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AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY.

REPORT

ON

EXPLORATION LICENCE 32/71.

DIDDLEUM PLAINS, TASMANIA.

SEPTEMBER 30, 1971.

BY

K.J. CALLOW.

INTRODUCTION.

Exploration Licence 32/71 was granted on June 15, 1971 for a period of 6 months. The area was taken up by Australia and New Zealand Exploration Company to search for tungsten, as it was thought the contact zone between Devonian granite and Silurian-Devonian sediments could be favourable for scheelite mineralization if any limestones were present in the Silurian-Devonian sequence.

A preliminary stream sediment sampling programme was carried out in which negative results were obtained for both tungsten and molybdenum.

LOCATION.

The Licence area is located about 15 miles due east of Launceston and covers an area of 240 square miles as shown in Fig 1.

ACCESS.

Access to the area is by way of the Tasman Highway from Launceston. Within the Licence area a system of secondary roads makes most parts easily accessible.

GEOLOGY.

The rocks within the Exploration Licence consist of Middle Palaeozoic sediments and Devonian granite. The Middle Palaeozoic sediments in this part of Tasmania are known as the Mathinna Beds and consist of sandstone, siltstone and claystone or their metamorphic equivalents. The presence of limestone was reported by Strzelecki (1845), but has not been confirmed by later work. In the present investigation no limestone was encountered. The Devonian granite intrudes the sediments but the absence of limestones and other limey sediments precludes the formation of scheelite bearing tactites, the location of which was the main objective of the exploration programme.

EXPLORATION PROGRAMME.

Stream Sediment Sampling.

To test the Licence area for possible tungsten mineralization, a reconnaissance stream sediment sampling programme was undertaken employing one Geologist and one Field Assistant. Of the stream sediment samples taken, both a panned concentrate and a -80 mesh fraction were analysed for tungsten, molybdenum, tin and copper. Locations of the sampling points are shown in Fig. 2.

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TABLE NO 1.

Stream Sediment Samples from E.L. 32/71.

DATA BASE

No.



Sample Number	Type	W ppm	Mo ppm	Sn ppm	Cu ppm	
3323	23	-80 mesh	-2	-2	-5	10
	23A	panned	-2	-2	-5	2
3324	24	-80 mesh	-2	-2	-5	5
	24A	panned	-2	-2	-5	-2
3325	25	-80 mesh	-2	-2	-5	10
	25A	panned	-2	-2	-5	5
3326	26	-80 mesh	-2	-2	-5	2
	26A	panned	-2	-2	-5	-2
3327	27	-80 mesh	-2	-2	-5	20
	27A	panned	-2	-2	-5	10
3328	28	-80 mesh	-2	-2	-5	-2
	28A	panned	-2	-2	-5	2
3329	29	-80 mesh	-2	-2	-5	2
	29A	panned	-2	-2	-5	-2
3330	30	-80 mesh	-2	-2	-5	20
	30A	panned	-2	-2	-5	-2
3331	31	-80 mesh	-2	-2	-5	2
	31A	panned	-2	-2	-5	-2
3332	32	-80 mesh	-2	-2	-5	5
	32A	panned	-2	-2	-5	-2
3333	33	-80 mesh	-2	-2	-5	10
	33A	panned	-2	-2	-5	-2
3334	34	-80 mesh	-2	-2	-5	2
	34A	panned	-2	-2	-5	-2
3335	35	-80 mesh	-2	-2	-5	10
3336	36	-80 mesh	-2	-2	-5	-2
	36A	panned	-2	-2	-5	-2
3337	37	-80 mesh	-2	-2	-5	2
	37A	panned	-2	-2	-5	2
3338	38	-80 mesh	-2	-2	-5	-2
	38A	panned	-2	-2	-5	-2
3339	39	-80 mesh	-2	-2	-5	2
	39A	panned	-2	-2	-5	-2
3340	40	-80 mesh	-2	-2	-5	2
1	41	-80 mesh	-2	-2	-5	-2
2	42	-80 mesh	-2	-2	-5	10
3	43	-80 mesh	-2	-2	-5	-2
4	44	-80 mesh	-2	-2	-5	5
5	45	-80 mesh	-2	-2	-5	-2
3346	46	-80 mesh	-2	-2	-5	10

The above results of the stream sediment samples indicate that the area is not worth prospecting further for tungsten.

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EXPENDITURE.

Assays	180.00
Equipment (not capitalized)	7.65
Postage	0.24
Hotel and meals	41.05
Vehicle Expenses - company	10.94
Maps and Reproductions	0.82
Wages - Temporary Personnel	72.80
Salary - Geologist	384.62
Exploration Licence Fee	46.50

TOTAL. 744.62

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STATUTORY DECLARATION

I, ANTHONY AUGUST STEGMANN of 167-187 Kent Street, Sydney
in the State of New South Wales,

do solemnly and sincerely declare as follows:

As the Accountant of Australia and New Zealand Exploration Company I have ascertained that the total expenditure incurred and paid by the company on Exploration Licence 32/71 granted to it by the Tasmanian Mines Department is \$744.62 broken down as follows:

Assays	180.00
Equipment (not capitalised)	7.65
Postage	24
Hotels and Meals	41.05
Vehicle Expenses - Company	10.94
Maps and Reproductions	82
Wages - Temporary Personnel	72.80
Salary - Geologist	384.62
Exploration Licence Fee	46.50
	<u>744.62</u>

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the "Oaths Act 1900."

