ROCK GEOCHEMICAL SURVEY

JAILBIRD PROSPECT

JAILBIRD CLAIM REC. NO. 816

JAILBIRD 2 CLAIM REC.NO. 869

OMINECA MINING DIVISION

93L/7W

LONGITUDE 126° 53' 40" W

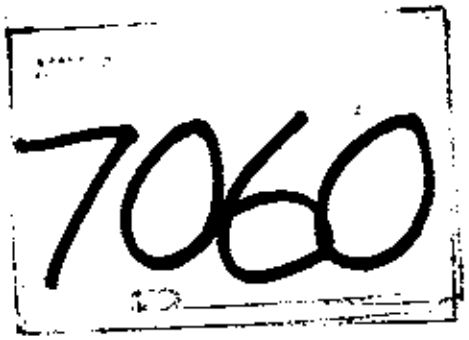
LATTITUDE 54° 26' 20" N

CLAIM OWNER - K.W. LIVINGSTONE

OPERATOR - AS ABOVE AND SUPERIOR OIL

AUTHOR - K.W.LIVINGSTONE.

JANUARY 8,1978



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INTRODUCTION

The Jailbird Prospect is located about 5000 meters west of the Bulkley R. at a point about 5000 meters northeast from the junction of the Bulkley and Morris Rivers. There is easy two wheel drive access to the area of mineralization by an old logging road. Bedrock exposure in the mineralized area is poor and restricted to caved bulldozer treches. The report deals with the rock geochemistry of these exposures.

About 0.3 Kg. of rock chips were collected in a localized area in each trench or outcrop. The rock fragments in general were mineralized with fracture and desseminated pyrite and locally with visible molybdenite. These rock chips were submitted to Bondar-Clegg & Co.Ltd. North Vancouver for geochemical assay. Copper, lead, zinc, manganese, molybdenum,tin and tungsten were assayed. Tin and tungsten samples were disgested by basic fusion; copper, lead zinc and molybdenum by hot agua regia. Determinations for tungstum were by colorimetric methods, for fluorine by specific ion, for tin by X.R.F., and the others by atomic absorption.

Sample location, sample numbers and the assay are indicated on maps for each element. The detail assay is included in the appendix.

DISCUSSION OF RESULTS.

MOLYBDENUM.

Molybdenum occurs mainly as molybdenite in fine quartz veinlets in a prevasively clay - sericite altered breccia. In general there is a slight increase in the M_o content towards an area of breccia at sample site 110-117 The breccia at site 110-117 contains mineralized fragments. It is difficult to separate out the fragments for assay but selected pieces of the breccia assay to 440 ppm M_o.

There is a broad area of low but anomatous Mo. The younger breccia with MoS_2 mineralized fragments contains significantly more Mo. It is believed that the broad Mo patterns and the younger breccia are related to a burried intrusive source.

TUNGSTEN

Tungsten values range from 3 to 21 ppm. with most of the higher values in the sourthern exposures. There is no correlation with Mo. content.

TIN

Tin values ranges from less than 1 to 37 ppm. In general tin correlates with the tungesten but is more erratically distributed.

FLUORINE

Fluorine values range from 200 to 1050 ppm. The few higher values correlate with high values for tin and tungsten. There appears to be an inverse relationship with Mo.content.

COPPER & ZINC

Copper and Zinc are not present in significant amounts in the sulphide system as exposed. One anomalous sample is a late-mineral andesitie dyke.

LEAD

Most of the outcrops sampled are anomalous for lead. Values range from 9 to 6600 ppm. The higher values were obtained in the most northwestly exposures.

MANGANESE

No significan Mn was found. Some late mineral and post mineral dykes have fracture managanese stain.

SUMMARY

There is a broad area of anomalous Mo. related to fine reliculate quartz veins. The Mo content tends to increase towards a young breccia pipe with MoS_2 mineralized fragments. There is evidence of at least three stages of quartz veining.

Tin, tungstum and fluorine are weakly anomalous in the rocks to the couth of the breccia pipe. Lead appears to be anomalous throughout the system where sampled.

This geochemical pattern in general supports a geological model of a burried intrusive source for the surface mineralization.

