



GEOLOGICAL, GEOCHEMICAL REPORT

ON THE

ORK 1-36 MINERAL CLAIMS

YA 46061-084; YA 46182-193

N.T.S. 105 C/9

Lat. $60^{\circ}38'N$

Long. $132^{\circ}22'W$

WATSON LAKE MINING DISTRICT
YUKON

by

J.C. STEPHEN

090886

Work Done: July 25-August 9, 1981

by: J.C. Stephen Explorations Ltd.

Funded by: D.C. Syndicate



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 3,600.00.

R. Debicki
DEBICKI

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.



FROM: Mining Recorder at Watson Lake

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



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name: _____ Lease No _____

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

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name: _____ Lease No _____

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

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

DIAMOND DRILL LOGS:
Claims: _____ Claim sheet no. _____

QUARTZ ASSESSMENT REPORT
Claims: ORK 1-36 Claim sheet no. 105 cl9

Type of report: Geology
Geo Chem. Submitted by: J.C. Stephen Exploration

Cls. work performed on: ORK 1-36 \$ Req. for ren. application: \$3600-

[Signature]
Signature

REPLY ACTION.

Date Ret.

Signature



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



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

I (Name)	J.C. STEPHEN	Occupation	PROSPECTOR
(Postal Address)	1/6 J.C. STEPHEN EXPLORATIONS LTD 1458 RUPERT ST, NORTH VANCOUVER BC		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):

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

ORK 1-16 YA 46061-076
17-24 YA 46182-189
25-32 YA 46077-084
33-36 YA 46190-193

situated at WEST ~~END~~ OF FISH LAKE BETWEEN WOLF + NISITLIN R. Claim Sheet No. 105C19
in the WATSON LAKE Mining District, to the value of at least \$3600
dollars, since the 20th day of SEPTEMBER 19 80

to represent the following mineral claims under the authority of Grouping Certificate No. _____

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 46061-076	ORK 1-16	ONE YEARS RENEWAL REQUESTED FOR EACH CLAIM.
YA 46182-189	ORK 17-24	
YA 46077-084	ORK 25-32	
YA 46190-193	ORK 33-36	

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

GEOLOGICAL MAPPING, SOIL TALUS AND ROCK GEOCHEMISTRY BY
D. FERGUSON JULY 25 - AUG 9, AUG 27
L. FABULLO JULY 25 - AUG 9
E. SIDBY AUG 1 - AUG 9
K. D'ARCY AUG 1 - AUG 9
J.C. STEPHEN JULY 29 + REPORT

A REPORT DETAILING WORK DONE WITH COSTS FOR WAGES, FOOD, LAB ANALYSIS AND HELICOPTER TOTALLING IN EXCESS OF \$3600 TO BE SUPPLIED BY OCT 25/81

Sworn before me at Smithers BC
this 14th day of September 19 81

[Signature]
Notary Public

[Signature]
Applicant

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GEOLOGICAL, GEOCHEMICAL REPORT

on the

ORK 1-36 MINERAL CLAIMS

INTRODUCTION

Prospecting was done by D.C. Syndicate crews during 1976 in part of map sheet 105C/9 which succeeded in locating skarn zones which were staked as the ORK 1-36 claims during 1979.

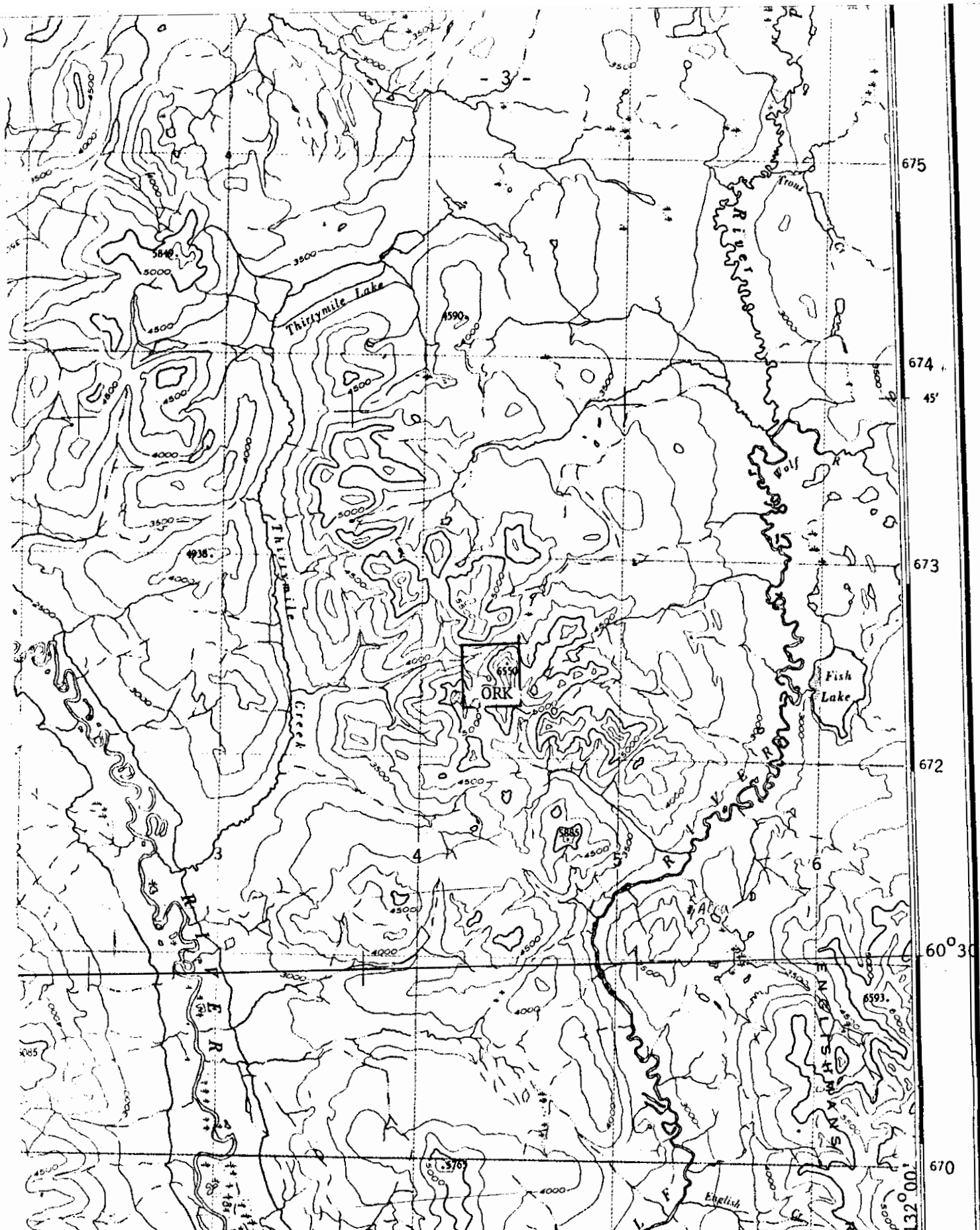
Some soil, talus and rock geochemical sampling, with preliminary geological mapping, was done during 1980. That survey did not find specific mineralized zones but did show that anomalous values in tin and tungsten did occur and that there was some evidence of granitic intrusives.