Subscribed and declared at Sydney
this twenty first day of October
one thousand nine hundred and seventy one
before me

A. A. Stegmann

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AUSTRALIA & NEW ZEALAND EXPLORATION CO.

EXPLORATION LICENCE 32/71 240S.M.

VICINITY DIDDLEUM PLAINS

TASMANIA

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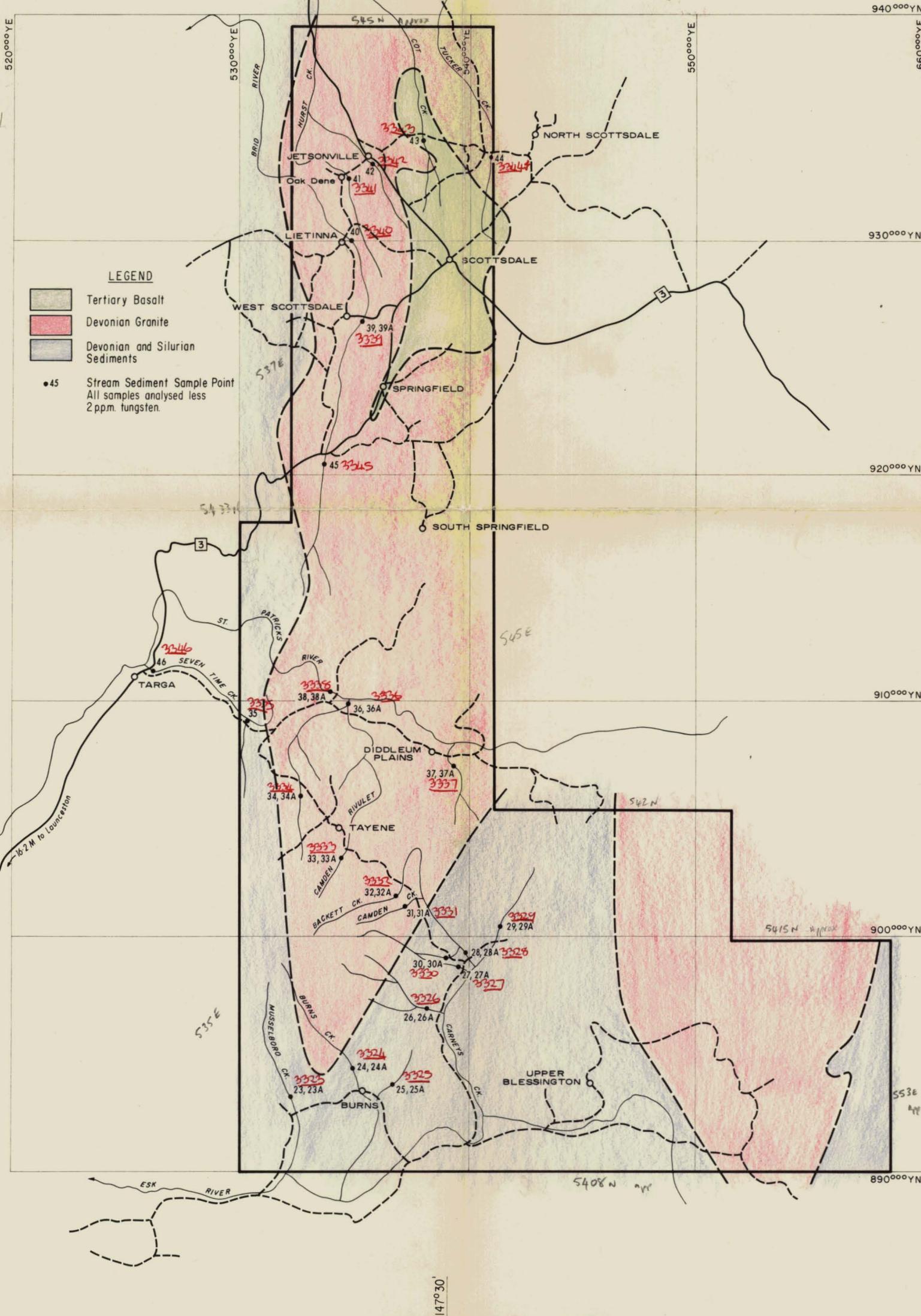
MILES

1 in = 2 miles

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147°30'



LEGEND

-  Tertiary Basalt
-  Devonian Granite
-  Devonian and Silurian Sediments
-  45 Stream Sediment Sample Point
All samples analysed less 2 ppm tungsten.

41°15'

41°15'

147°30'