STATEMENT OF COSTS

May 29 -	Air fare	
	2 men return Vancouver to Smithers	$ 280.00
May 29-31	Meals 6 man days @ $10.	60.00
	Truck rental	70.00
	Assays	356.25
	Wages 6 man days	600.00
SEP.18-20	Airfare	
	2 man return Vancouver to Smithers	288.00
	Taxi	10.00
	Meals 6 man days	60.00
	Assays	283.80
	Wages 6 man days	600.00
Report preparation 2 days		200.00
Drafting		100.00
	TOTAL :	$3013.05

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

$253.50

Extraction W,F; Basic Fusion
Mo,Mn; Hot Aqua Regia
W; Colorimetric F; Specific Ion

Report No. 28 - 1504

Method Mo,Mn; Atomic Aborption Sn; X.R.F.

From J.M.T. Services

Fraction Used

Date October 5, 19 78

SAMPLE NO.	Mo ppm	Mn ppm	Sn ppm	W ppm	F ppm			REMARKS
WL - 78 100 ROCKS	20	176	25	20	195			
101	3	36	< 1	10	350			
102	3	36	< 1	13	480			
103	3	34	< 1	20	370			
104A	10	140	37	21	140			
104T	5	32	6	18	460			
105	25	56	11	15	950			
105A	26	22	1	15	270			
106	28	14	3	13	1050			
106A	30	20	5	16	610			
107	6	10	6	10	540			
107A	6	11	7	8	460			
108	29	20	1	10	410			
109	42	28	5	6	950			
110	57	16	13	9	330			
111	171	106	< 1	5	480			
112	308	118	< 1	5	430			
WL - 77 113	145	18	< 1	6	430			
114	440	20	< 1	9	460			
115	247	62	< 1	6	300			
WL - 78 117	70	12	< 1	13	640			
SK 1	630	100	11	21	310			

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction: W,F; Basic Fusion
Cu,Pb,Zn,Mo;Hot Aqua Regia
W;Colourimetric F;Specific Ion

Method: Cu,Pb,Zn,Mo;Atomic Absorption Sn;X.R.F.

Report No. 28 - 267

From Superior Oil

Fraction Used

Date June 6, 19 78

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	F ppm	Sn ppm	REMARKS
47 A	21	520	38	4	18	450	12	
26029 A	8	400	19	4	10	450	5	
26030 A	10	122	5	4	8	450	2	
26031 A1	18	75	7	5	5	380	6	
26032 A1	17	66	8	5	10	430	19	
26032 A2	22	50	8	5	13	150	18	
26033 A(G)	8	35	4	9	8	870	9	
26033 A (P+M)	9	24	5	10	10	870	8	
26034 A	5	23	15	8	5	990	9	
26035	9	25	18	47	5	240	8	
26036	7	77	12	13	5	580	9	
26037	14	26	14	5	3	490	< 1	
26038	19	23	37	4	3	200	< 1	
26039	28	58	100	30	5	290	2	
26040	12	18	9	125	5	550	3	
26041	500	18	160	75	5	510	5	
26042	19	36	12	9	5	320	6	
26043	13	36	17	6	5	550	3	
26044	7	147	41	13	5	340	< 1	
26045	33	11	96	4	3	230	< 1	
26046	42	9	80	4	2	240	< 1	
26047	9	18	15	4	3	470	2	
26048	8	190	43	4	3	300	< 1	
26049	6	300	16	10	3	550	9	
26050 A	27	6600	55	90	5	490	6	

