

NORCEN ENERGY RESOURCES LIMITED  
ASSESSMENT REPORT  
GEOCHEMICAL PROGRAM  
GROUP XVIII  
GOLDEN MINING DISTRICT  
BRITISH COLUMBIA

CLAIMS: WC7, WC12

LOCATION: 45 km south of Golden, British Columbia

LATITUDE: 50° 52' N

LONGITUDE: 116° 49' W

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
8100  
NO

part 202

L. Smith, P. Geol.  
A. Slingsby

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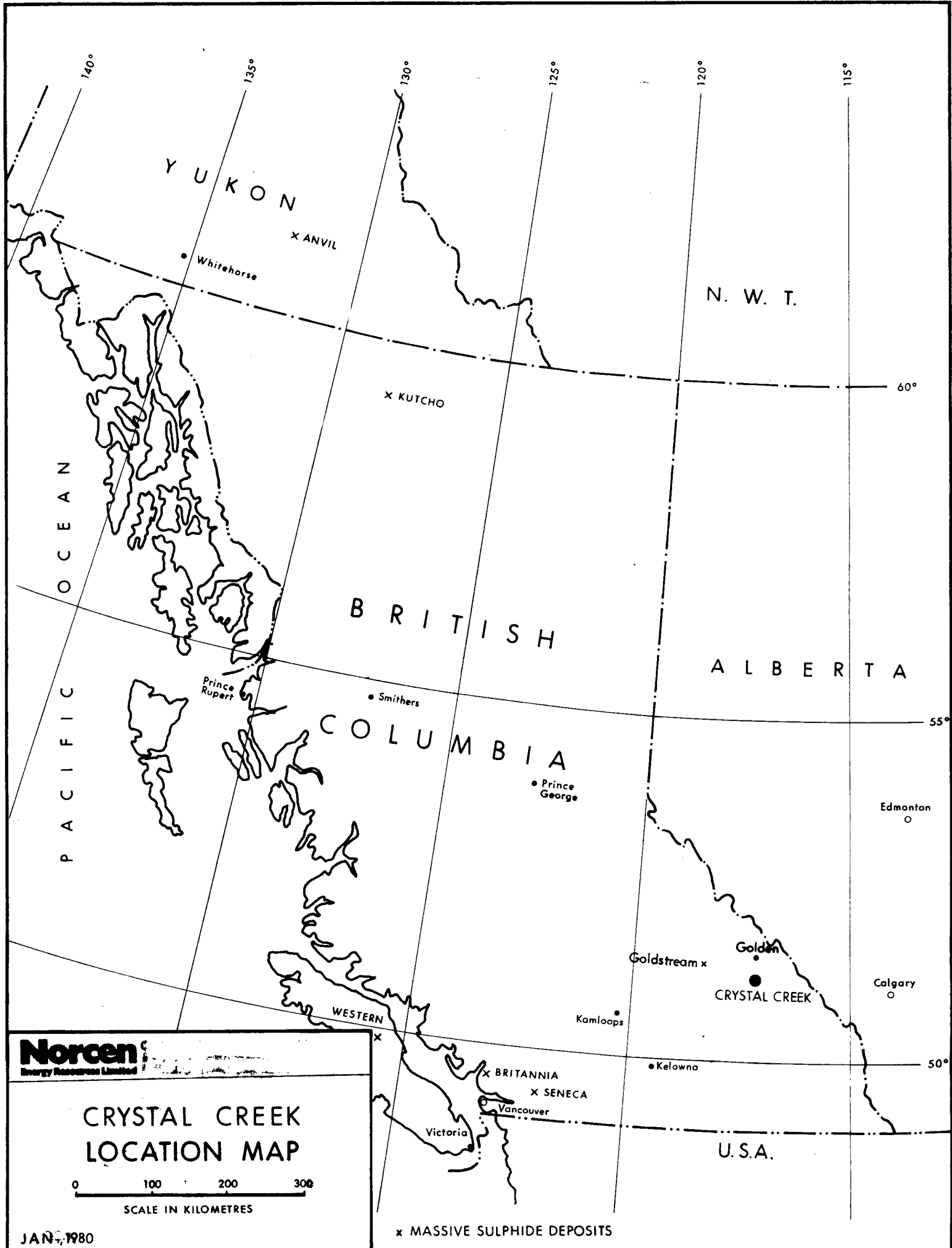
## SUMMARY

A total of 958 soil samples, 96 stream sediment samples and 26 rock samples were collected during a reconnaissance geochemical survey of the Crystal Creek property. The soil and stream sediments were analyzed for their content of iron, manganese, lead, zinc, copper and silver. Rock samples were analyzed by induction coupled argon plasma spectrometry for nine major oxides and 15 minor and trace elements. Of these samples 68 soil samples were taken within the boundaries of Group XVIII. An 1:20,000 orthophoto produced from 1976 Energy, Mines and Resources aerial photograph by North West Survey Corporation International Ltd. of Edmonton, Alberta, was used for control of sampling points. The samples were taken on June 8, 9 and 15.

Soil samples were taken from B horizon where available. Notes as to topograph, vegetation, drainage, soil types, etc. were taken. Stream samples were taken where available. Rock samples were taken where soil was not available or where the rock appeared to have an anomalous metal content. The samples are generally of shale.

## LOCATION AND ACCESS

The claims are located in the Purcell Mountains approximately 45 kilometres south of Golden, British Columbia. Access to the property is by paved highway 95 to Parson, British Columbia and hence by 52 kilometres of logging road along Bobby Burns and Vowell Creeks.



**Norcen**  
Energy Resources Limited


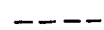
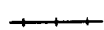

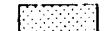
# CRYSTAL CREEK LOCATION MAP

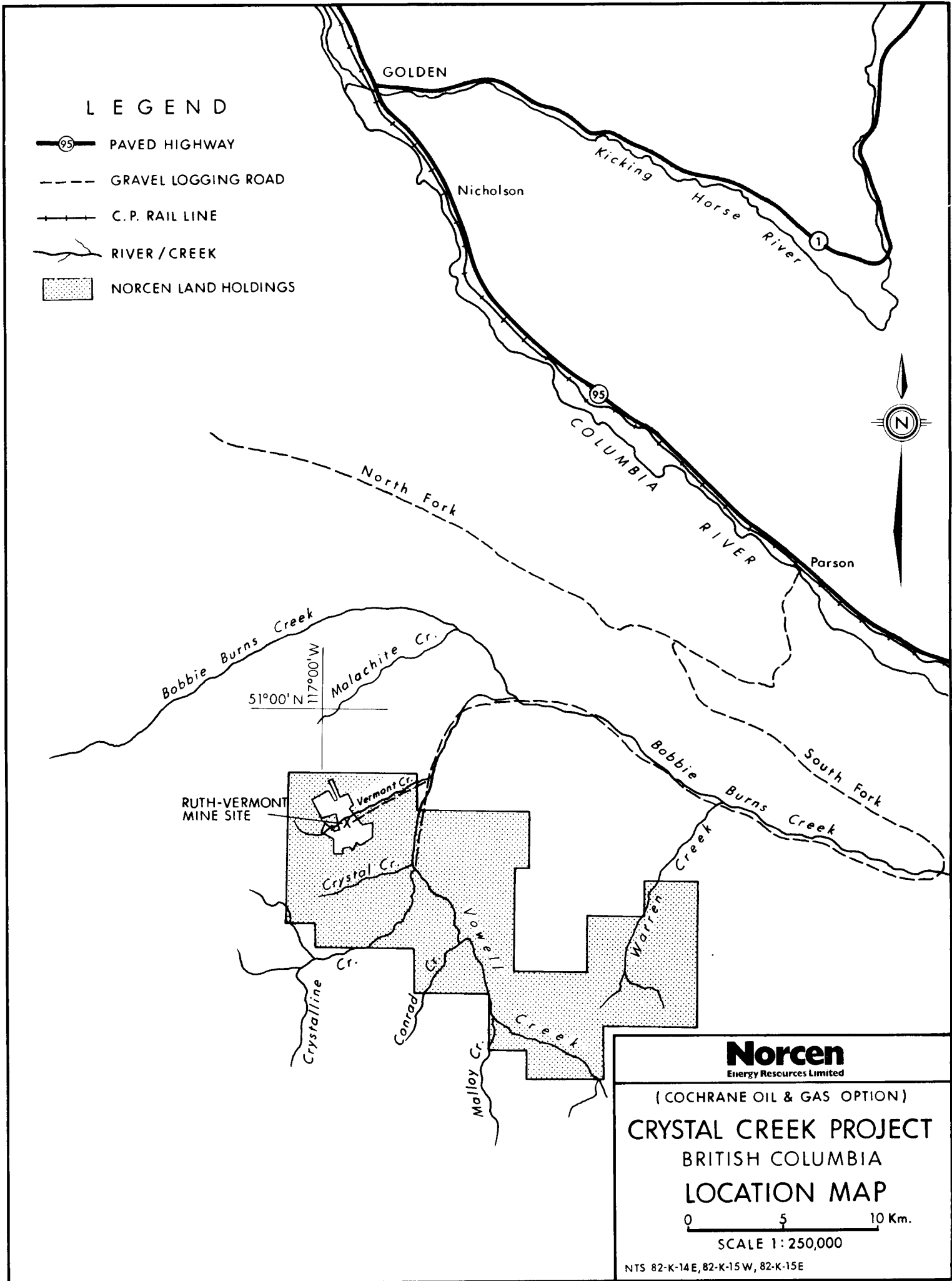


JAN 1980

x MASSIVE SULPHIDE DEPOSITS

L E G E N D

-  PAVED HIGHWAY
-  GRAVEL LOGGING ROAD
-  C. P. RAIL LINE
-  RIVER / CREEK
-  NORCEN LAND HOLDINGS



**Norcen**  
Energy Resources Limited

( COCHRANE OIL & GAS OPTION )  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**LOCATION MAP**

0 5 10 Km.

SCALE 1 : 250,000

NTS 82-K-14E, 82-K-15W, 82-K-15E

CLAIMS STATUS

The WC7 and WC12 claims form part of the Crystal Creek property. They have been grouped together to form Group XVII.

Claim Name	Record Number	Recorded Date	# of Units
WC7	312	June 18, 1979	18
WC12	317	June 18, 1979	16



## GEOCHEMICAL SAMPLING

A total of 68 soil samples were collected on Group XVIII. All samples were sent to Barringer Magenta Limited of No. 105 3750 19th Street N.E., Calgary, Alberta. The soil and sediment samples were analyzed for lead, zinc, silver, copper, iron and manganese by atomic absorption.

Statistical analysis of the data for the entire property produced the following means and standard deviations:

Soils	Mean	Standard Deviation
Ag(ppm)	.319	.25
Cu(ppm)	27.1	24.4
Pb(ppm)	22.4	54.3
Zn(ppm)	65.0	43.4
Mn(ppm)	344	478
Fe (%)	3.41	1.19

## Stream Sediments

	Mean	Standard Deviation
Ag (ppm)	.206	.132
Cu (ppm)	33.0	22.8
Pb (ppm)	13.5	8.7
Zn (ppm)	52.0	31.3
Mn (ppm)	372	192
Fe (ppm)	4.15	1.28

Analysis of the soil samples from Group XVIII showed the area to have a low content of Pb, Zn and Mn, excepting one highly anomalous Mn value (No. 1115). Fe content is slightly above average. The eastern portion of the block has some anomalous copper values and the southern portion appears enriched in silver.

ITEMIZED STATEMENT OF EXPENDITURES

A. SALARIES

A. Slingsby - Project Preparation - April 14	\$ 125 00
- Supervision - June 9	125 00
- Geochemical Sampling - June 8	125 00
P. Collender - Geochemical Sampling - June 8, 15	250 00
L. Hettinga - Geochemical Sampling - June 8, 15	180 00
K. Collard - Geochemical Sampling - June 9	90 00
G. Robb - Geochemical Sampling - June 9	90 00
B. Wasylyshayn - Geochemical Sampling - June 8	90 00

B. ACCOMMODATION AND MEALS

9 man days @ \$41/day	369 00
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C. TRANSPORTATION

Truck Rental 3 days @ \$23.50/day	70 50
Helicopter .7 hr. @ \$408/hr	285 60

D. ASSAYING AND ORTHOPHOTO

68 soils @ \$6/sample	408 00
34 units (photo) @ \$10/unit	340 00
TOTAL EXPENDITURES	<u>\$2 548 10</u>

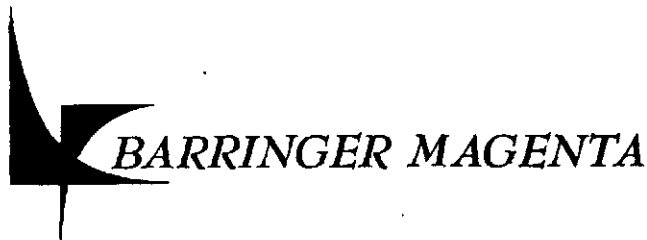
STATEMENT OF QUALIFICATIONS

I, Laurie James Smith, of the City of Calgary in the Province of Alberta, do hereby state:

1. I am a graduate of the University of Calgary with a B Sc degree in Geology.
2. I have been involved in all phases of geological exploration in many areas of Canada (British Columbia, Alberta, Saskatchewan, Northwest Territories, Ontario, Quebec, Nova Scotia and New Brunswick) since graduation.
3. I supervised the geochemical soil sampling on Group XVIII.
4. I am a member of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.
5. I am the holder of valid Free Miners License Number 197331.