During 1981 a crew of two to four persons carried out more complete mapping using enlarged air photos and did additional sampling and prospecting. Some low, but anomalous values for tin were obtained with somewhat higher results for tungsten. Pieces of float were located which contain significant copper with low zinc and silver values.

LOCATION AND ACCESS

The ORK claims lie at the height of land between the Wolf and Nisutlin River (Figure 1). The main peak on the property reaches an elevation of 6,550 feet.

This location is 34 miles northeast of Teslin and 60 miles northwest of Swift River on the Alaska highway. Because of the concentration of exploration activity in the Swift River area, all access to the property was by means of helicopter from that base.



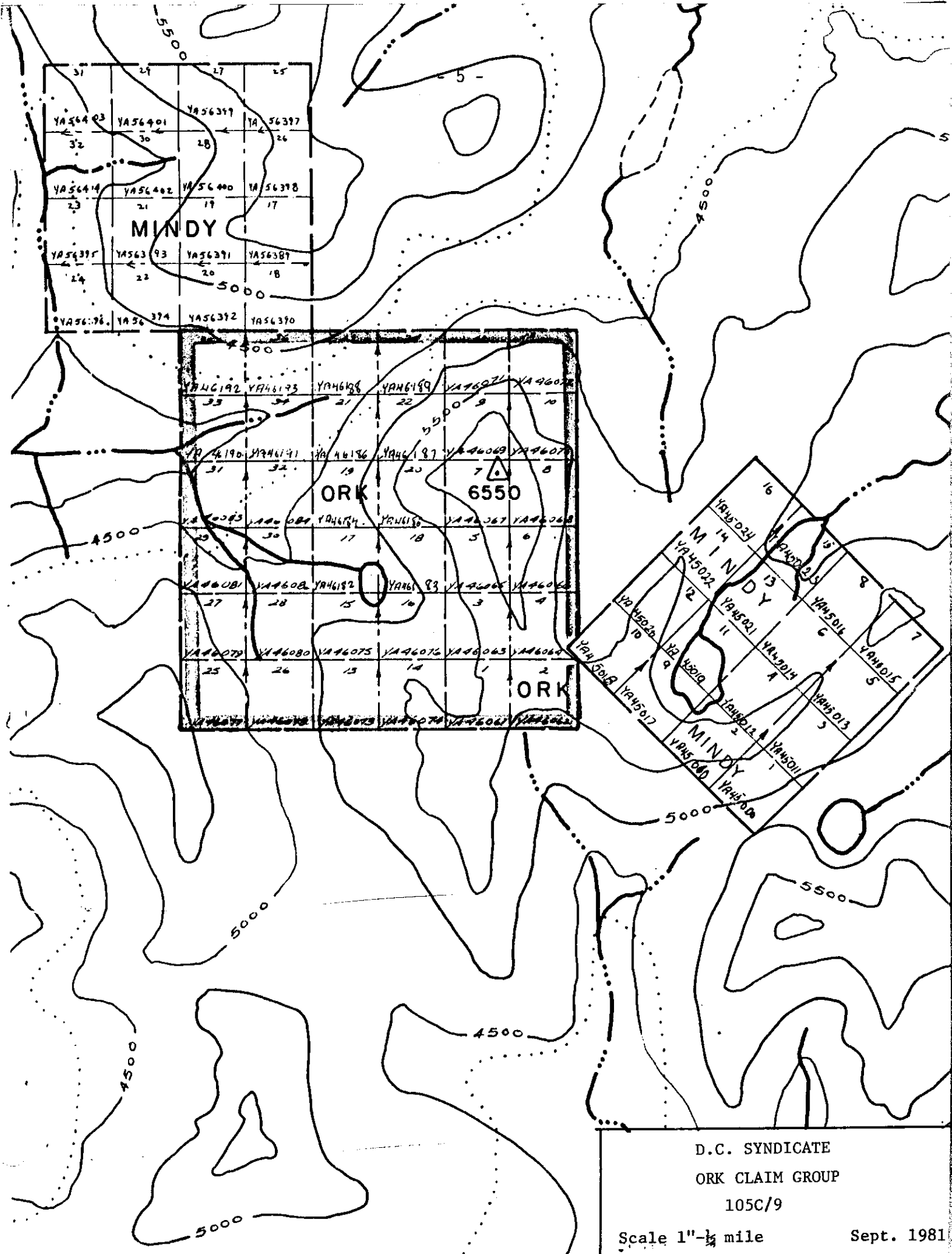
D.C. SYNDICATE
LOCATION MAP ORK CLAIM GROUP
105C/9
Scale 1:250,000 Sept. 1981
FIGURE 1