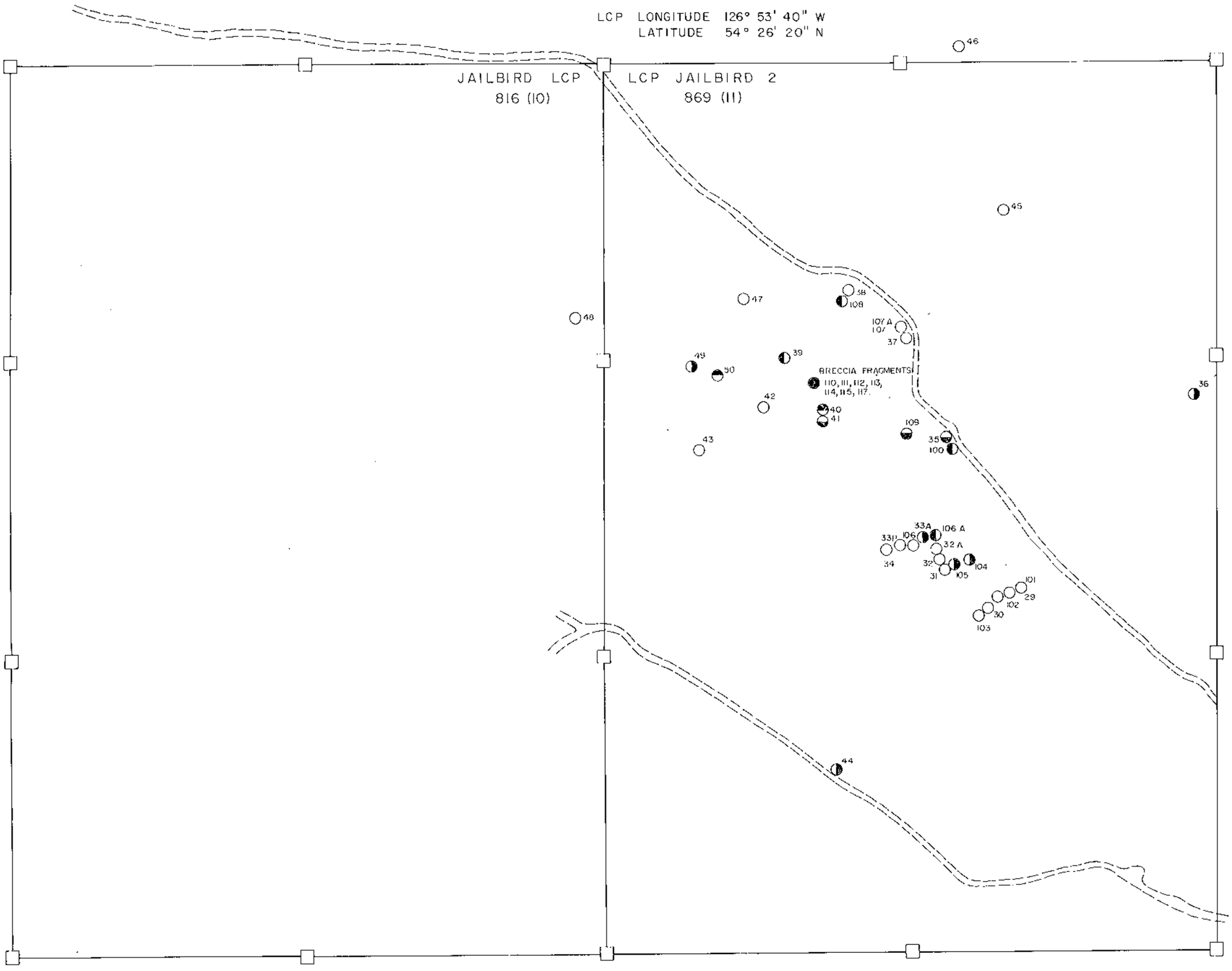
QUALIFICATION OF AUTHOR

1. Graduate BSc. Honours Geology Carleton University, Ottawa

2. " MSc. Geology University of British Columbia, Vancouver, B.C.

3. Member G.A.C., C.I.MM

4. Practised Profession Since 1970.



NOTE: Pace and brunton compass survey

MOLYBDENUM

LEGEND

○42 Sample no.

Range in p.p.m.