Laurie J. Smith

APPENDIX I  
ASSAY CERTIFICATES



BARRINGER MAGENTA LIMITED  
 OFFICES & MINERALS  
 LABORATORY:  
 3750 - 19th ST., N.E. SUITE 105  
 CALGARY, ALBERTA T2E 6V2  
 PHONE: (403) 278-9701  
 TELEX: 03-827584

AUTHORITY: ART SLINGSBY

03/SEP/80  
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 WORK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
 715-5TH AVE. S.W.  
 CALGARY, ALBERTA  
 T2P 2X7

SAMPLE GROUP #18

\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:  
 SOIL

SAMPLE NUMBER	AG PPM	CU PPM	FE %	MN PPM	PB PPM
1112	.6	23.	3.43	220.	10.
1113	.6	33.	2.78	270.	26.
1114	.1	34.	3.92	220.	7.
1115	.5	14.	3.38	2950.	15.
1116	.1	15.	3.67	575.	26.
1117	.4	28.	4.66	175.	12.
1118	.5	18.	3.89	135.	12.
1119	.7	16.	4.37	150.	20.
1120	.3	5.	2.62	160.	5.
1121	.1	18.	3.45	205.	10.
1127	.5	14.	3.71	545.	12.
1128	.7	18.	2.73	81.	19.
1129	.6	13.	2.53	105.	15.
1130	.3	15.	4.35	145.	7.
1131	.4	29.	4.01	655.	21.
1132	.5	14.	3.71	100.	8.
2087	N D	20.	3.85	160.	10.
2088	.3	31.	4.43	360.	9.
2089	.2	14.	3.83	210.	8.
2090	.8	32.	4.19	245.	9.
2091	.4	26.	2.64	68.	12.
2092	.1	15.	2.52	115.	7.
2093	.3	20.	3.5	155.	19.
2094	.2	15.	2.72	84.	13.
2095	N D	17.	3.78	130.	6.
3203	.5	27.	4.2	275.	20.
3204	.5	23.	4.22	159.	12.
3205	N D	19.	3.53	158.	12.
3206	.1	34.	4.34	300.	10.
3207	.1	19.	4.15	129.	13.

\*P=QUESTIONABLE PRECISION; \*I=INTERFERENCE; IS=INSUFFICIENT SAMPLE  
 NA=NOT ANALYZED; ND=NOT DETECTED; MS=MISSING SAMPLE; T=TRACE



BARRINGER MAGENTA LIMITED  
 OFFICES & MINERALS  
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 WORK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
 715-5TH AVE. S.W.  
 CALGARY, ALBERTA  
 T2E 2X7

SAMPLE GROUP #18

\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:  
 SOIL

SAMPLE NUMBER	AG PPM	CU PPM	FE %	MN PPM	PB PPM
3208	.5	9.	3.05	33.	7.
3209	.1	29.	3.77	407.	13.
3210	.1	34.	4.27	301.	7.
3211	.2	33.	4.47	265.	9.
3212	.4	29.	2.79	96.	12.
3213	.3	24.	3.42	171.	12.
3214	N D	17.	3.31	124.	8.
3215	N D	27.	2.53	96.	14.
3301	N D	13.	2.54	235.	21.
3302	N D	17.	1.8	55.	11.
3303	N D	19.	2.75	650.	12.
3304	N D	22.	4.	440.	16.
3305	N D	14.	1.78	200.	13.
3306	N D	33.	4.21	105.	30.
3307	.1	7.	1.17	60.	12.
3308	N D	10.	2.48	70.	9.
3309	N D	9.	2.64	25.	10.
3310	N D	15.	6.55	170.	10.
3311	N D	22.	3.43	495.	12.
3312	N D	69.	7.41	650.	28.
3313	.1	200.	6.14	910.	36.
3314	N D	66.	5.29	615.	28.
3315	.1	77.	6.89	635.	30.
3316	.3	10.	1.	85.	6.
3317	.2	14.	3.28	195.	15.
3318	N D	27.	2.56	245.	23.
3319	N D	8.	1.27	50.	10.
3320	N D	63.	5.04	355.	14.
3323	.2	17.	5.03	220.	12.
3324	N D	26.	4.53	225.	16.

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 WORK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
 715-5TH AVE. S.W.  
 CALGARY, ALBERTA  
 T2P 2X7

SAMPLE GROUP #18

\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE NUMBER	AG PPM	CU PPM	FE %	MN PPM	PB PPM
3325	N D	13.	1.82	60.	10.
5016	.1	29.	2.94	158.	19.
5017	.2	17.	3.57	161.	10.
5018	N D	12.	4.78	152.	8.
5022	.3	29.	.59	951.	25.
5023	.1	9.	1.37	65.	11.
5024	.2	13.	3.1	147.	16.
5025	.9	18.	3.97	167.	13.

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 WORK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
 715-5TH AVE.S.W.  
 CALGARY, ALBERTA  
 T2P 2X7

SAMPLE GROUP #18

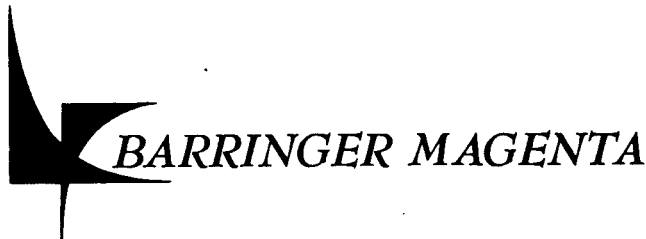
\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE NUMBER	ZN PPM
1112	61.
1113	67.
1114	64.
1115	64.
1116	54.
1117	67.
1118	62.
1119	53.
1120	45.
1121	53.
1127	61.
1128	37.
1129	40.
1130	81.
1131	67.
1132	56.
2087	69.
2088	65.
2089	62.
2090	78.
2091	39.
2092	35.
2093	65.
2094	40.
2095	65.
3203	52.
3204	71.
3205	58.
3206	75.
3207	65.



BARRINGER MAGENTA LIMITED  
OFFICES & MINERALS  
LABORATORY:  
3750 - 19th ST., N.E., SUITE 105  
CALGARY, ALBERTA T2E 6V2  
PHONE: (403) 276-9701  
TELEX: 03-827584

AUTHORITY: ART SLINGSBY

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WORK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
715-5TH AVE, S.W.  
CALGARY, ALBERTA  
T2P 2X7

SAMPLE GROUP #18

\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE NUMBER	ZN PPM
3208	29.
3209	66.
3210	79.
3211	74.
3212	36.
3213	54.
3214	47.
3215	40.
3301	43.
3302	19.
3303	47.
3304	104.
3305	36.
3306	43.
3307	16.
3308	25.
3309	6.
3310	51.
3311	60.
3312	95.
3313	95.
3314	93.
3315	105.
3316	8.
3317	43.
3318	74.
3319	14.
3320	90.
3323	56.
3324	61.



**BARRINGER MAGENTA**

AUTHORITY: ART SLINGSBY

**BARRINGER MAGENTA LIMITED**  
OFFICES & MINERALS  
LABORATORY:  
3750 - 19th ST., N.E., SUITE 105  
CALGARY, ALBERTA T2E 6V2  
PHONE: (403) 276-9701  
TELEX: 03-827584

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WRK ORDER # NORCEN

NORCEN ENERGY RESOURCES  
715-5TH AVE. S.W.  
CALGARY, ALBERTA  
T2P 2X7

SAMPLE GROUP #18

\*\*\*FINAL REPORT\*\*\*

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE NUMBER	ZN PPM
3325	15.
5016	62.
5017	51.
5018	44.
5022	50.
5023	18.
5024	46.
5025	55.

WD 80:80-0457 ANALYSIS DATE: 09/07/80 MATRIX: HF

FILE: 10-0457

SAMPLE ID	AL2O3 %	FE2O3 %	CaO %	MgO %	TI02 %	MnO2 %	Na2O %	K2O %	P2O5 %
1146-R	22.8	8.76	.211	2.87	.402	.0821	.771	4.13	.13
2001-R	10.9	7.35	.124	.989	.282	.0243	.315	2.93	.14
2002-R	5.73	5.09	.512	.570	.0590	.110	.623	.932	.03
2003-R	11.3	7.19	1.85	2.10	.243	.229	.464	1.41	.06
2004-R	22.3	10.6	1.45	3.63	.533	.370	1.25	3.23	.11
5001-R	24.8	11.1	.213	3.34	.598	.119	1.06	3.58	.15
5002-R	21.8	9.24	.114	2.81	.571	.0673	.900	4.07	.09
5003-R	23.6	10.3	.033	2.19	.460	.118	1.05	3.17	.13
5004-R	7.84	4.76	1.37	.407	.103	.0871	1.40	.722	.02
1187-R	14.1	5.13	.112	2.97	.385	.0313	1.97	2.14	.05
1189-R	10.6	7.00	.090	2.48	.394	.0522	1.85	1.23	.05
1194-R	13.1	4.79	.078	1.58	.693	.0385	1.19	2.04	.03
2005-R	14.3	13.3	3.24	3.19	.422	.695	.755	1.63	.02
2006-R	15.6	10.7	3.19	3.18	.420	.761	.750	2.33	.06
2007-R	9.16	8.70	20.4	9.52	.166	2.12	.336	2.40	.18
2008-R	26.1	6.31	.169	1.98	.547	.0514	1.24	4.53	<.01
2009-R	24.1	8.77	.061	3.10	.565	.0513	1.12	3.58	.05
2010-R	24.5	12.8	.584	2.46	.313	2.28	1.02	3.83	.20
3001-R	8.61	4.03	.081	1.34	.126	.0574	2.82	.647	.03
3002-R	.625	1.12	.022	.0355	.0034	.0188	<.003	.102	<.01
3003-R	.592	2.82	.865	.0804	.0029	.0150	<.003	.118	.52
3004-R	.464	3.98	.048	.0277	.0033	.0536	<.003	.075	<.01
3005-R	1.95	38.5	.003	.0325	.0232	.0091	.019	.465	<.01
3006-R	4.60	6.28	2.16	1.07	.0545	.124	.185	.903	.07
5005-R	4.71	1.96	.774	.216	.0435	.0813	1.72	.405	.01
5006-R	19.3	8.60	.102	2.42	.416	.142	1.30	3.11	.09
5007-R	9.56	4.65	.470	1.24	.356	.0610	2.09	1.05	.04
5008-R	22.7	8.03	.168	2.38	.423	.105	1.21	3.66	.15