REGISTER OF CLAIMS

Table I

<u>Record Number</u>	<u>Claim Names</u>	<u>Recording Date</u>
YA 46061-076	ORK 1 - 16	Sept. 20, 1979
YA 46182-189	ORK 17 - 24	Oct. 3, 1979
YA 46077-084	ORK 25 - 32	Sept. 20, 1979
YA 46190-193	ORK 33 - 36	Oct. 3, 1979

The location of the ORK group in relation to adjoining claims is shown in Figure 2.



D.C. SYNDICATE
 ORK CLAIM GROUP
 105C/9
 Scale 1" = 1/4 mile
 Sept. 1981
 FIGURE 2

GEOLOGY

REGIONAL SETTING

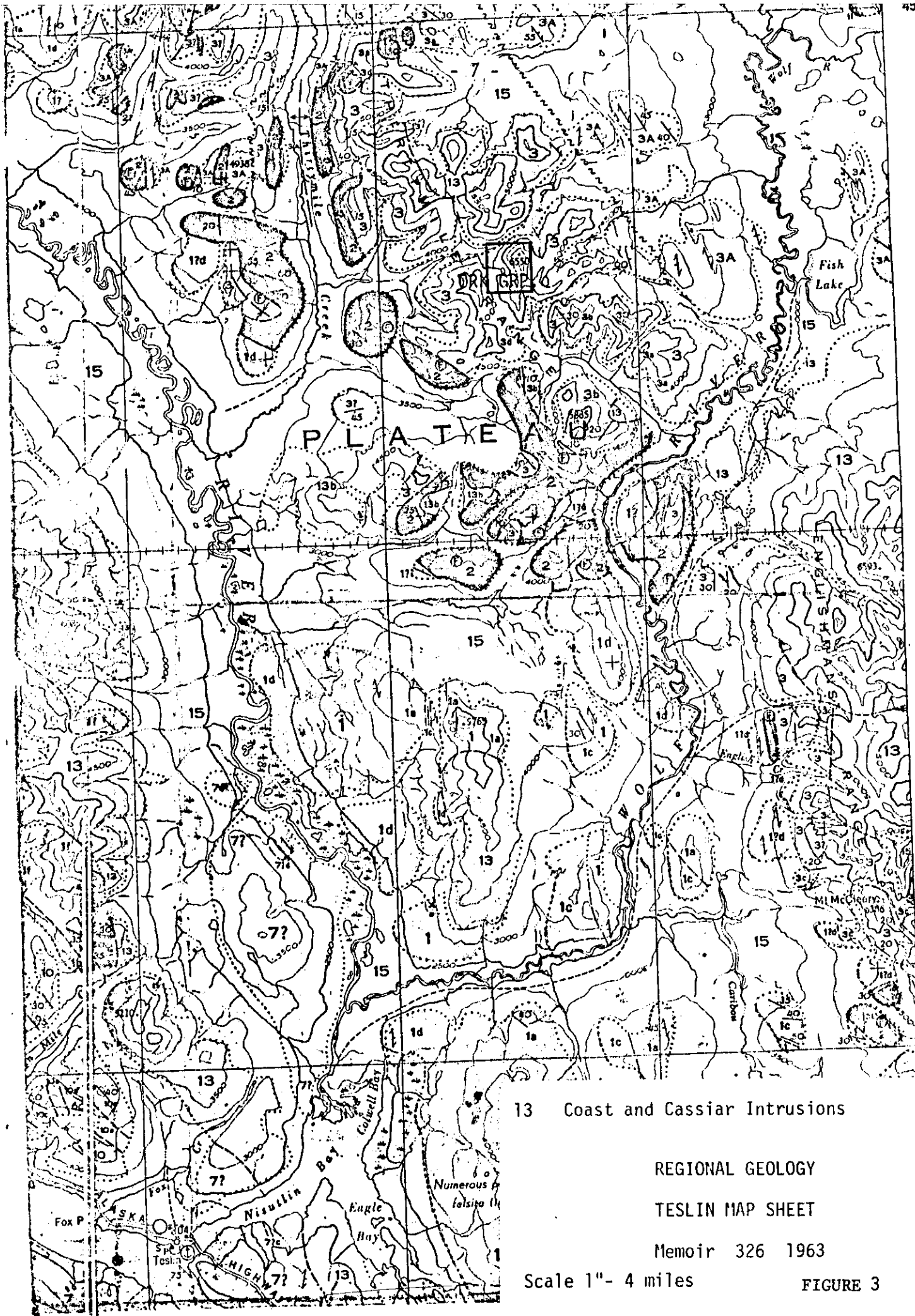
Geology of the Teslin Map Area is described in G.S.C. Memoir 326 by Robert Mulligan. (Figure 3) The ORK claim group is located in a region underlain by Mulligans Unit 3 which extends north westerly along the west side of Englishman's Range through Thirtymile Range to the north edge of the map sheet.