- ● 160 +
- ◓ 80 - 159
- ◒ 40 - 79
- ◐ 20 - 39
- ◑ 10 - 19
- ○ 0 - 9

JAILBIRD PROSPECT

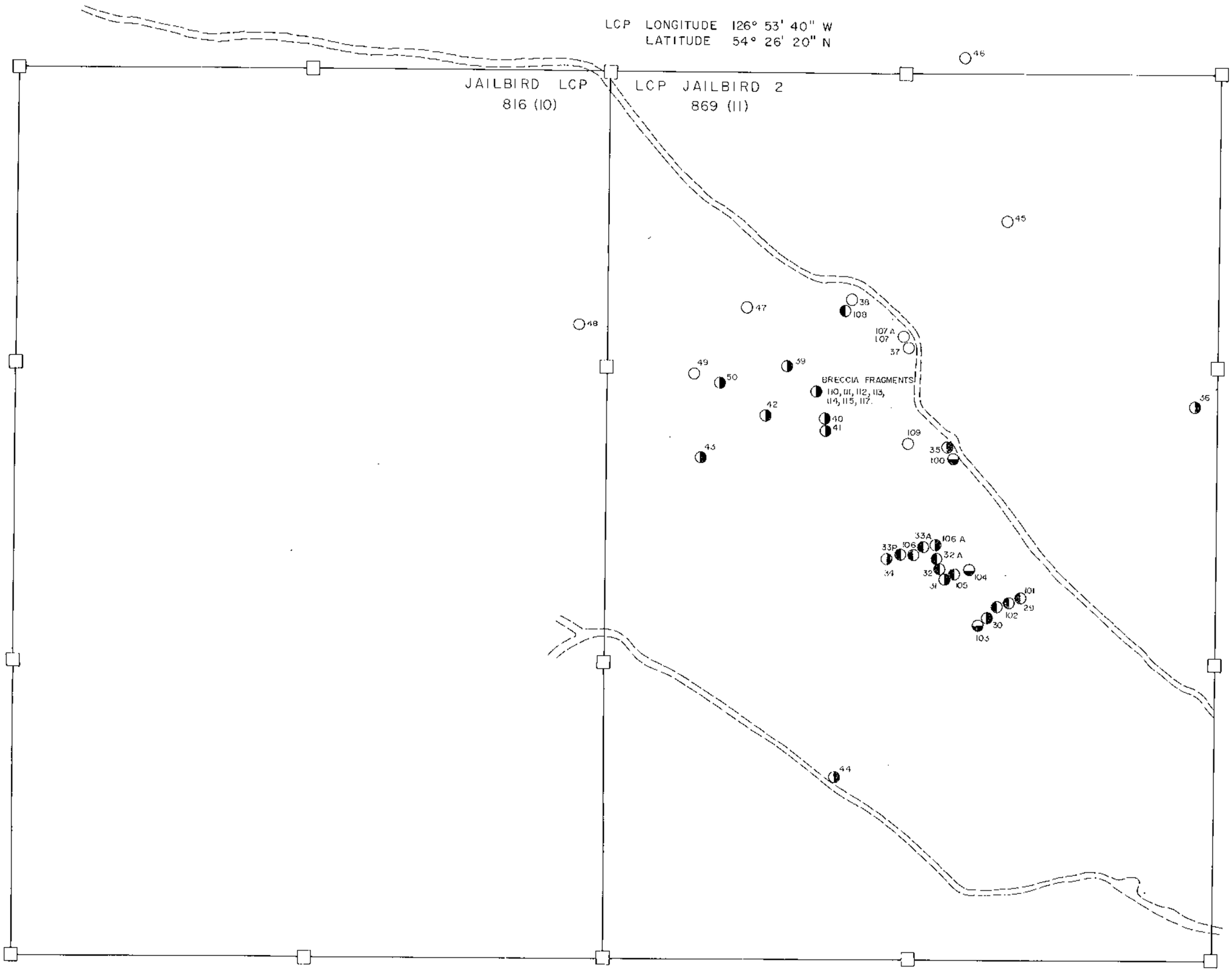
93 L / 7

ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

MAP No. 1



NOTE: Pace and brunton compass survey

TUNGSTEN

LEGEND

○42 Sample no.

Range in p.p.m.

- ●
- ◓
- ◒ 20 - 39
- ◐ 10 - 19
- ◑ 5 - 9
- ○ 0 - 4

JAILBIRD PROSPECT

93 L / 7

ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 2

LCP LONGITUDE 126° 53' 40" W
LATITUDE 54° 26' 20" N

JAILBIRD LCP
816 (10)

LCP JAILBIRD 2
869 (11)

BRECCIA FRAGMENTS
110, 111, 112, 113, 114, 115, 117

NOTE: Pace and brunton compass survey

T I N

L E G E N D

○42 Sample no.

Range in p.p.m.