WD NO:R0-0457 ANALYSIS DATE: 09/07/80 MATRIX: BF

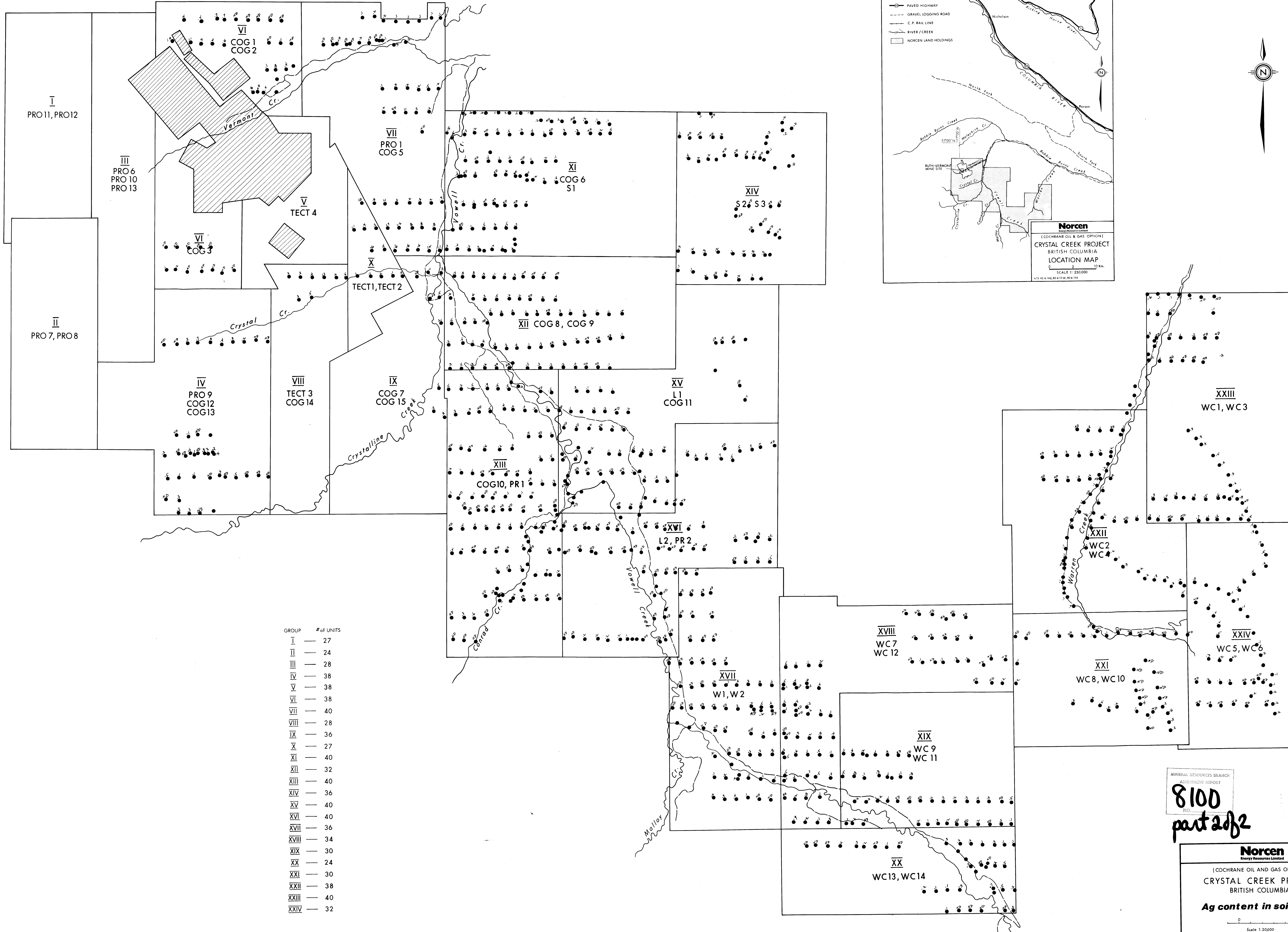
FILE:T0-0457

SAMPLE ID	BF PPM	CU PPM	CR PPM	CO PPM	CI PPM	PN PPM	NI PPM	AG PPM
1146-R	2.0	<7	385	31	14.9	<5	68	<5
2001-R	1.2	<7	2240	40	27.4	35	26	<5
2002-R	.7	<7	1890	57	27.7	30	44	<5
2003-R	.9	<7	1140	46	68.1	<5	57	<5
2004-R	2.1	<7	322	46	45.5	15	95	<5
5001-R	2.0	<7	178	30	35.7	<5	78	<5
5002-R	2.0	<7	414	25	30.1	500	71	<5
5003-R	2.4	<7	341	29	43.9	<5	73	<5
5004-R	.7	7	1990	26	23.2	<5	36	<5
1107-R	1.5	<7	1120	28	7.1	<5	53	<5
1189-R	.6	<7	1700	36	23.1	15	60	<5
1190-R	1.5	<7	1150	29	9.1	<5	41	<5
2005-R	1.2	<7	502	30	47.6	10	88	<5
2006-R	1.6	<7	576	33	82.0	20	77	<5
2007-R	.9	10	84.9	17	5.1	70	32	<5
2008-R	3.5	<7	369	<3	8.1	10	40	<5
2009-R	2.5	<7	189	18	25.1	<5	58	<5
2010-R	2.9	<7	82.7	67	57.9	5	118	<5
3001-R	.4	<7	1120	23	9.5	25	37	<5
3002-R	.1	36	1480	23	833	41000	13	462
3003-R	.1	442	887	17	2000	10000	15	493
3004-R	.2	43	4560	64	9560	17200	47	263
3005-R	.4	<7	1100	152	94.3	1450	152	12
3006-R	.7	<7	1250	25	37.6	430	39	<5
5005-R	.2	<7	1580	24	8.9	165	17	<5
5006-R	2.1	<7	455	31	25.8	40	64	<5
5007-R	.6	<7	1240	31	2.9	75	39	<5
5008-R	2.5	<7	224	22	32.2	115	58	<5

WD NO:80-0457 ANALYSIS DATE: 09/07/80 MATRIX: HF

FILE:T0-0457

SAMPLE ID	SR PPM	TH PPM	ZR PPM	V PPM	ZN PPM	MO PPM
1146-R	68.3	23	50	100	93	<30
2001-R	41.8	26	56	124	27	40
2002-R	28.4	14	15	99.7	28	30
2003-R	48.9	18	49	103	72	40
2004-R	123	28	94	110	116	30
5001-R	110	22	97	118	112	<30
5002-R	83.3	19	119	120	110	<30
5003-R	115	25	94	113	102	<30
5004-R	44.2	12	22	73.9	33	<30
1187-R	67.8	8	45	104	39	<30
1189-R	43.3	9	33	113	52	<30
1191-R	43.3	28	42	153	36	<30
2005-R	83.0	13	46	111	132	<30
2006-R	121	15	90	106	87	<30
2007-R	274	11	37	45.4	41	<30
2008-R	149	14	44	122	77	<30
2009-R	114	18	93	118	95	<30
2010-R	137	15	61	100	184	30
3001-R	56.7	9	23	75.5	34	<30
3002-R	17.8	<6	<3	72.9	5090	<30
3003-R	64.0	<6	<3	36.3	86800	<30
3004-R	6.2	<6	<3	265	3990	<30
3005-R	13.8	<6	10	48.2	217	<30
3006-R	97.5	<6	10	77.9	86	<30
5005-R	19.2	<6	14	69.1	33	<30
5006-R	80.9	17	75	106	87	<30
5007-R	38.2	12	21	99.9	53	<30
5008-R	139	17	91	97.6	113	<30



GROUP	# of UNITS
I	27
II	24
III	28
IV	38
V	38
VI	38
VII	40
VIII	28
IX	36
X	27
XI	40
XII	32
XIII	40
XIV	36
XV	40
XVI	40
XVII	36
XVIII	34
XIX	30
XX	24
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XXII	38
XXIII	40
XXIV	32

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

8100  
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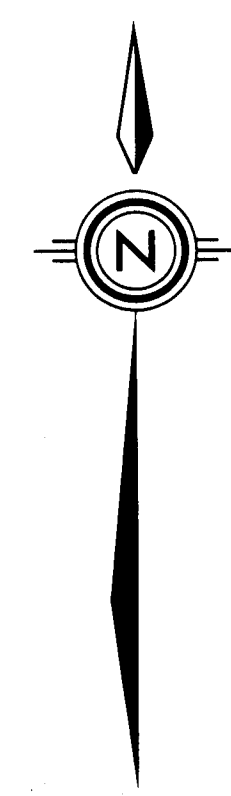
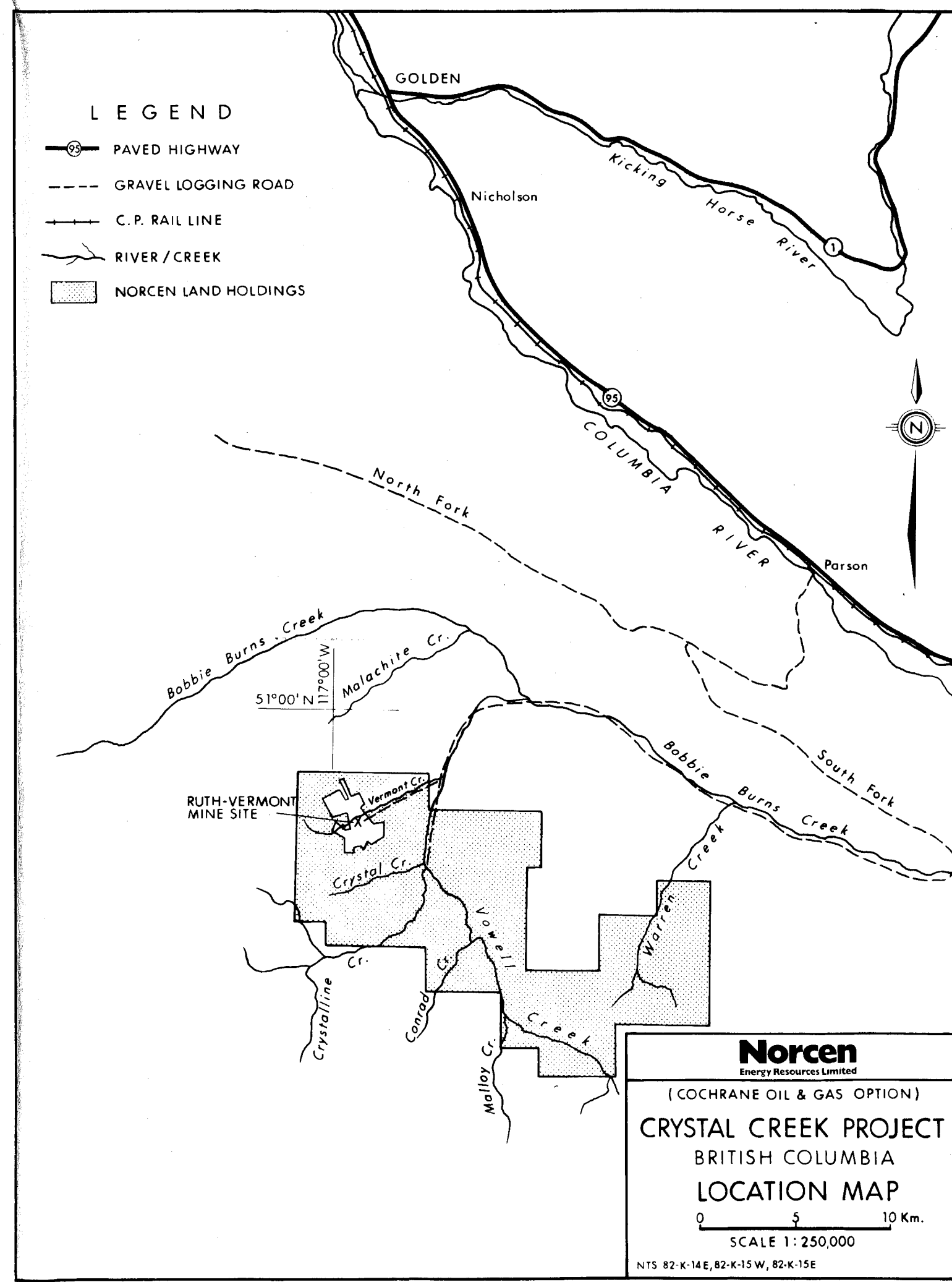
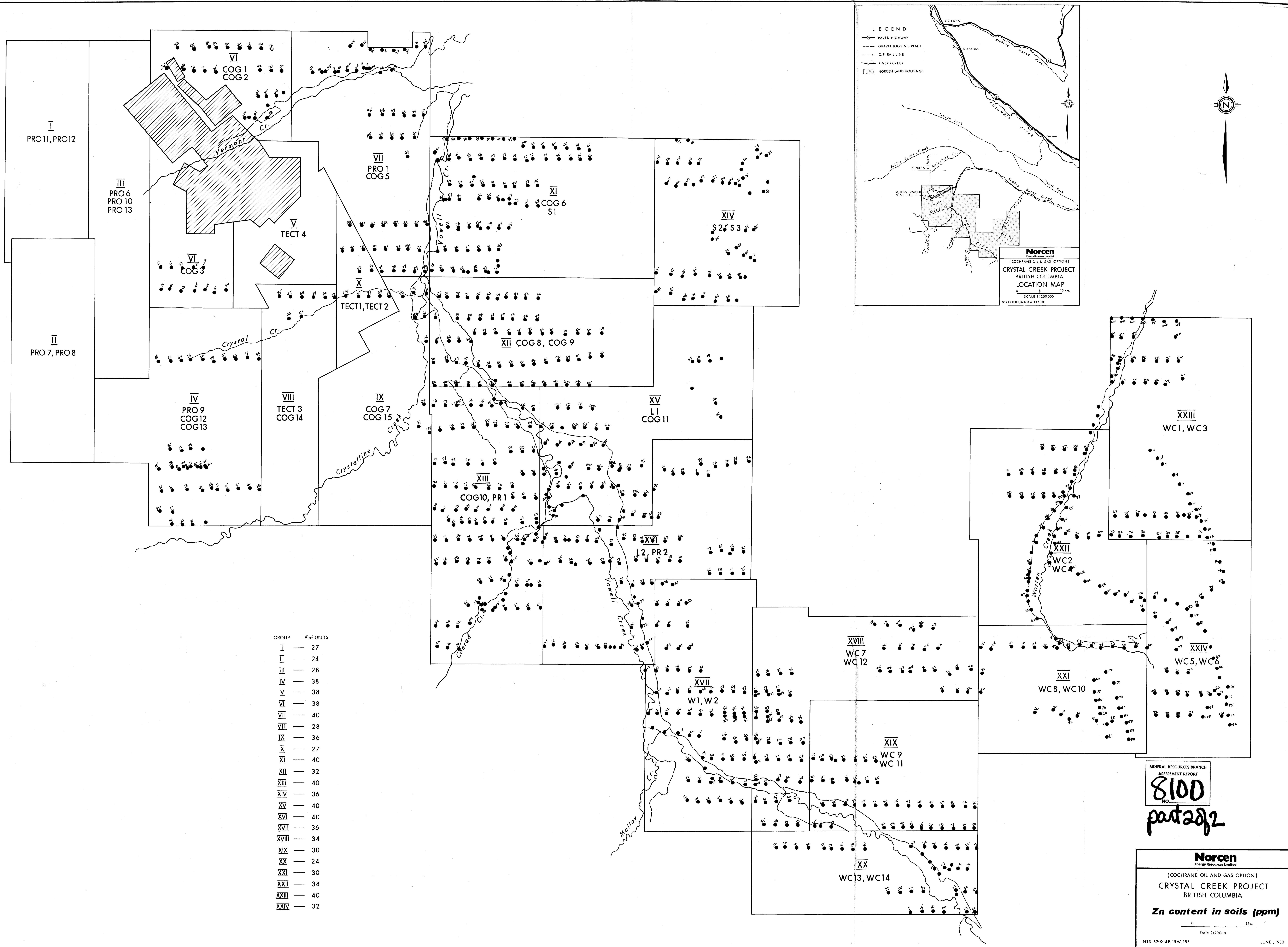
**Norcen**  
Energy Resources Limited

