.	9838 9839 9840 9841	119-121 122-124.5 124.5-129 129-134.5	.03 .01 .14 .01	.24 .03 .54 .12	

## Drill Hole Record



Property \_\_\_\_\_ DEA \_\_\_\_\_ District \_\_\_\_\_ Hole No. DEA 75-3

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Footage		Description	Sample No.	Length	Analysis		
From	To				%Pb	%Zn	
169	208	Medium grey fine grained massive dololomite with large fractures healed and partly replaced by coarse white dolospar. Galena on hairline fractures and both galena and sphalerite in larger fractures between 1 and 3 mm and on slickensides from 169 to 198'.	9843	134.5-140	.01	.03	
			9842	140-144	.01	.05	
			9844	144-149	.01	.01	
			9845	149-154	.05	.03	
208	216.5	Medium grey medium grained dolarenite. Minor pyrite along small irregular hairline fractures.	9846	154-157.5	.04	.04	
			9847	157.5-164	.01	.03	
216.5	298	Fine grained medium grey dololomite with extensive replacement with white dolospar. Pyrite on fractures. Minor pyritic shaly dolomite lens from 227' to 229' and extensive fault gouge from 228'-249' and from 262'-270'. Minor random fractures 1 mm wide filled with sphalerite.	9848	164-168	.03	.09	
			9849	171-176.5	.01	.12	
			9850	178.5-182.5	.24	.27	
			14051	182.5-186.5	.60	.42	
			14052	186.5-192	.03	.03	
			14084	192-198	.85	.54	
			14085	206-211	.05	.06	
			14086	216-221.5	.05	.11	
		14087	256-261	.03	.02		
		14088	271.5-279.5	.03	.07		

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet 2