- ●
- ◓ 40 +
- ◒ 20 - 39
- ◐ 10 - 19
- ◑ 5 - 9
- ○ 0 - 4

JAILBIRD PROSPECT

93 L / 7

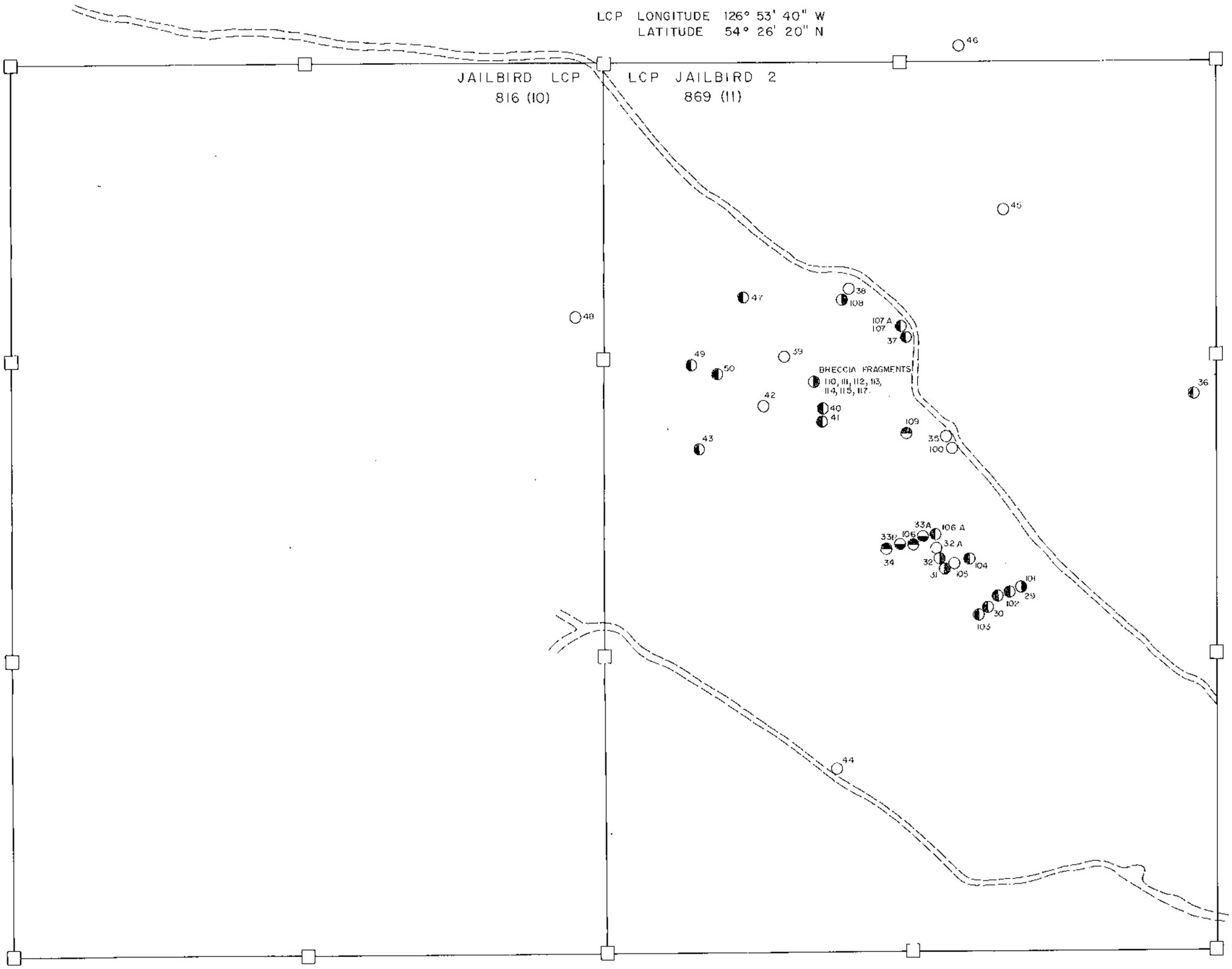
ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 3



NOTE: Pace and brunton compass survey

FLUORINE

LEGEND

○42 Sample no.

Range in p.p.m.