(COCHRANE OIL AND GAS OPTION)  
CRYSTAL CREEK PROJECT  
BRITISH COLUMBIA

**Ag content in soils (ppm)**

Scale 1:20000

NTS 82-K-14E, 15W, 15E JUNE, 1980

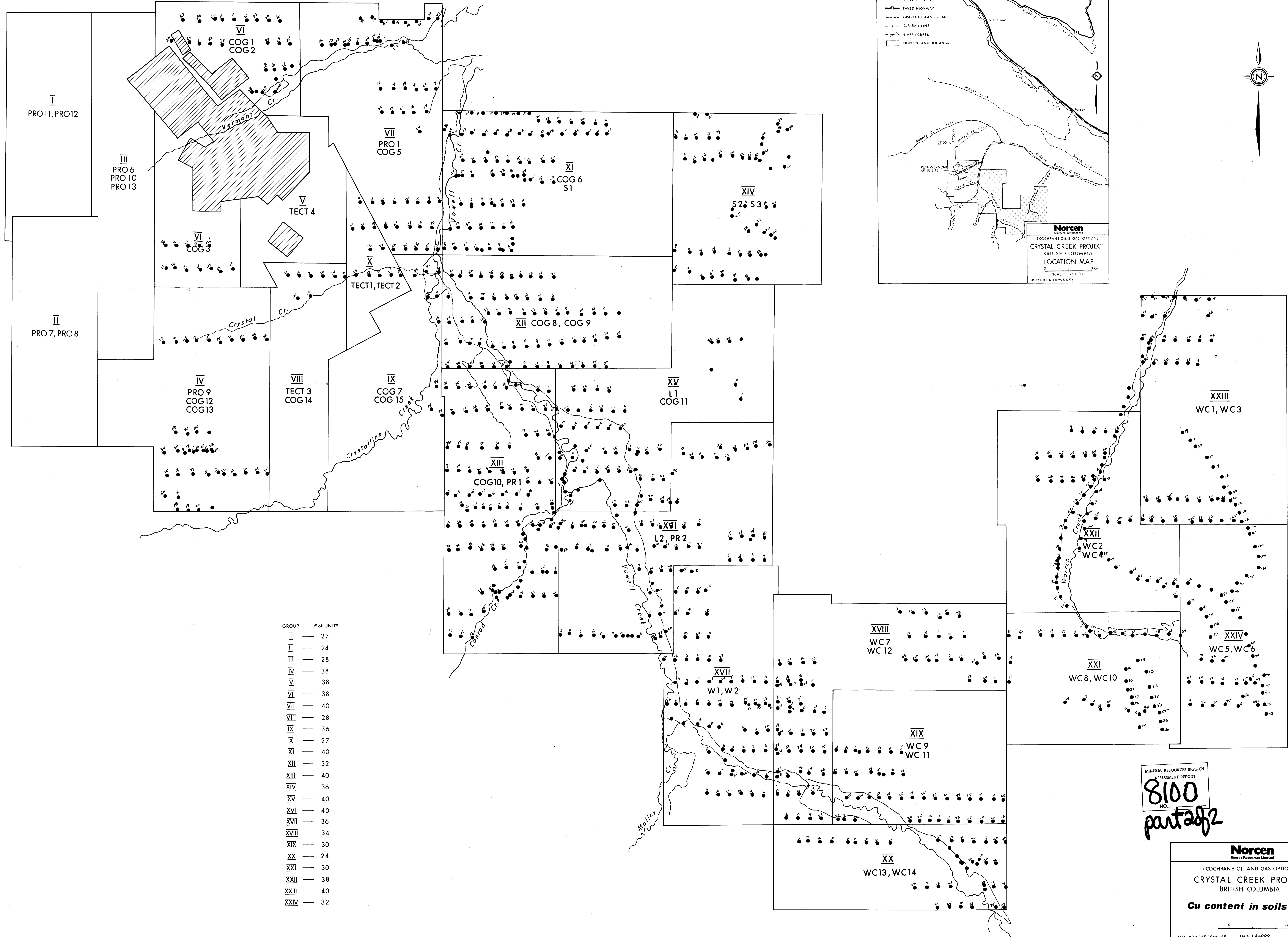


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IV	38
V	38
VI	38
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VIII	28
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X	27
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XII	32
XIII	40
XIV	36
XV	40
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XVII	36
XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32

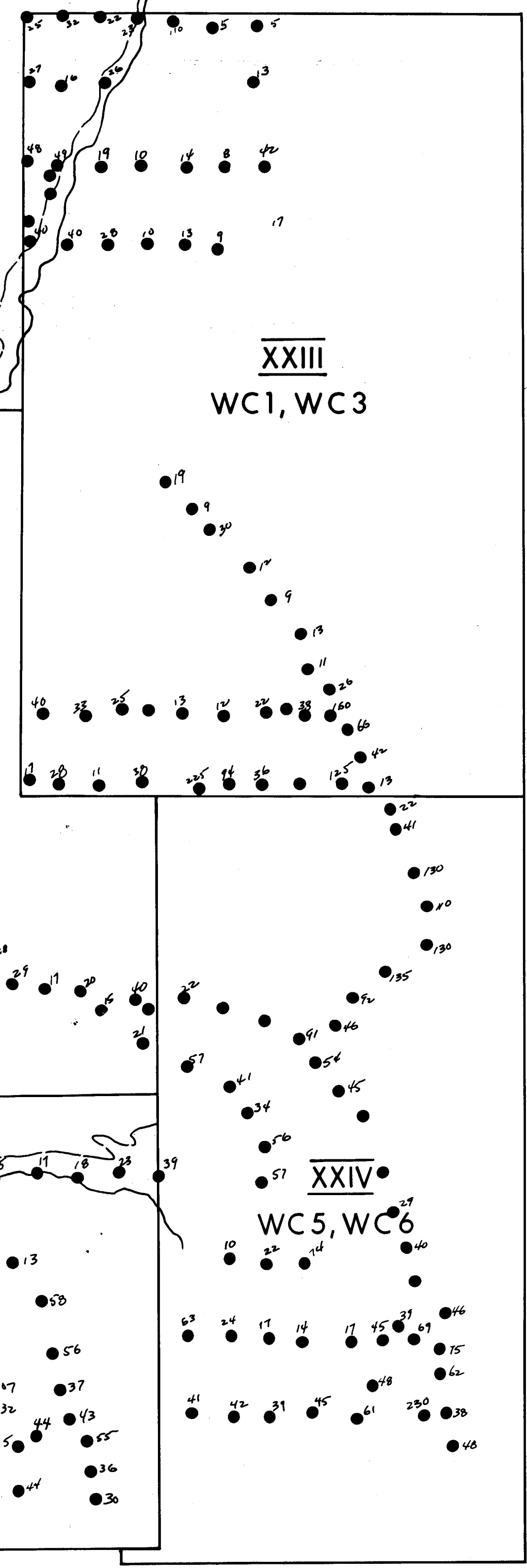
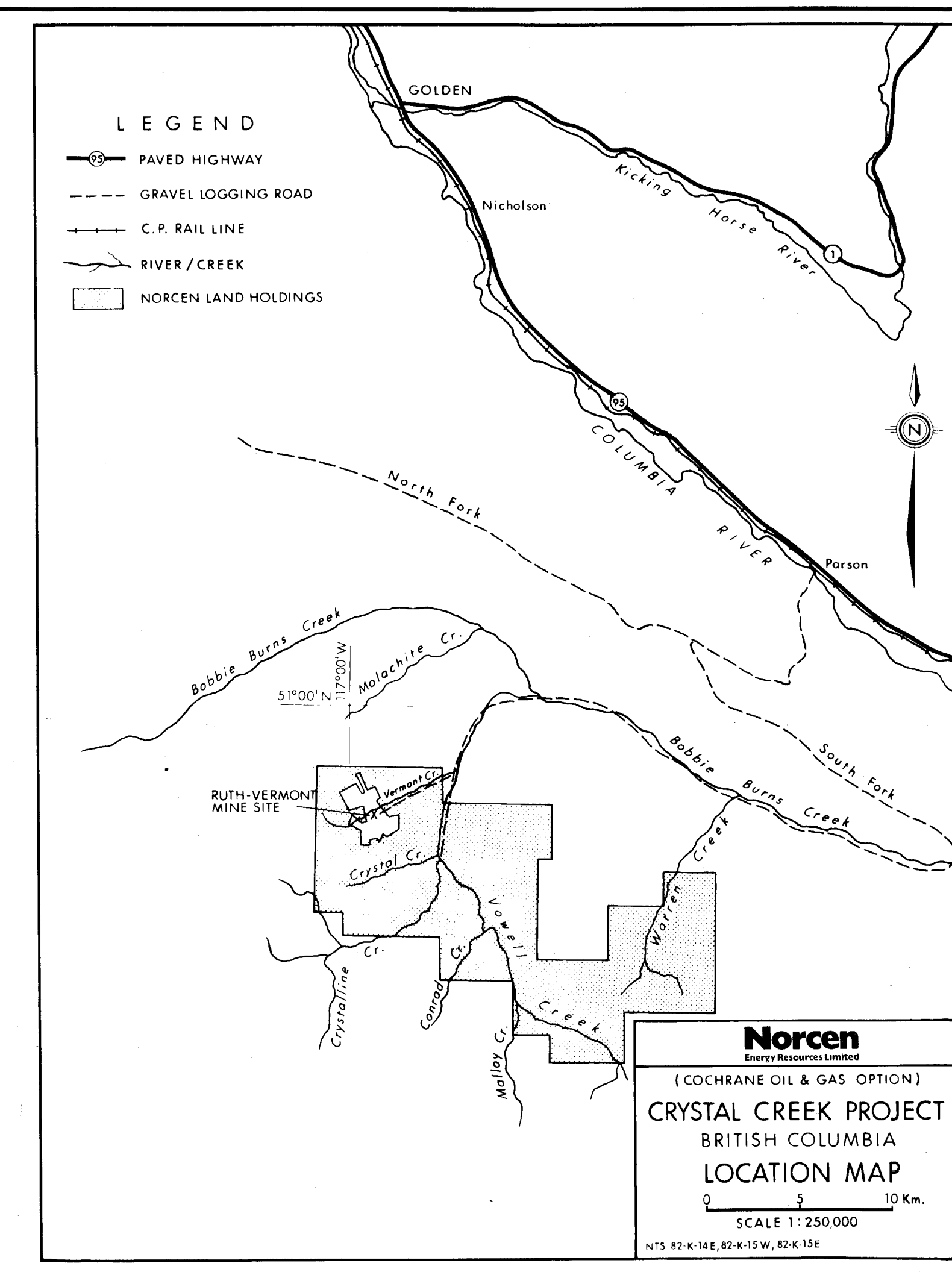
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8100**  
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**Norcen**  
Energy Resources Limited  
(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**Zn content in soils (ppm)**  
0 1km  
Scale 1:20000  
NTS 82-K14E, 15W, 15E JUNE, 1980