Unit 3 is described (Memoir 326 page 29) as "..... unmetamorphosed, dark weathering sedimentary rocks..."

"The typical rocks are dark argillaceous slates and quartzites, with locally abundant chert.....Definitely volcanic rocks are in very minor amount,..."

Several small granitic intrusions are mapped north-west of the Hake batholith in Englishman's Range. Mulligan groups these intrusions as "Coast and Cassiar Intrusions (Unit 13)". None occur close to ORK group but several small acid dykes were encountered and fragments of granitic material, probably glacially transported, are not uncommon in the north-east portion of the claim group.

The published aeromagnetic map 1336G Thirtymile Range indicates maximum magnetic variation across the claim group to be in the order of 150 gammas. There is a north-east trend to the contours but the magnetic pattern is of little use in interpretation of the geology.



13 Coast and Cassiar Intrusions

REGIONAL GEOLOGY

TESLIN MAP SHEET

Memoir 326 1963

Scale 1"- 4 miles

FIGURE 3

PROPERTY GEOLOGY

MAP I

Mapping on the property is of a preliminary nature using air photos for control. Results are plotted on Map I which is traced from an enlargement of air photo A 11474 - 8.

The sedimentary formations consist of a thick series of argillitic, to cherty and quartzitic beds with an interbedded horizon of white to grey limestone. Division into the various units shown in the legend is somewhat arbitrary.

Unit 1 - Conglomerate

This appears to be the lowermost horizon observed. The conglomerate is described as a chert pebble and quartz pebble conglomerate. In most outcrops the rock appears highly sheared and altered. Only one outcrop is shown on the map but other occurrences were noted to the north and east of the property. Beds of argillite occur within the conglomerate and in close proximity. Mapping in 1981 located similar chert pebble conglomerate along the ridge top to the south and along the east trending spur near the east boundary. These constitute a younger sub-unit as part of Unit 5.

Unit 2 - Greywacke, Argillite

These are dark impure rocks grading upward from the argillite interbeds associated with the conglomerate. Pyrite and/or pyrrhotite occur and the weathered surface is frequently rusty as a consequence.

Unit 3 - Limestone

The limestone varies from fine grained clean white limestone to fetid dark grey limestone. Some areas appear to be recrystallized and are somewhat coarser grained. Within this horizon are zones of calc silicate which are apparently best developed near the top of the horizon. These are hard siliceous thinly banded rocks of white to pale green color.

Sub-unit 3a - Limestone Conglomerate

Pebbles and boulders of limestone are cemented by a limey matrix. In part this occurrence at the south-west corner of the property looks like a limestone breccia.

Sub-unit 3b - Skarn

Along the limestone horizon, and more generally near the upper and lower contacts, zones of dark hedenbergite and garnet skarn have developed. At one location in ORK 10 an eight foot lens occurs with heavy arsenopyrite mineralization. Occurrences of arsenopyrite, pyrite and pyrrhotite with minor chalcopyrite were noted at other locations. Axinite is developed in portions of the limestone horizon near the south-west corner of the property.

Unit 4 - Greywacke, Quartzite

The greywacke varies from predominantly an arkosic to sub-feldspathic variety with minor arenaceous layers. Lower portions of this unit frequently exhibit alteration to a gneiss.

Unit 5 - Argillite, Cherty Quartzite

These rocks are variable in hand specimens but rather monotonous overall. They are generally very fine grained, dark brown or grey to black in color, and often rusty weathering. Some varieties are siliceous, fine grained, dark hornfels in hand-specimen with sub-conchoidal fracture. Some units are relatively thin bedded black fairly soft argillites or shales.

Outcrops of chert pebble conglomerate with sub-rounded fragments of white and black chert, 1 - 10 cm in diameter, appear to be a gradational development of argillite with white elongated chert fragments.

Unit 6 - Aplite, Pegmatite, Leucogranite

Occurrences of white to grey, fine to medium grained aplitic granite were found in the south central portion of the property. Several narrow dykes of grey pegmatite also occur. These rocks consist largely of smoky grey quartz and white to cream colored feldspar with small amounts of silver white muscovite. Small quantities of purple fluorite occur on fractures and less commonly as interstitial components of the intrusive.

Substantial outcrops of intrusive were located in the creek near the west boundary of the property. This rock fluoresced bright apple green under the U.V. light but the fluorescent mineral has not been identified.

STRUCTURE

The property is occupied by a thick sequence of sediments which exhibit moderate to gentle south easterly dips in the northeastern part of the claim group and gentle south westerly dips in the western part of the group.

On the high ridge in the south central portion of the claim, gentle (5° - 15°) dips appear to outline a local syncline or basin of small dimension.

The sedimentary sequence is intruded, apparently rather passively, by a leucogranite with related pegmatite and aplite. There may be a slight doming affect from this intrusion and this may be part of the cause of the apparent anticlinal structure through the property.

No faulting was mapped on the claim group but shearing in the conglomerate north of the property and an air photo linear west of the property suggest faults trending about N 45° - 60° E.

MINERALIZATION

Small amounts of pyrrhotite and some pyrite are present generally in argillitic phases of the sediments and weathering of these sulphides imparts a rusty color to some formations.