- ● 1350 +
- ◓ 950 - 1350
- ◒ 650 - 950
- ◐ 450 - 650
- ◑ 350 - 450
- ○ 0 - 350

JAILBIRD PROSPECT

93 L / 7

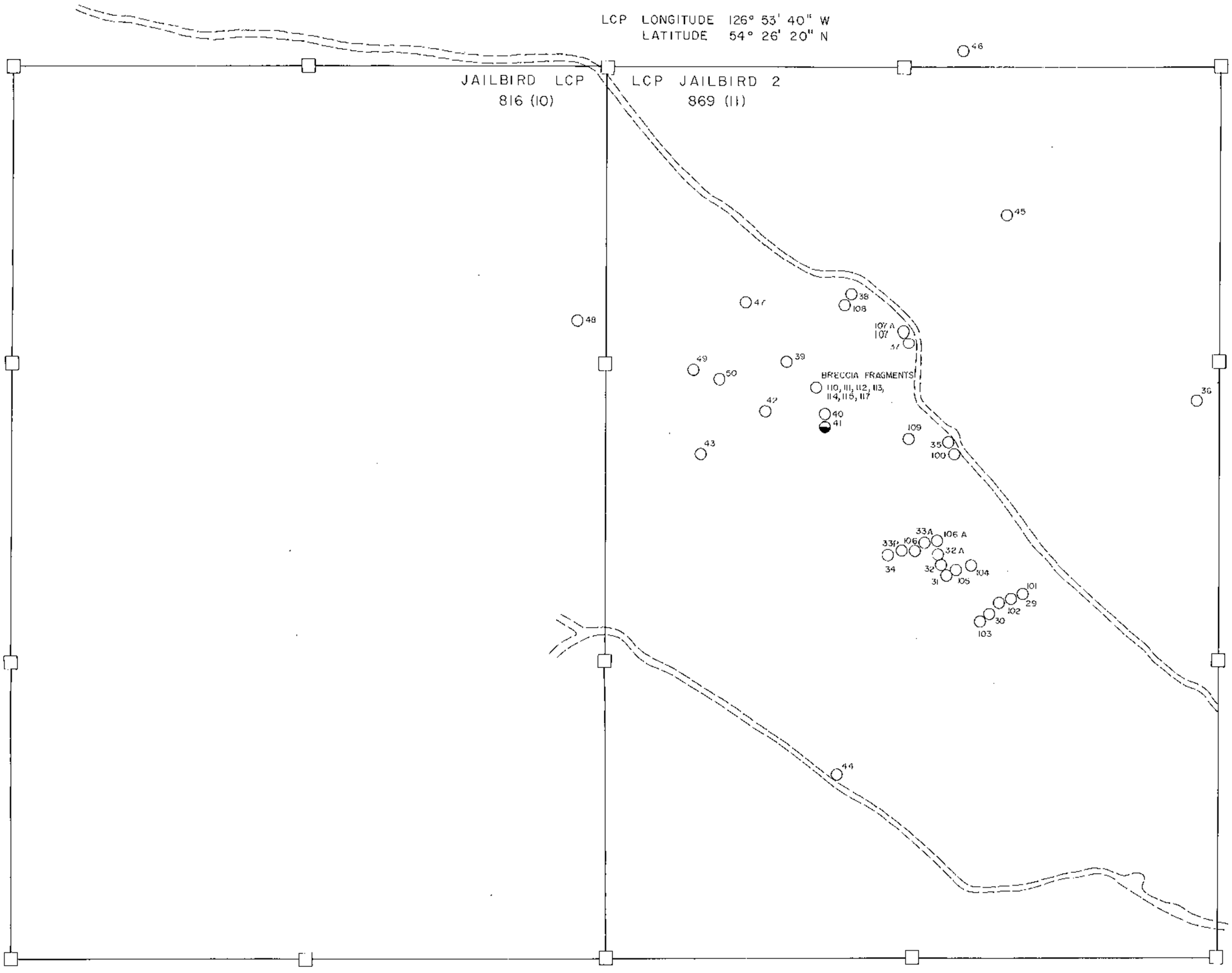
ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 4



NOTE: Pace and brunton compass survey

COPPER

LEGEND

○42 Sample no.

Range in p.p.m.

- ●
- ◓
- ◒ 400 - 800
- ◐ 200 - 400
- ◑ 100 - 200
- ○ 0 - 100

Samples 100-117 not assayed

JAILBIRD PROSPECT

93 L / 7

ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 5

LCP LONGITUDE 126° 53' 40" W
LATITUDE 54° 26' 20" N

JAILBIRD LCP
816 (10)

LCP JAILBIRD 2
869 (11)

BRECCIA FRAGMENTS
110, 111, 112, 113, 114, 115, 117.

NOTE: Pace and brunton compass survey

ZINK

LEGEND

○42 Sample no.

Range in p.p.m.

- ● 800 +
- ◓ 400 - 799
- ◒ 200 - 399
- ◐ 100 - 199
- ◑ 50 - 99
- ○ 0 - 49

Samples 100 - 117 not assayed.