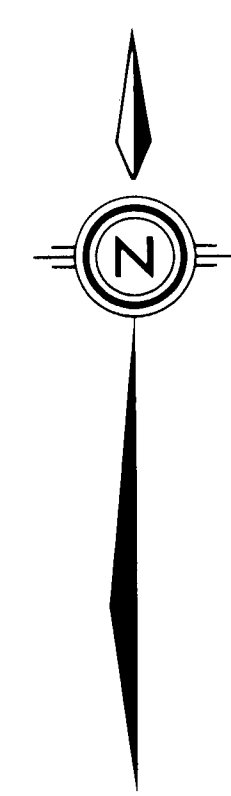
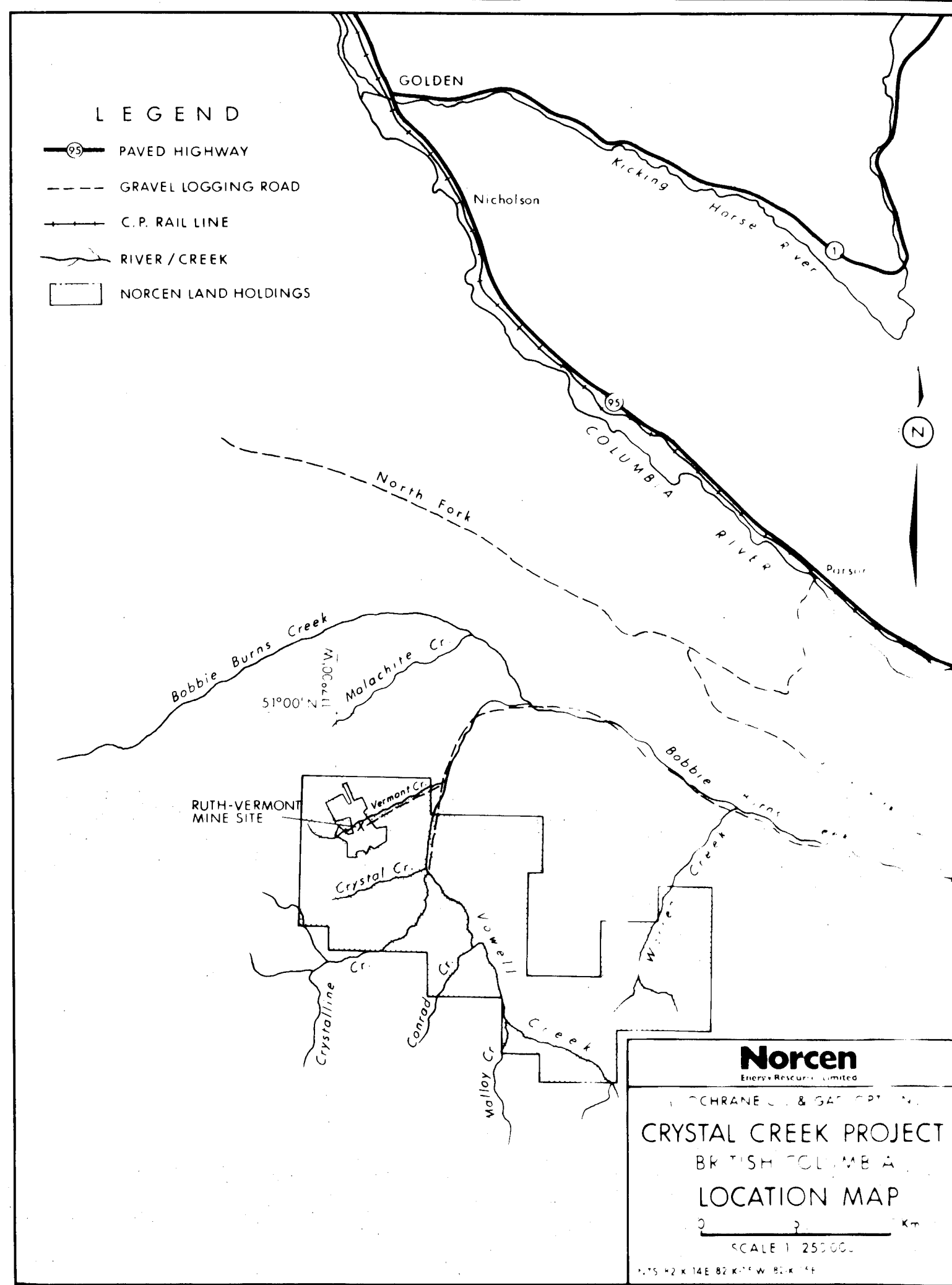
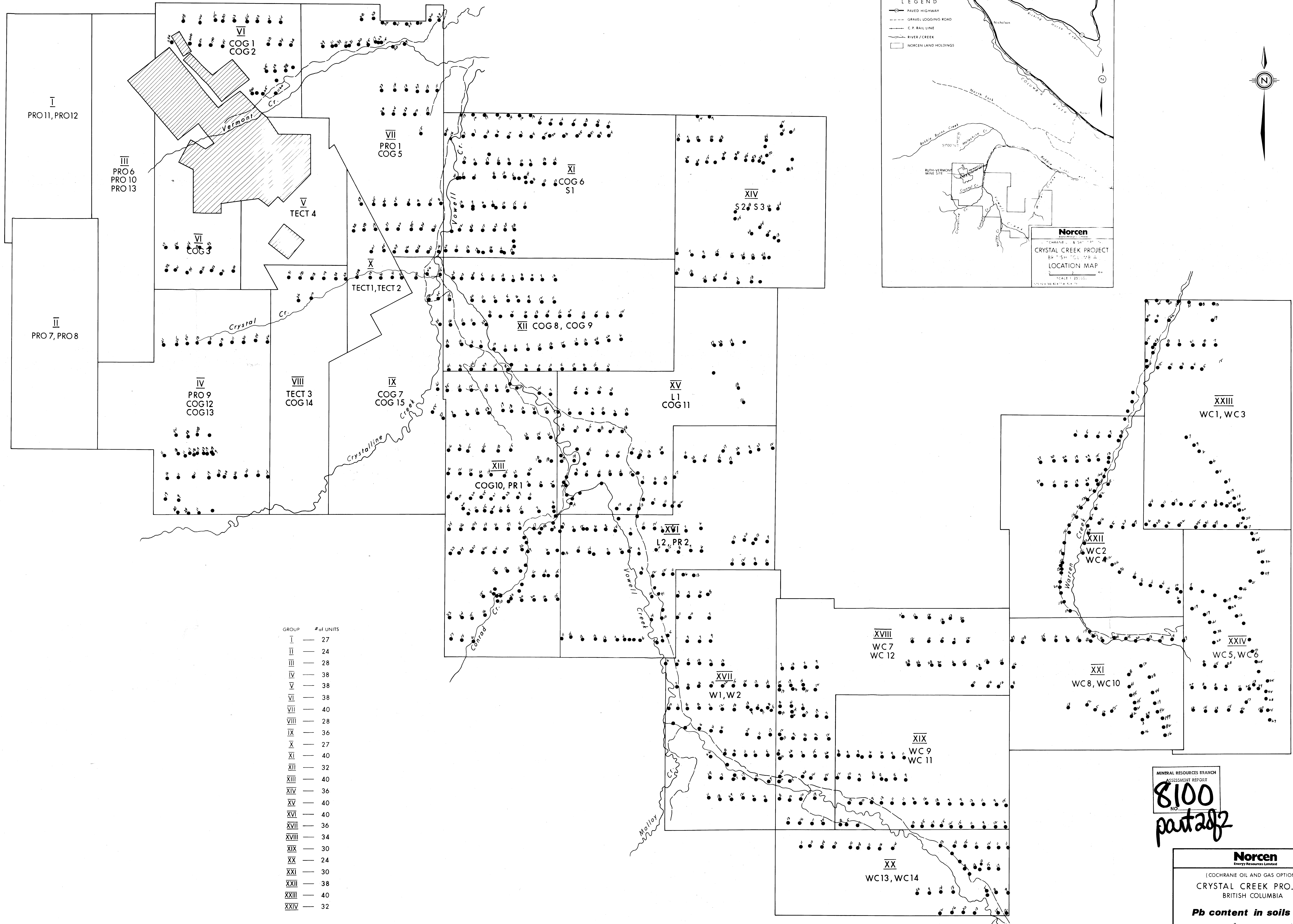
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IV	38
V	38
VI	38
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VIII	28
IX	36
X	27
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XII	32
XIII	40
XIV	36
XV	40
XVI	40
XVII	36
XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32



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**Norcen**  
Energy Resources Limited  
(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**Cu content in soils (ppm)**

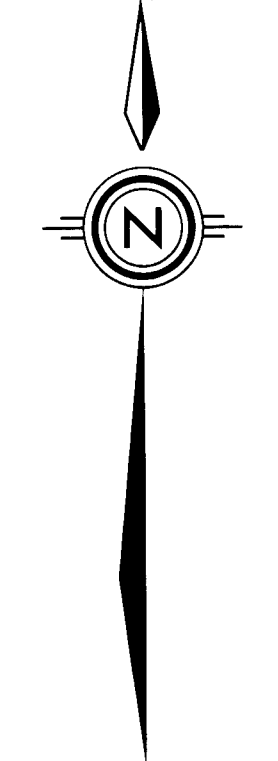
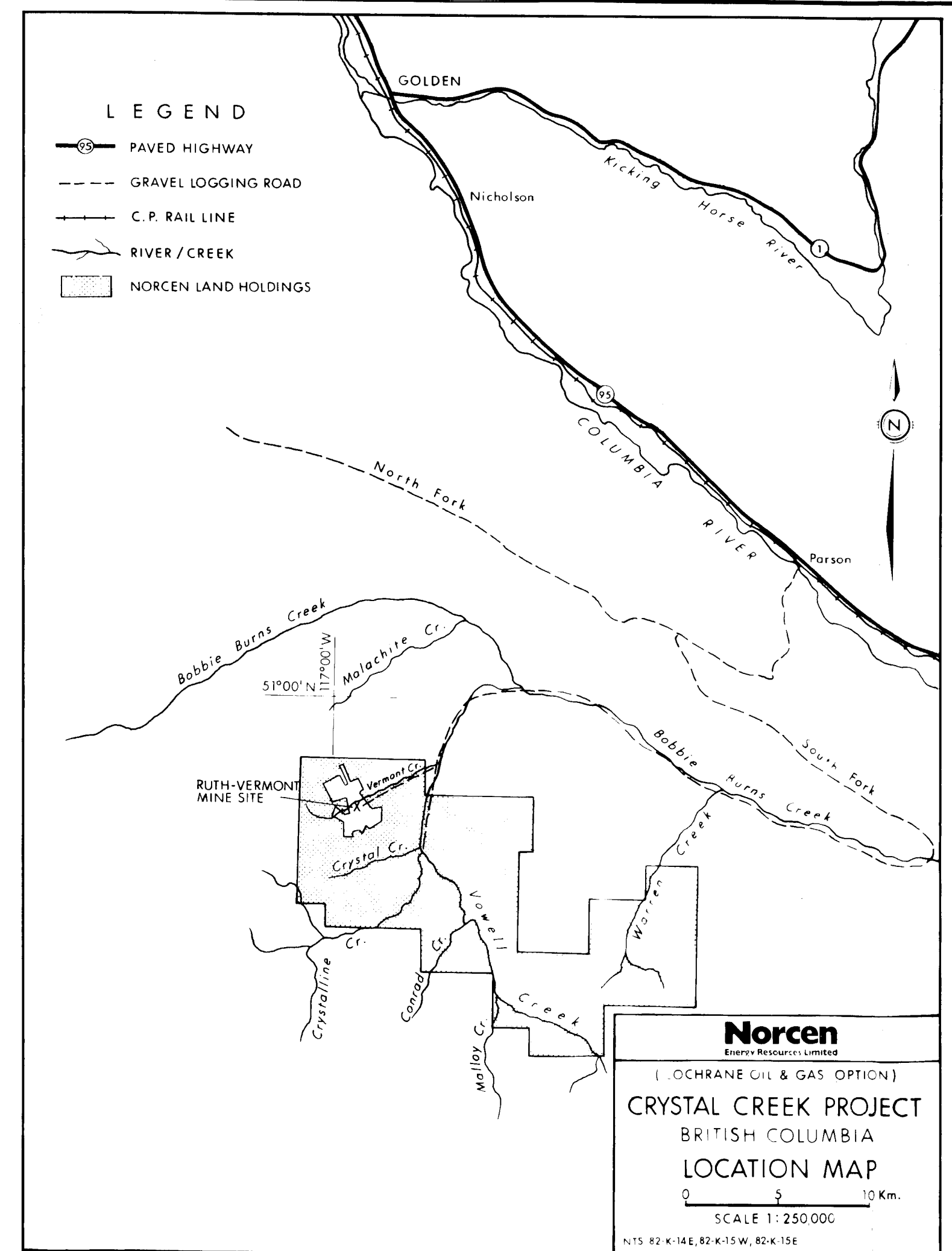
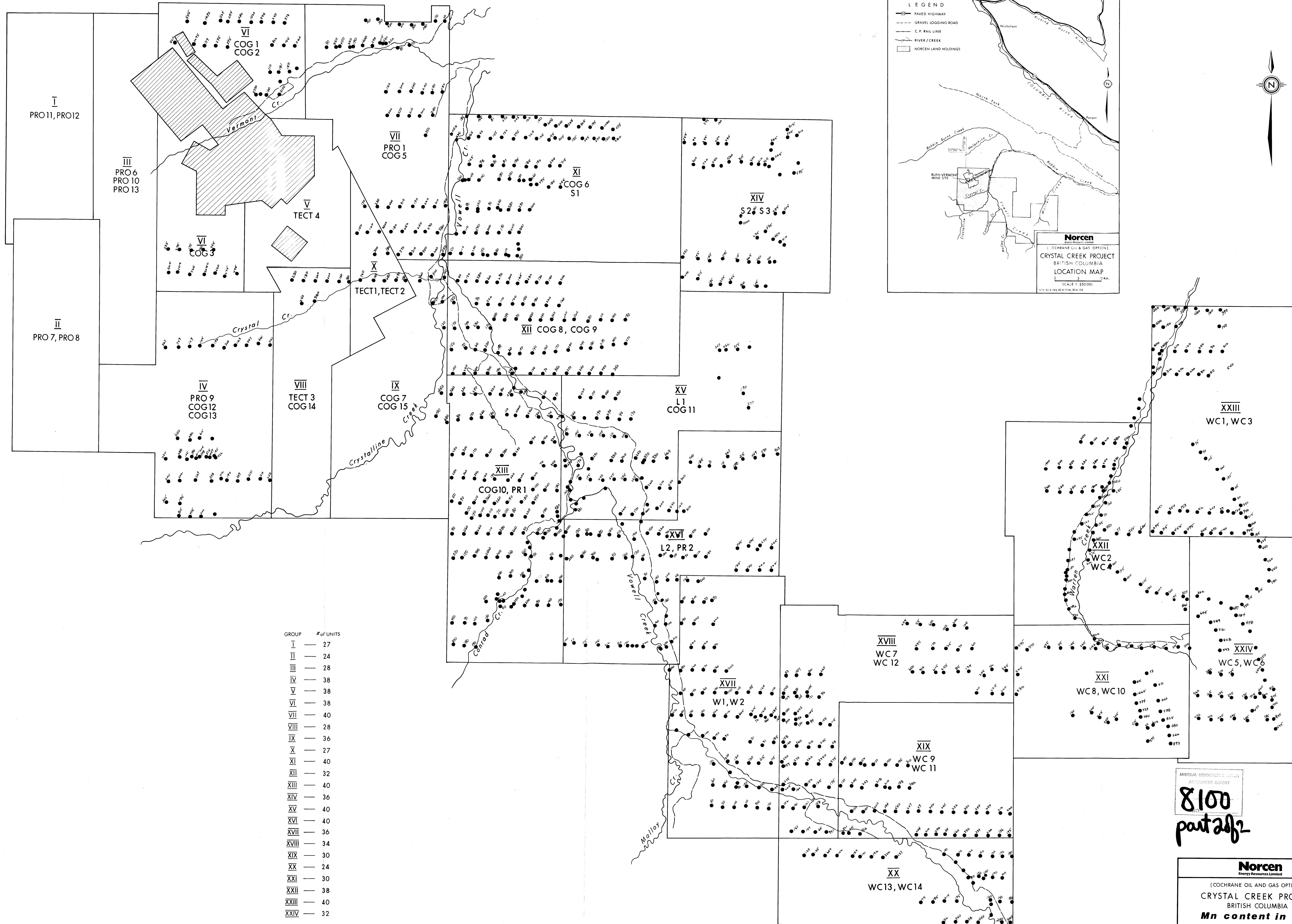
0 15 30  
Scale 1:20,000  
JUNE, 1980