Dark impure quartzitic sediments often contain fine disseminated pyrrhotite and occasionally traces of chalcopyrite. These rocks are also rusty weathering.

East of the property boundary float containing considerable chalcopyrite, pyrrhotite and some pyrite was found. This probably comes from the upper part of the quartzite horizon or lower part of the skarn horizon.

The small skarn horizon in the northeast part of the property contains red-brown garnets, tourmaline, pyroxene with minor scheelite, chalcopyrite and arsenopyrite. Values of 800 ppm tungsten were obtained here.

North, south and west of the small lake in the centre of the property the limestone formation is intruded by a light grey to white leucogranite. Outcrop is extremely limited. Geochemical values up to 800 ppm tungsten and 195 ppm tin were obtained in this area. Fluorite occurs in the intrusive and in adjoining limestone. Axinite occurs in the sediment to the southwest.

No mineral showings have been found in outcrop with economic mineral values.

GEOCHEMISTRY

A total of 3 silt, 46 talus and 49 rock samples were collected as shown on Map II. All were analysed by Chemex Labs for tin and tungsten and one sulphide rich float was run geochemically for silver, lead and zinc. This sample is being assayed but results have not yet been received. It is expected it will assay approximately 1% copper.

In the northeast portion of the property the following samples were anomalous for tin or tungsten:

<u>Sample Number</u>	<u>Description</u>	<u>Sn ppm</u>	<u>W ppm</u>
77507	Rock-calc silicate	3	150
509	Rock-skarn, tourmaline, azurite	22	225
510	Rock-skarn, red-brown garnet, tourmaline	2	800
511	Rock-skarn, red garnet	7	>800

Talus samples in the same area are not anomalous. The chalcopyrite bearing float 77515 was found in the creek east of the property boundary.

East of the southeast corner of the property, talus samples ET 135 and 136 ran 22 ppm Sn 20 ppm W; 75 ppm Sn 14 ppm W respectively.

In the south central portion of the claim group, in an area of aplite and pegmatite talus and small dykes, the following rock samples were anomalous:

<u>Sample No.</u>	<u>Description</u>	<u>Sn ppm</u>	<u>W ppm</u>
67825	Intrusive-Fluorite	195	70
826	Intrusive-Fluorite	16	65
827	Intrusive-Fluorite tourmaline	16	74
829	Limestone-Fluorite actinolite	18	190
830	Limestone garnets actinolite	25	>800

Just off the southwest corner of the property, sample 67835 B ran 21 ppm Sn, 95 ppm W but other samples in the area are not anomalous.

Rock samples from, or close to, the intrusive in the creek near the west property boundary ran:

<u>Sample No.</u>	<u>Description</u>	<u>Sn ppm</u>	<u>W ppm</u>
67837	Intrusive, smokey quartz, mica	31	27
840	Intrusive, tourmaline, muscovite	11	26
841	Intrusive, tourmaline, muscovite	8	195
842	Intrusive, tourmaline, muscovite	23	22

To the west sample 77506 of marble with purple fluorite ran 53 ppm Sn, 93 ppm W.

No zones of mineralization of apparent economic grade were located during the survey. Tin and tungsten values are, however, anomalous and further sampling is warranted.

Data sheets for samples taken are included in this report as Appendix I.

CONCLUSIONS AND RECOMMENDATIONS

The 1981 survey was not successful in locating mineralized zones of economic significance. The location of the intrusive body or bodies is somewhat better defined and shown to be related to axinite, fluorite mineralization and to anomalous levels of tungsten and tin. Only very limited outcrop is available.

Well mineralized float was located off the east boundary of the claim group. Values in copper, silver, zinc and tin may be associated if the source can be found.

It is recommended that a double row of claims be added to the east of the present property to cover the float location and that detailed mapping and a magnetometer survey be conducted on a grid in an effort to locate the float source. Soil sampling for copper and zinc may also be useful. Samples should be run for copper, zinc, tin and tungsten.

In the west half of the property, a grid should be laid out and detailed mapping and a magnetometer survey should be conducted. Due to the extent of the limestone formation, it is somewhat doubtful whether soil sampling would be effective but it should be carried out at least in areas of shallow overburden and in the area of any positive magnetic anomalies. Samples should be run for tin, tungsten and fluorine.

Respectfully submitted,
J.C. STEPHEN EXPLORATIONS LTD.


J.C. Stephen

TABLE OF EXPENDITURES

Salaries and Benefits

<u>Name</u>	<u>Date</u>	<u>Rate</u>	<u>Amount</u>	<u>Totals</u>
D. Ferguson	July 25-Aug 9	\$1,750/m+15%	\$1,038.71	
L. Fasullo	July 25-Aug 9	1,000/m+15%	593.55	
E. Sidet	Aug 1 - Aug 9	1,750/m+15%	584.27	
K. Darcy	Aug 1 - Aug 9	1,750/m+15%	584.27	\$2,800.80

Food and Camp Supplies

50 man days @ \$10 500.00

Helicopter Support

3 hours @ \$450 1,350.00

Geochemical Analysis

Invoice - 113257 \$393.55
113258 347.31 740.86

Report Preparation

D. Ferguson Aug. 27 \$ 65.00
J.C. Stephen Sept. 28 150.00 215.00

TOTAL COSTS \$5,606.66

APPENDIX I

GEOCHEMICAL DATA SHEETS

SAMPLER _____

DATE 1981

PROJECT DC SYND ORK GROUP

NTS _____

LINE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				g/g	g/g		
ET-1											3	5		
2											1	10		
3											2	25		
4											1	1		
5											1	1		
6											5	73		
7											1	14		
8											1	1		
DCV 40											3	3		
41											8	24		
DCV 50											3	1		