JAILBIRD PROSPECT

93 L / 7

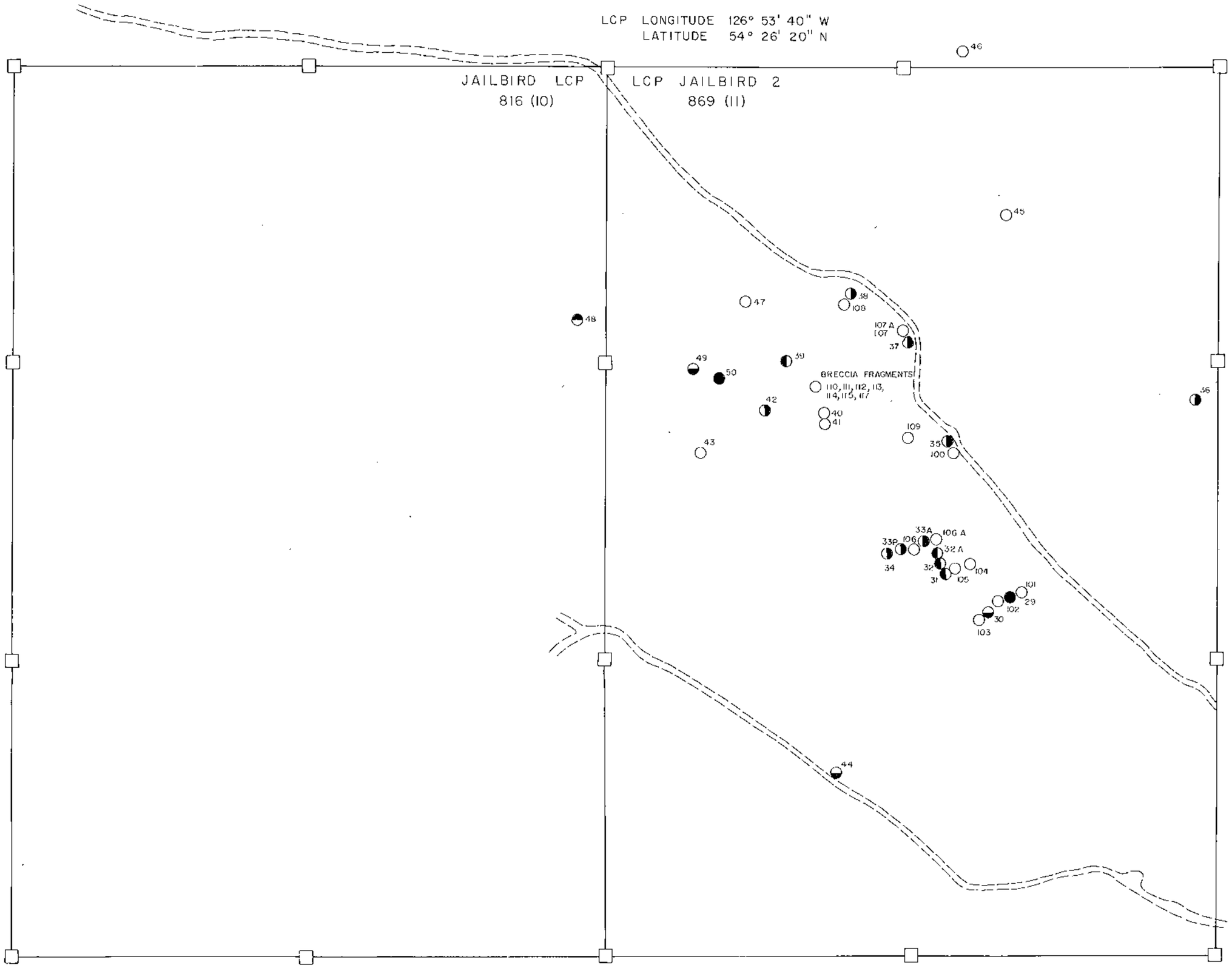
ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 6



NOTE: Pace and brunton compass survey

L E A D

L E G E N D

○42 Sample no.

Range in p.p.m.