GROUP	# of UNITS
I	27
II	24
III	28
IV	38
V	38
VI	38
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X	27
XI	40
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XIII	40
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XVI	40
XVII	36
XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32

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**Norcen**  
Energy Resources Limited  
(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**Pb content in soils (ppm)**  
Scale 1:20,000  
NTS 82-K-14E, 15W, 15E  
JUNE, 1980

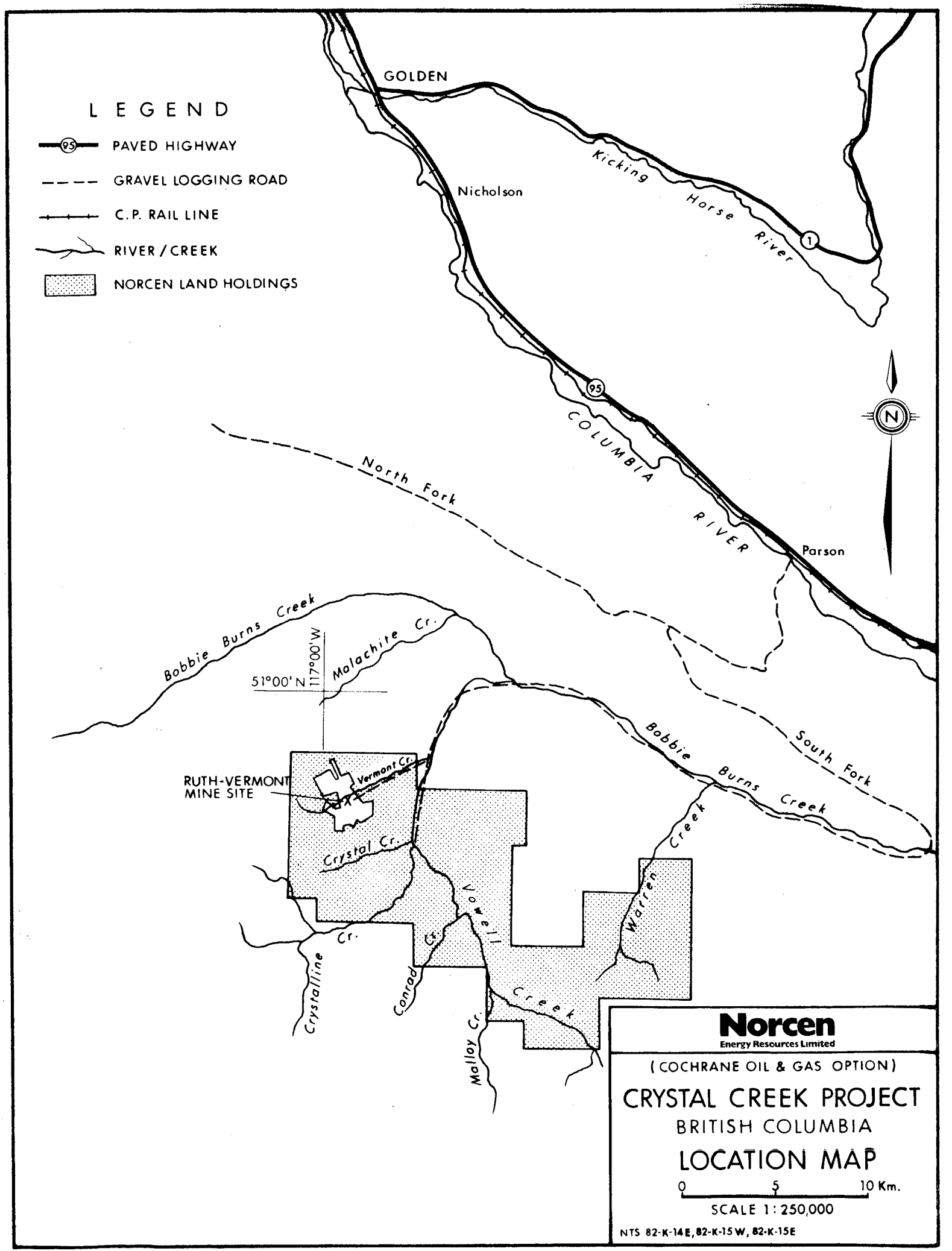
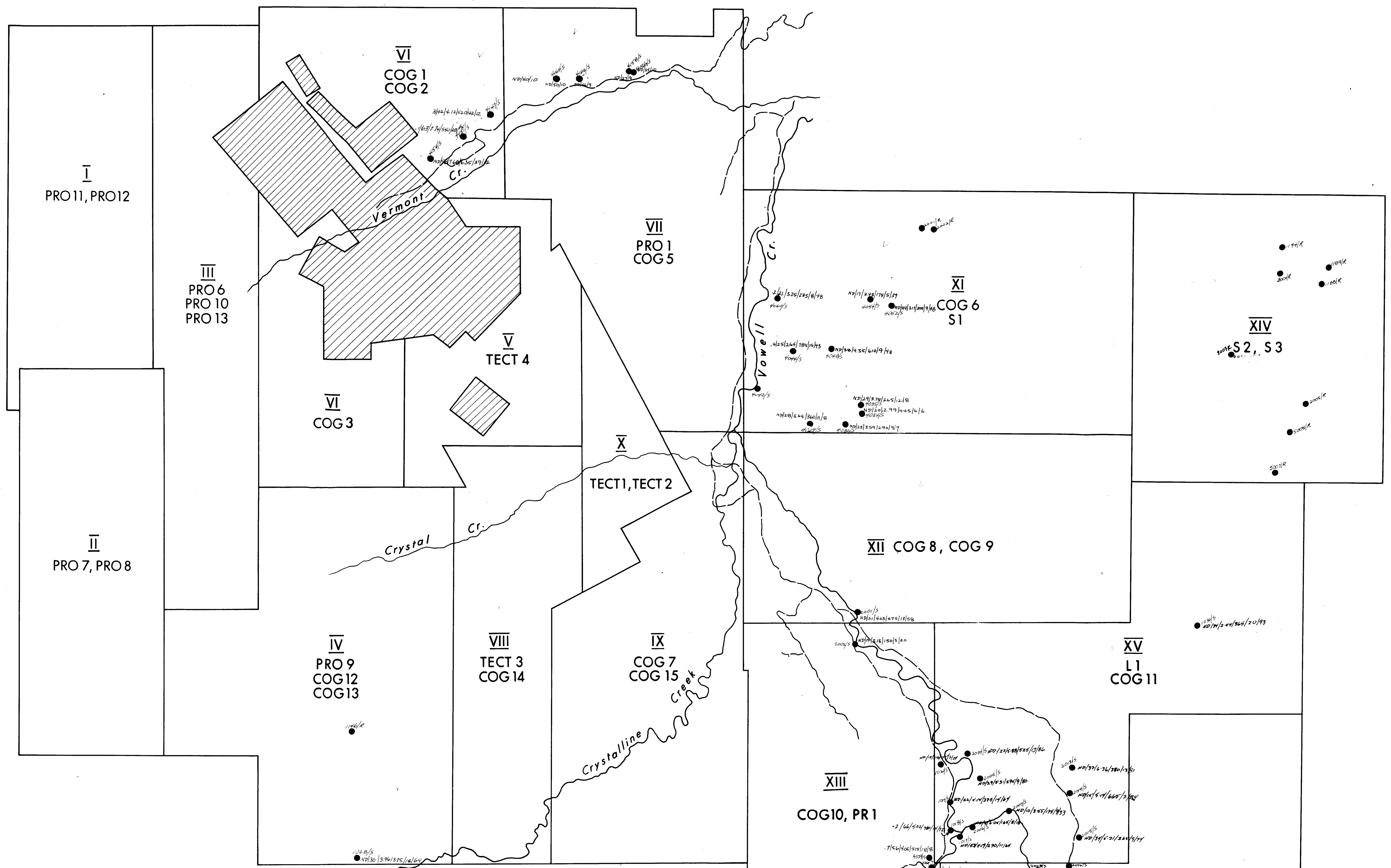


GROUP	# of UNITS
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II	24
III	28
IV	38
V	38
VI	38
VII	40
VIII	28
IX	36
X	27
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XII	32
XIII	40
XIV	36
XV	40
XVI	40
XVII	36
XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32

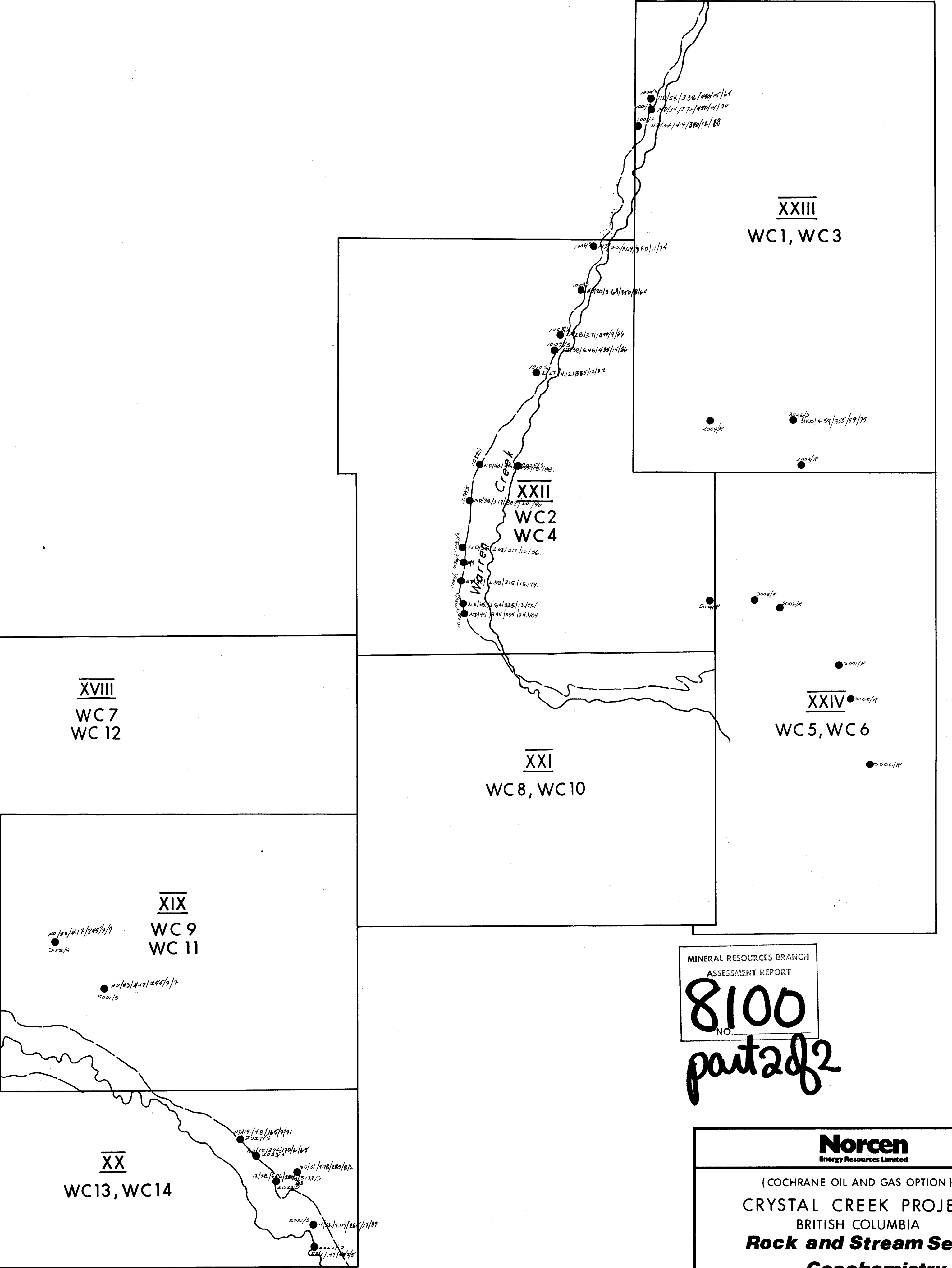
MINERAL RESOURCES & LAND  
ASSESSMENT REPORT  
**8100**  
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**Norcen**  
Energy Resources Limited  
(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**Mn content in soils**  
(ppm)