NTS

105

SAMPLER _____

PROJECT

D.C. SYNIOCATÉ
ORK

LINE _____

DATE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Fr	N		
81021 101					FINE SAND					SOME TALUS SILICEOUS ARGILLITE	1	1		
102					"						1	1		
103					"						1	1		
104					"					BAND ARGILLACEOUS QUARTZITE	1	1		
105					"					" " "	1	10		
106					"					" " "	1	1		
107					"					" " "	1	1		
108					SOIL SAND					SHALE + QUARTZITE	1	1		
109					SAND						1	12		
110					"					QUARTZITE	1	1		
111					"					"	2	1		
112					"					"	2	1		
113					SOIL SAND						5	1		
114					"						1	1		
115					"						4	1		
116					"					QUARTZITE	2	1		
117					"					"	2	1		
118					"					"	3	25		
119					"					"	3	7		
120					"					"	1	20		

SAMPLER _____

PROJECT

DC. SYNDICATE
ORK

NTS

LINE

DATE _____

AIR PHOTO NO. _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Sn	W		
DEET DEET 121					SAND TALUS					QUARTZITE OUTCROP	2	1		
122					"					"	2	37		
123					"					"	3	1		
124					"					"	4	17		
125					"					"	1	1		
126					"					"	2	1		
127					"					"	1	14		
128					"					"	1	15		
129					"					"	2	20		
130					"					"	5	17		
131					"					"	5	35		
132					"					" LIMESTONE OUTCROP	2	20		
133					"					GARNET + ACTINOLITE TALUS PRESENT	40	1		
134					"					QUARTZITE OUTCROP	3	26		
135											22	20		
136											75	14		
137											5	1		
138											2	1		

NTS 105 C

SAMPLER _____

PROJECT D.C SYNDICATE
ORK GROUP

LINE _____

DATE Aug 8 1981

AIR PHOTO No. _____

SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH		ASSAYS			
							TRUE WIDTH		Sn	W	Ag	Au
(1) 67825		INTRUSIVE		FLUORITE (PURPLE)					195	70		
(2) 67826		INTRUSIVE		"		FLOAT			16	65		
(3) 67827		"		TOURMALINE + PURPLE FLUORITE					16	74		
(4) 67828		WHITE INTRUSIVE		RADIATING TOURMALINE					15	18		
(5) 67829		LIMESTONE		ACTINOLITE - PURPLE FLUORITE					18	190		
(6) 67830		"		BROWN CAENETS GREEN ACTINOLITE		NOT VERY WELL DEVELOPED			25	7800		
(7) 67831				"		ACT. RADIATING ACTINOLITE INTO QUARTZ			9	28		
(8) 67832				"		VEINS OF INTRUSIVE RUNNING THROUGH SAMPLE			1	6		2
(9) 67833		SMOKEY QUARTZ + MUSCOVITE		WHITE INTRUSIVE					1	20		1
(10) 67834		CALC-SILICATE		AXINITE		FLOAT			1	37		
(11) 67835				FLUORITE WITH CALCITE					21	95		
(12) 67836		GREEN CALC-SILICATE		AXINITE					1	1		
(13) 67837		INTRUSIVE		SMOKEY QUARTZ MICA		IN CREEK, IN CONTACT WITH LIMESTONE			31	27		
(14) 67838		LIGHT INTRUSIVE							8	55		
(15) 67839		"							16	38		
(16) 67840		COURSE INTRUSIVE		BLACK TOURMALINE + MUSCOVITE					11	26		
(17) 67841		"		"					8	195		
(18) 67842		"		"					23	22		
(19) 67843				PURPLE FLUORITE					36	30		
(20) 67844				AXINITE					1	1		

NTS

105 C

SAMPLER

PROJECT D.C. SYNDICATE

LINE

DATE Aug 8/81

ORR

AIR PHOTO No.

SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS			
									SW	W		
(1) 28301				MAGNETITE		TALUS (SKARN)			6	1		
(2) 28302				RUSTY TREMULITE					2	1		
(3) 77501		QUARTZ RICH INTRUSIVE		PURPLE FLUORITE		IN VEINS			60	40		
(4) 77502		MARBLE		GREEN GARNET + TOURMALINE		TOURMALINE FOUND IN VEINS			34	68		
(5) 77503		"		"					-47	7800		
(6) 77504		CALC- SILICATE		QUARTZ IN VEINS					4	27		
(7) 77505		"		AXONITE					1	20		
(8) 77506		MARBLE		PURPLE FLUORITE					53	93		-22
(9) 77507		CALC- SILICATE				GREENISH BANDS			3	150		
(10) 77508		QUARTZITE		CHALCOPYRITE ARSENOPYRITE					1	1		
(11) 77509		CALC SILICATE	1" THICK / AZURITE ABOVE 77510, 511			BROWN RADIATING CRYSTALS?			22	225		
(12) 77510		GARNET SKARN	30' x 10' thick	COARSE RED BROWN GARNETS + TOURMALINE, AXONITE					2	800		
(13) 77511		BROWN GARNET SKARN	SAME 30' x 10'	ZONE					7	7800		
(14) 77512		QUARTZITE		PYRRHOTITE					2	85		
(15) 77513		MARBLE		GARNET SKARN		TALUS TOURMALINE			4	148		
(16) 77514		GREEN GARNET SKARN				FOUND IN MARBLE			11	10		
(17) 77515				SULPHIDE RICH		FLOAT			49	1	35.0 780	3200 G
(18) 77516		DIRTY QUARTZITE		"					2	2		
(19) 77517		"							1	14		
(20) 77518		"		PYRITE					1	1		

NTS

105-C

SAMPLER

PROJECT

DC SYNDICATE

LINE

DATE Aug 8/81

ORK

AIR PHOTO No.

SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS			
									Sn	W	Ag	Au
(1) 77519		ARGILLITE		RED GARNETS					2	1		
(2) 77520		ACTINOLITE SKARN				NEWMOUNT			18	29		
(3) 77521		GARNET SKARN				" "			7	92		
(4) 77522		CALS-SILICATE				" "			1	95		
(5) 77523		DIRTY QUARTZITE							1	15		
(6) 77524		CALC SILICATE							1	1		
(7) 77525		" IN PYROXENE		BROWN GARNET TOURMALINE					4	1		
(8) 77526		CALC-SILICATE							35	22		
(9) 77527		CALC-SILICATE		RED & GREEN GARNETS								
(10)												
(11)												
(12)												
(13)												
(14)												
(15)												
(16)												
(17)												
(18)												
(19)												
(20)												

- 23 -

A P P E N D I X II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

DAVID J. FERGUSON

Education B.Sc. Geological Engineering
expected 1982
Queen's University

Experience 1980 J.C. Stephen Explorations Ltd.
Geological Assistant

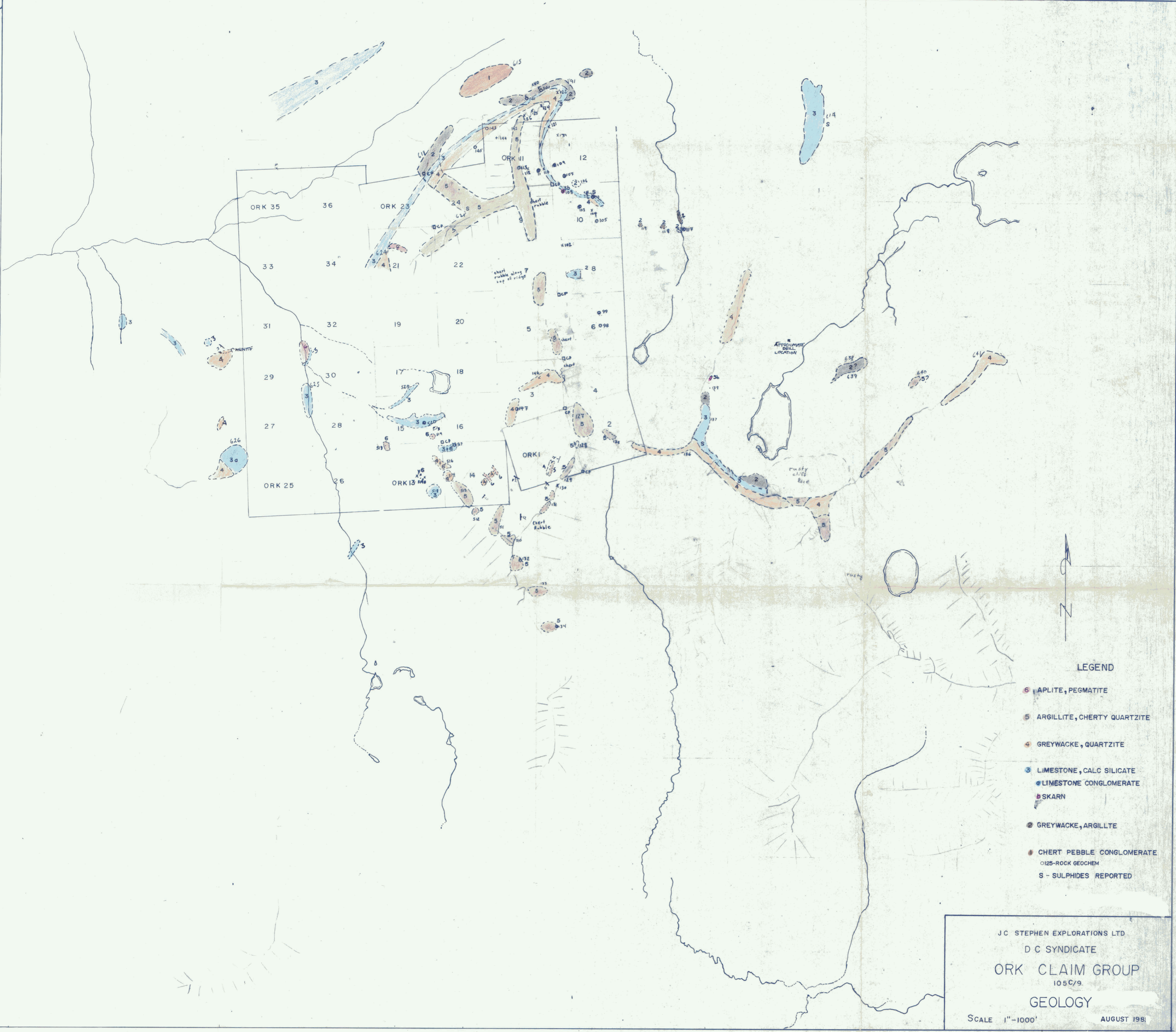
1981 J.C. Stephen Explorations Ltd.
Junior Geologist