- ● 320 +
- ◓ 160 – 319
- ◒ 80 – 159
- ◐ 40 – 79
- ◑ 20 – 39
- ○ 0 – 19

Samples 100-117 not assayed

JAILBIRD PROSPECT

93 L / 7

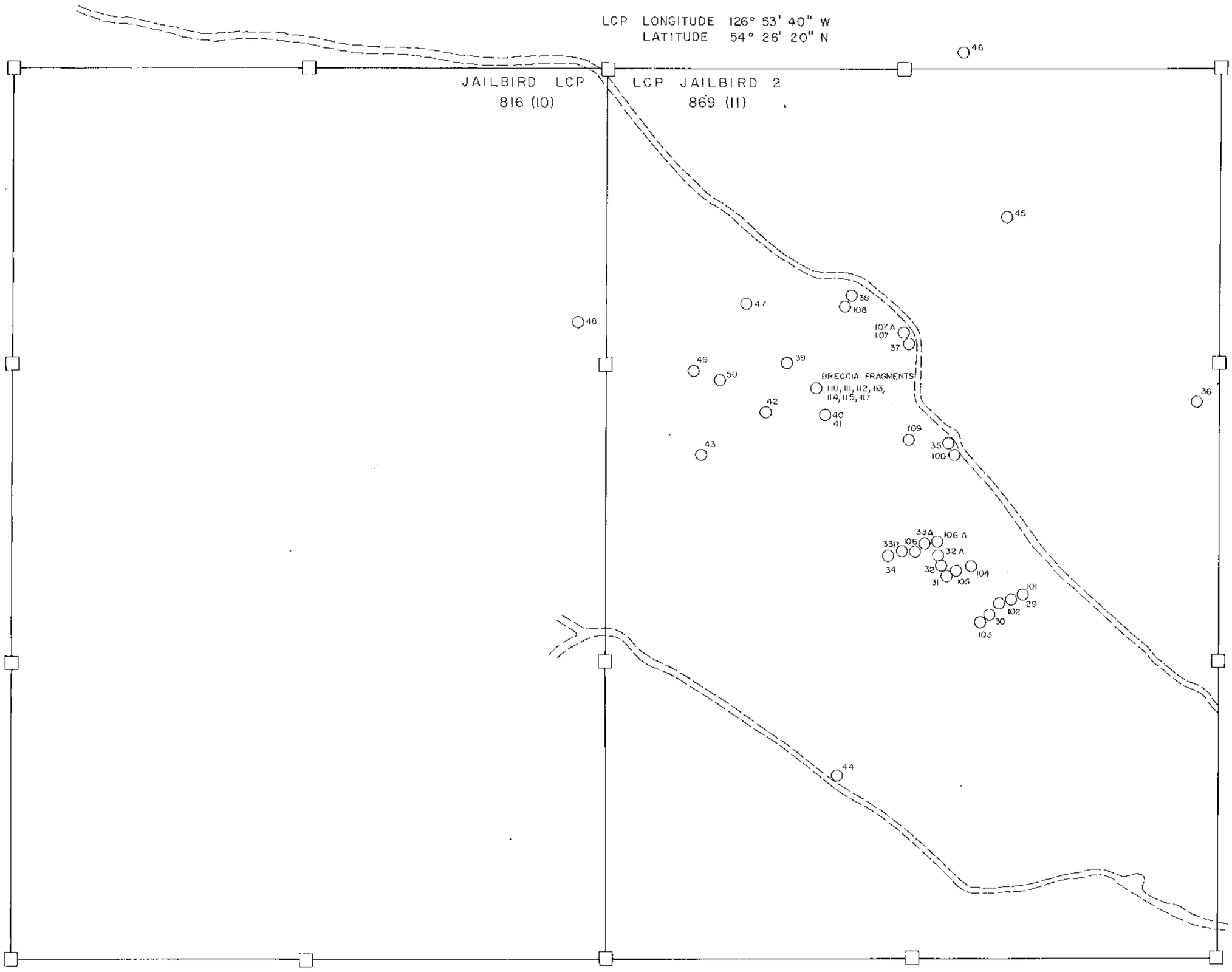
ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 7



NOTE: Pace and brunton compass survey

MANGANESE

LEGEND

○42 Sample no.

Range in p.p.m.

- ●
- ◒
- ◒
- ◐
- ◑ 200 – 400
- ○ 0 – 200

Samples 29 – 50 not assayed

JAILBIRD PROSPECT

93 L / 7

ROCK GEOCHEMISTRY

0 400 800 1200
FEET

0 100 200 300 400
METRES

7060

MAP No. 8