Scale 1:20,000  
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JUNE, 1980



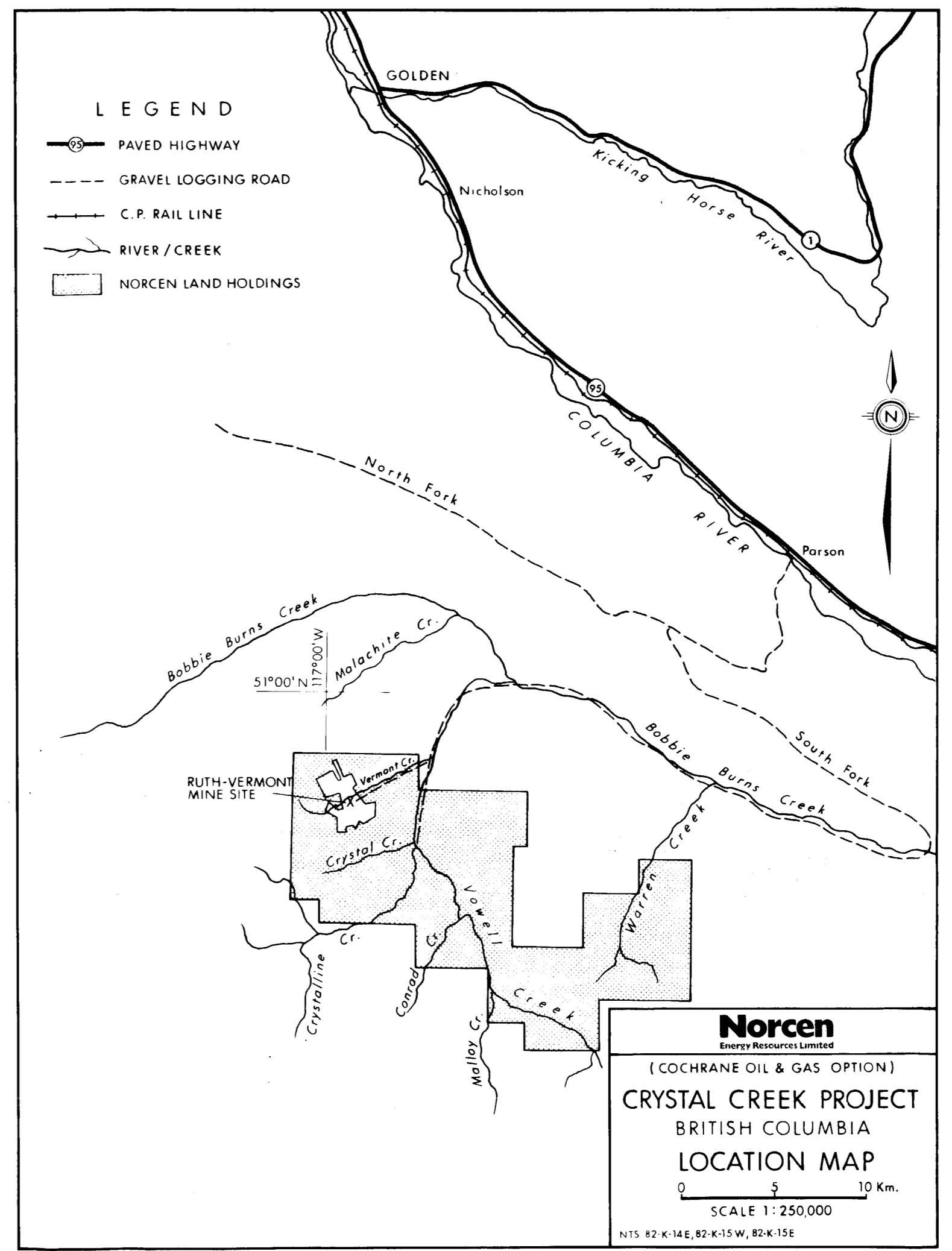
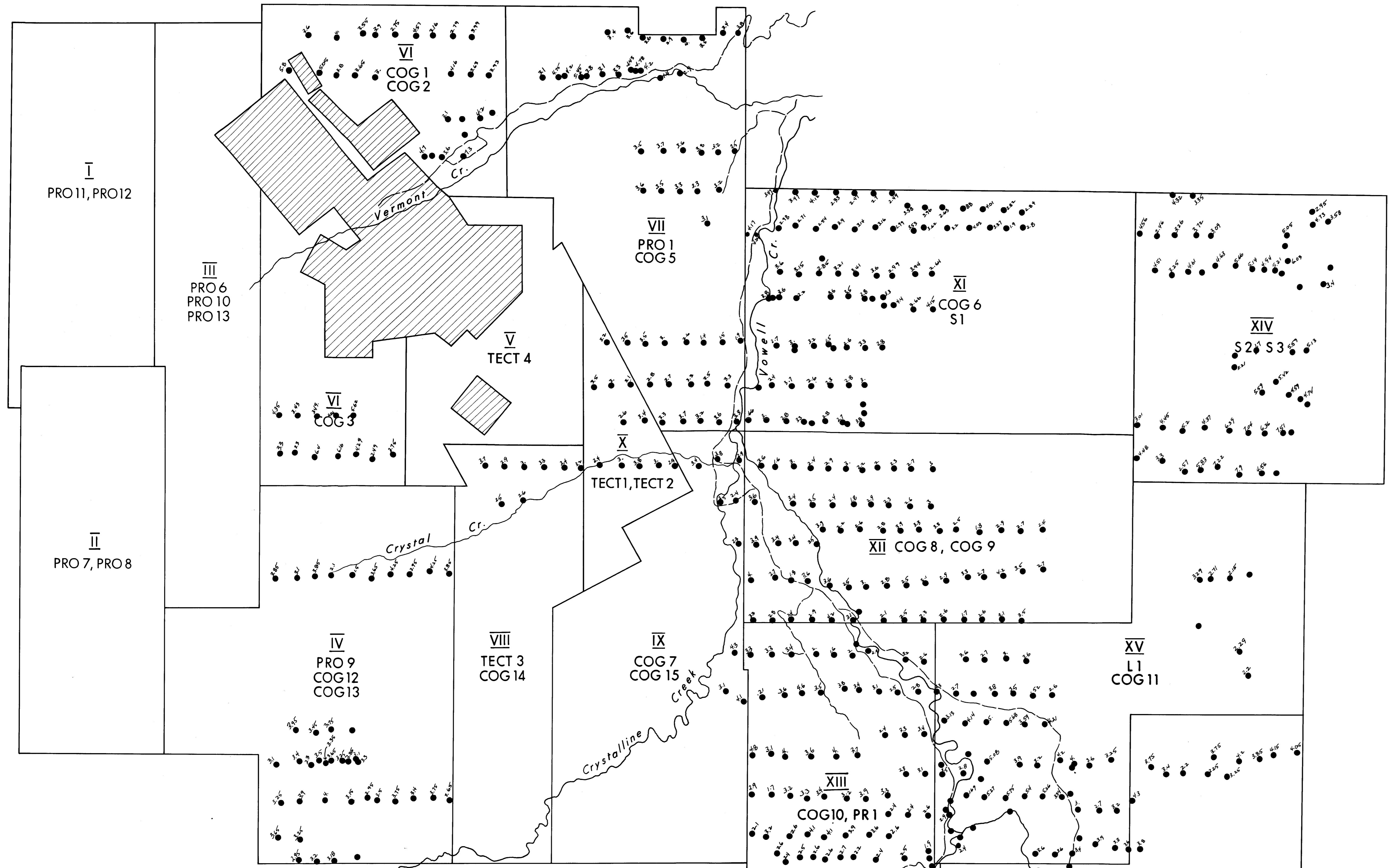
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V	38
VI	38
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VIII	28
IX	36
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XII	32
XIII	40
XIV	36
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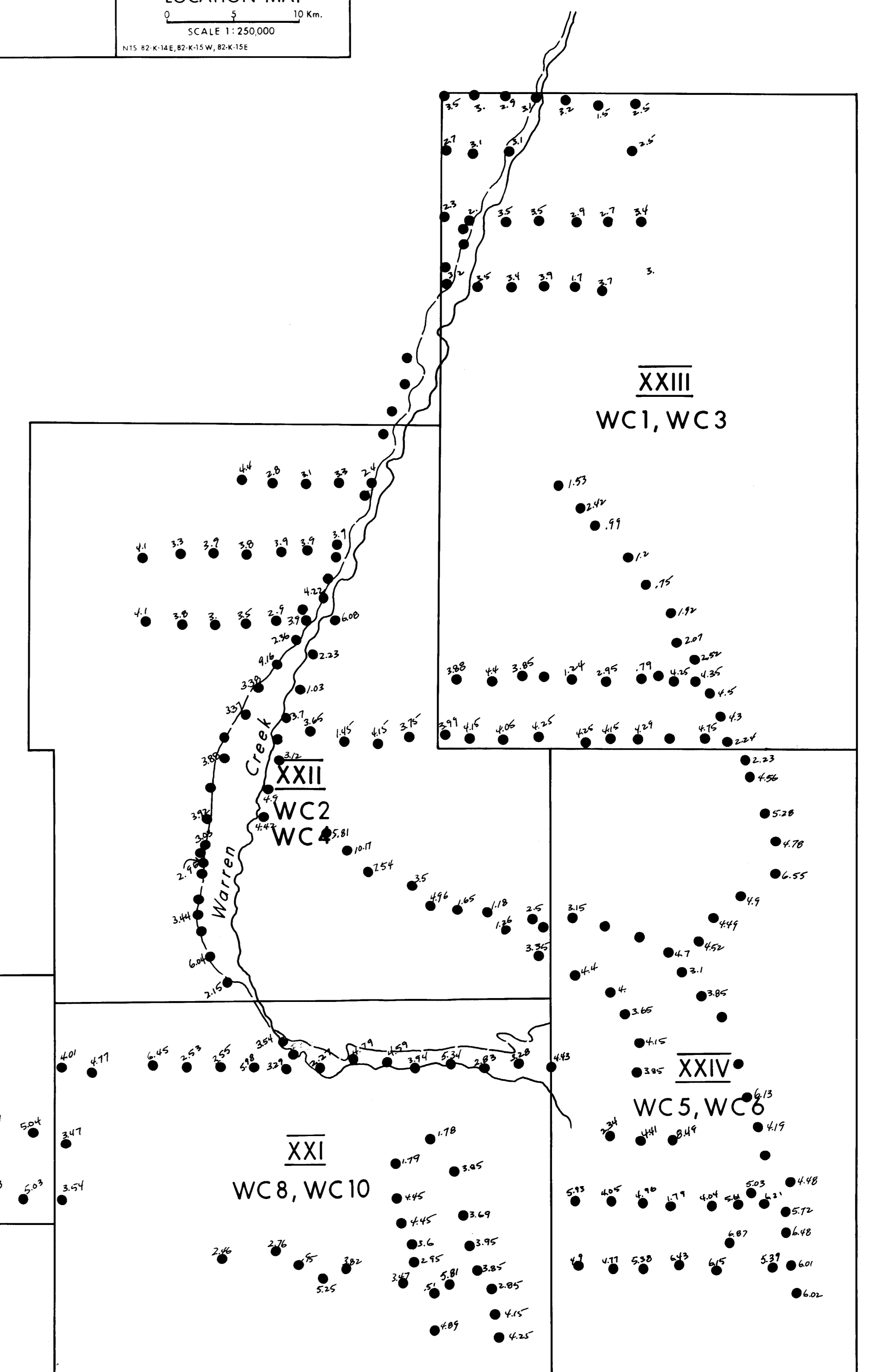
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
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**Norcen**  
Energy Resources Limited  
(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**Rock and Stream Sediment  
Geochemistry**