STATEMENT OF QUALIFICATIONS

KIMBERLEY D'ARCY

Education B.Sc. *Geology* 1981
Queen's University

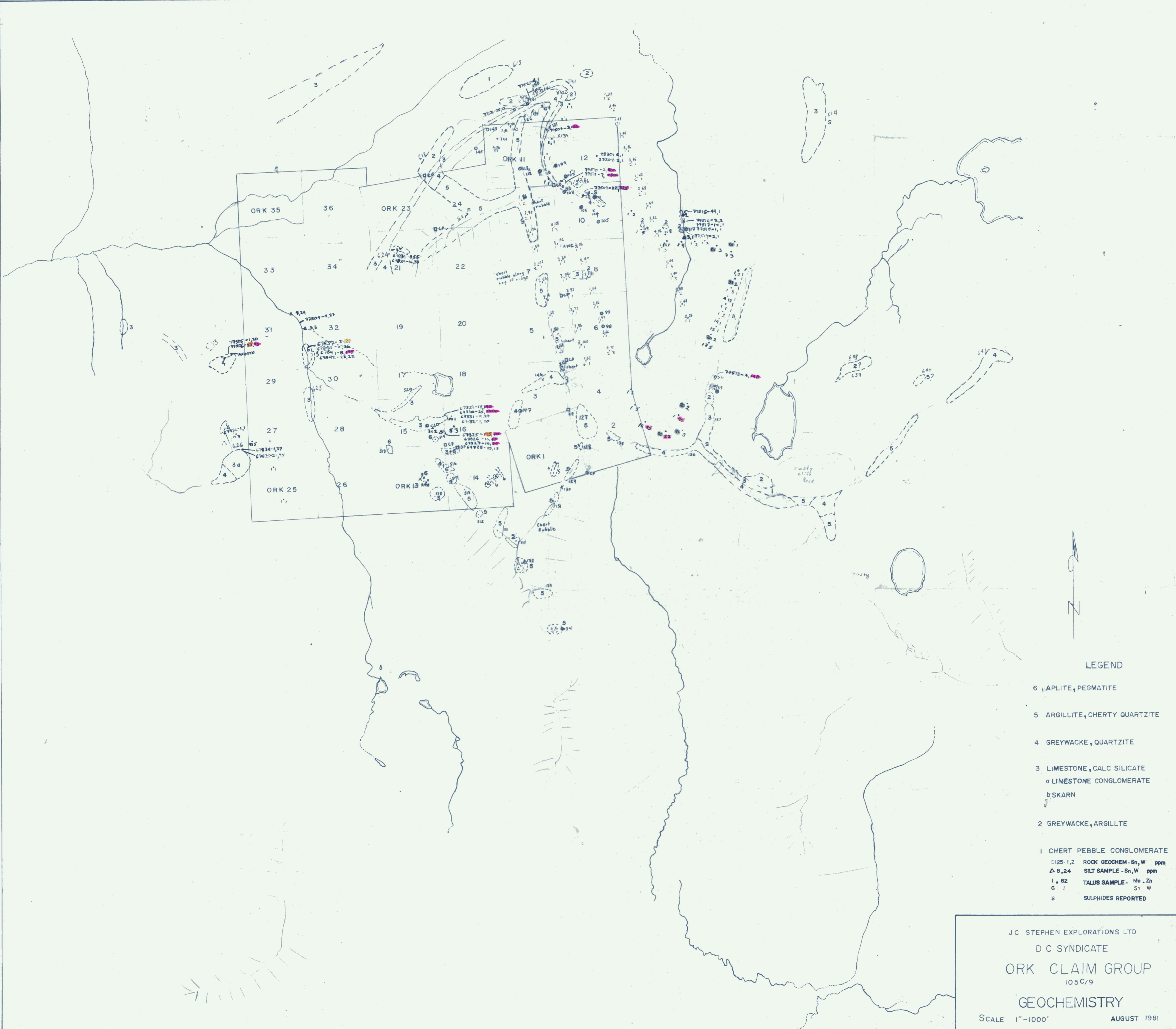
Experience J.C. Stephen Explorations Ltd.
May 1980 -
Junior Geologist



LEGEND

- 6 APLITE, PEGMATITE
- 5 ARGILLITE, CHERTY QUARTZITE
- 4 GREYWACKE, QUARTZITE
- 3 LIMESTONE, CALC SILICATE
- LIMESTONE CONGLOMERATE
- SKARN
- 2 GREYWACKE, ARGILLITE
- 1 CHERT PEBBLE CONGLOMERATE
- 125-ROCK GEOCHEM
- S - SULPHIDES REPORTED

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GEOLOGY
 SCALE 1"=1000' AUGUST 1981



LEGEND

- 6 APLITE, PEGMATITE
- 5 ARGILLITE, CHERTY QUARTZITE
- 4 GREYWACKE, QUARTZITE
- 3 LIMESTONE, CALC SILICATE
 - a LIMESTONE CONGLOMERATE
 - b SKARN
- 2 GREYWACKE, ARGILLITE
- 1 CHERT PEBBLE CONGLOMERATE
 - 1,2 ROCK GEOCHEM - Sn, W ppm
 - △ 8,24 SILT SAMPLE - Sn, W ppm
 - 1.62 TALUS SAMPLE - Mo, Zn
 - 6.1 Sn W
 - s SULPHIDES REPORTED

J.C. STEPHEN EXPLORATIONS LTD
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GEOCHEMISTRY
 SCALE 1"=1000' AUGUST 1981
 090886 MAP II