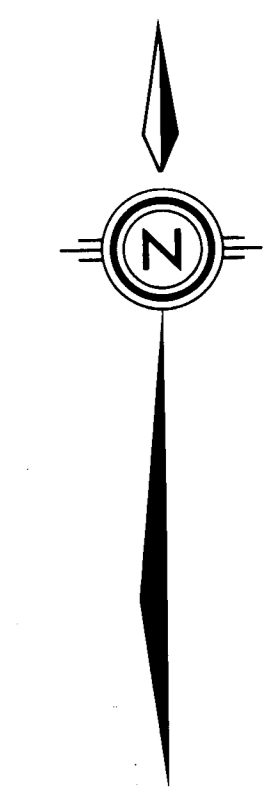
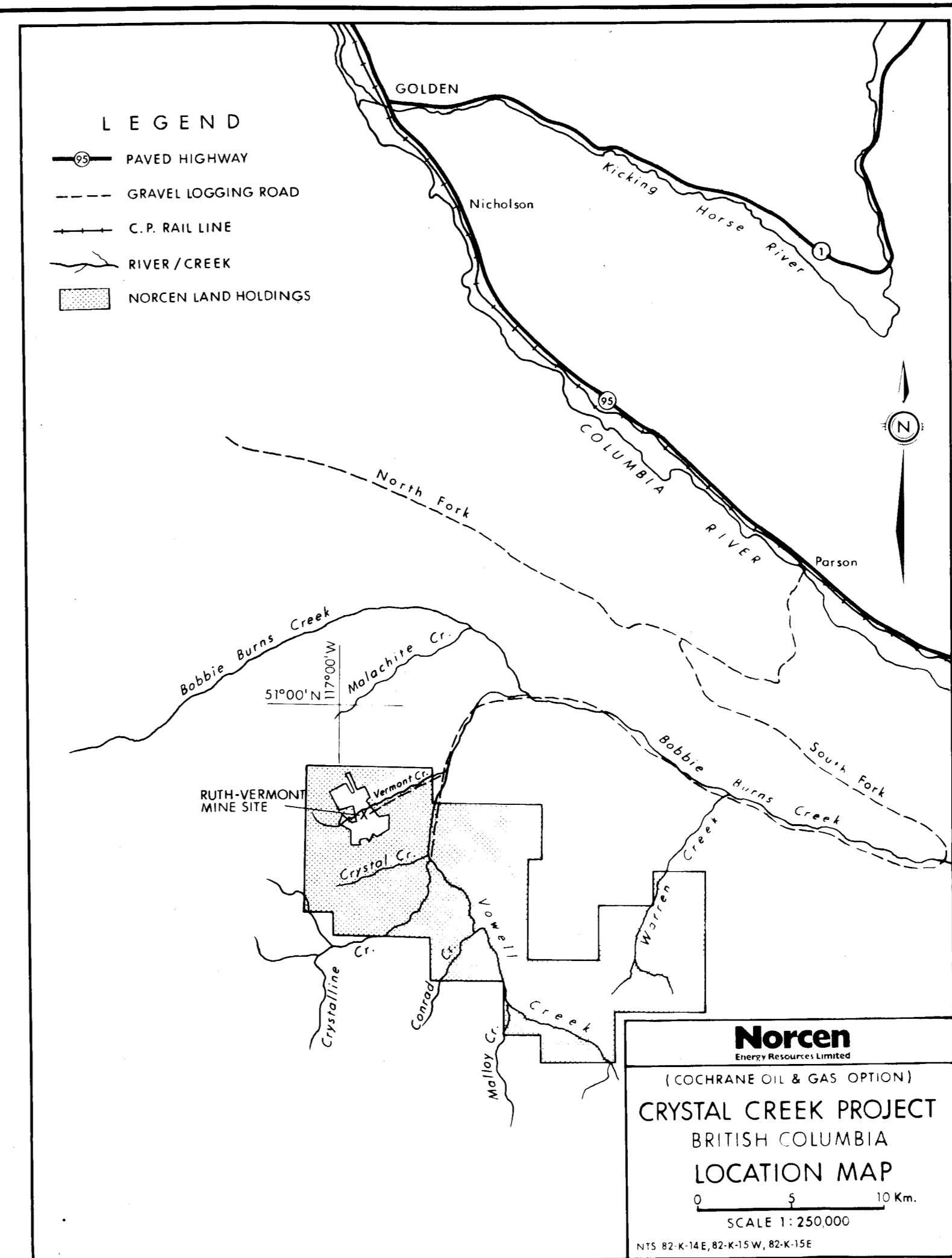
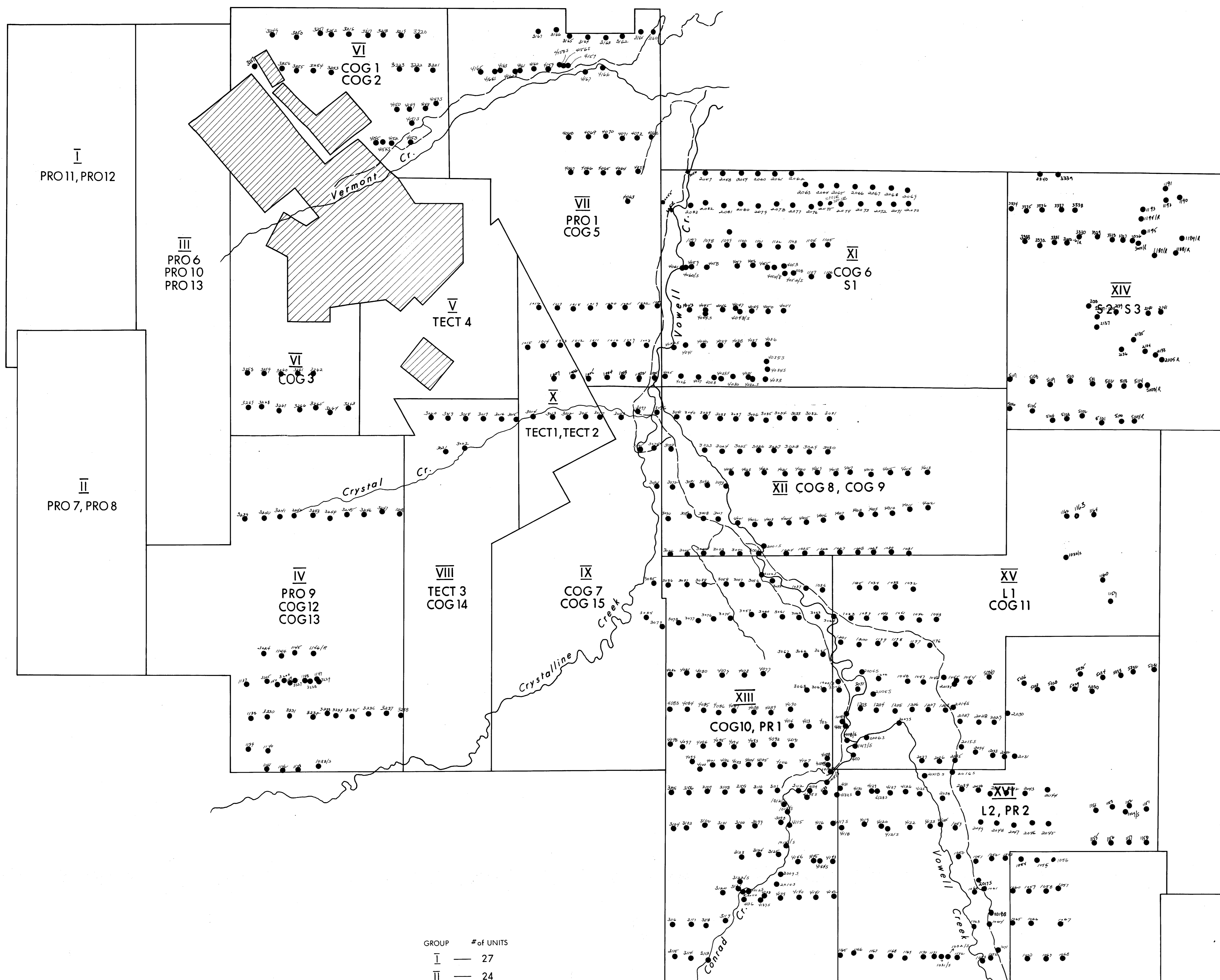
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JUNE, 1980



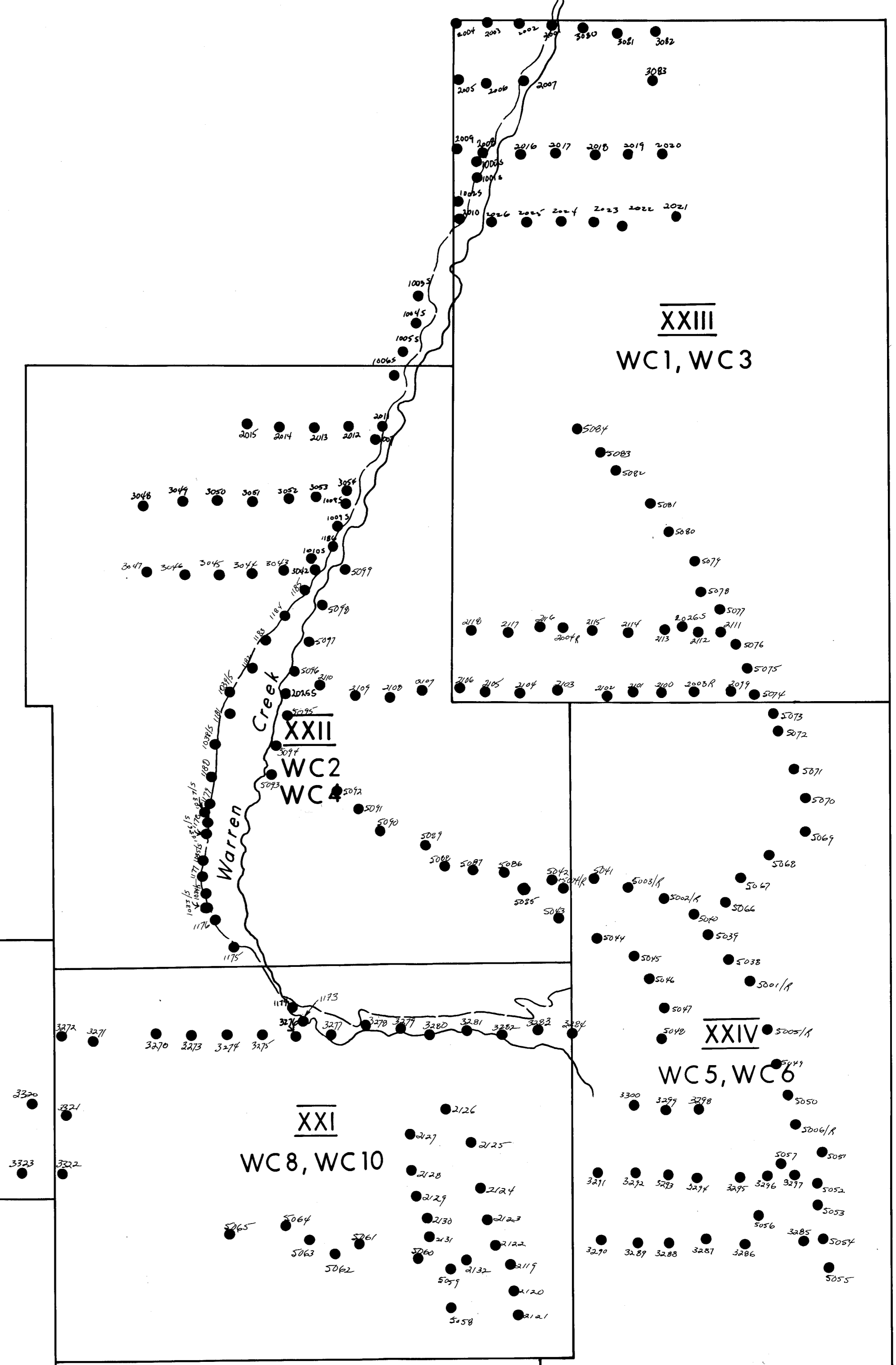
GROUP	# of UNITS
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III	28
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XIX	30
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MINERAL RESOURCES DIVISION  
ASSESSMENT REPORT  
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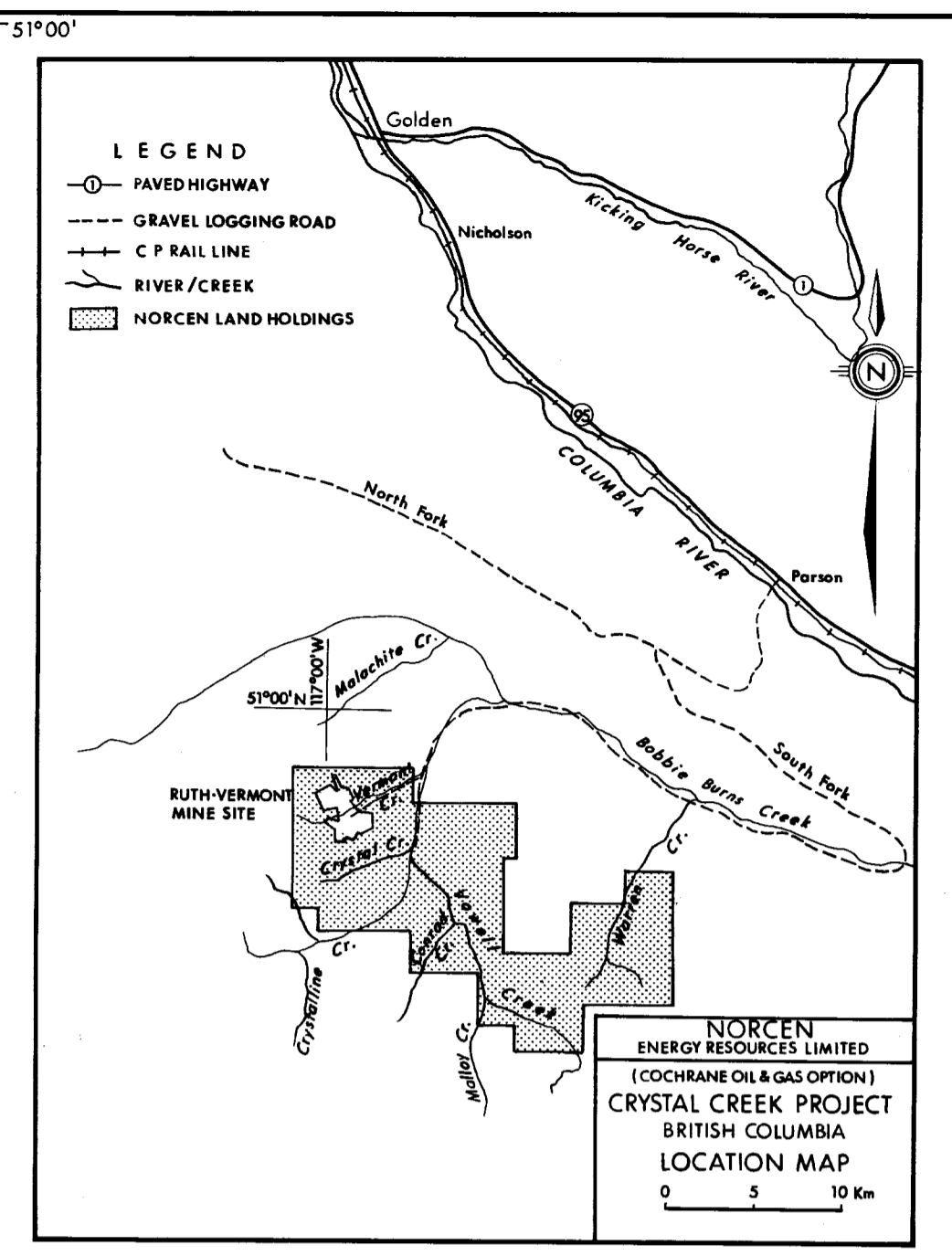
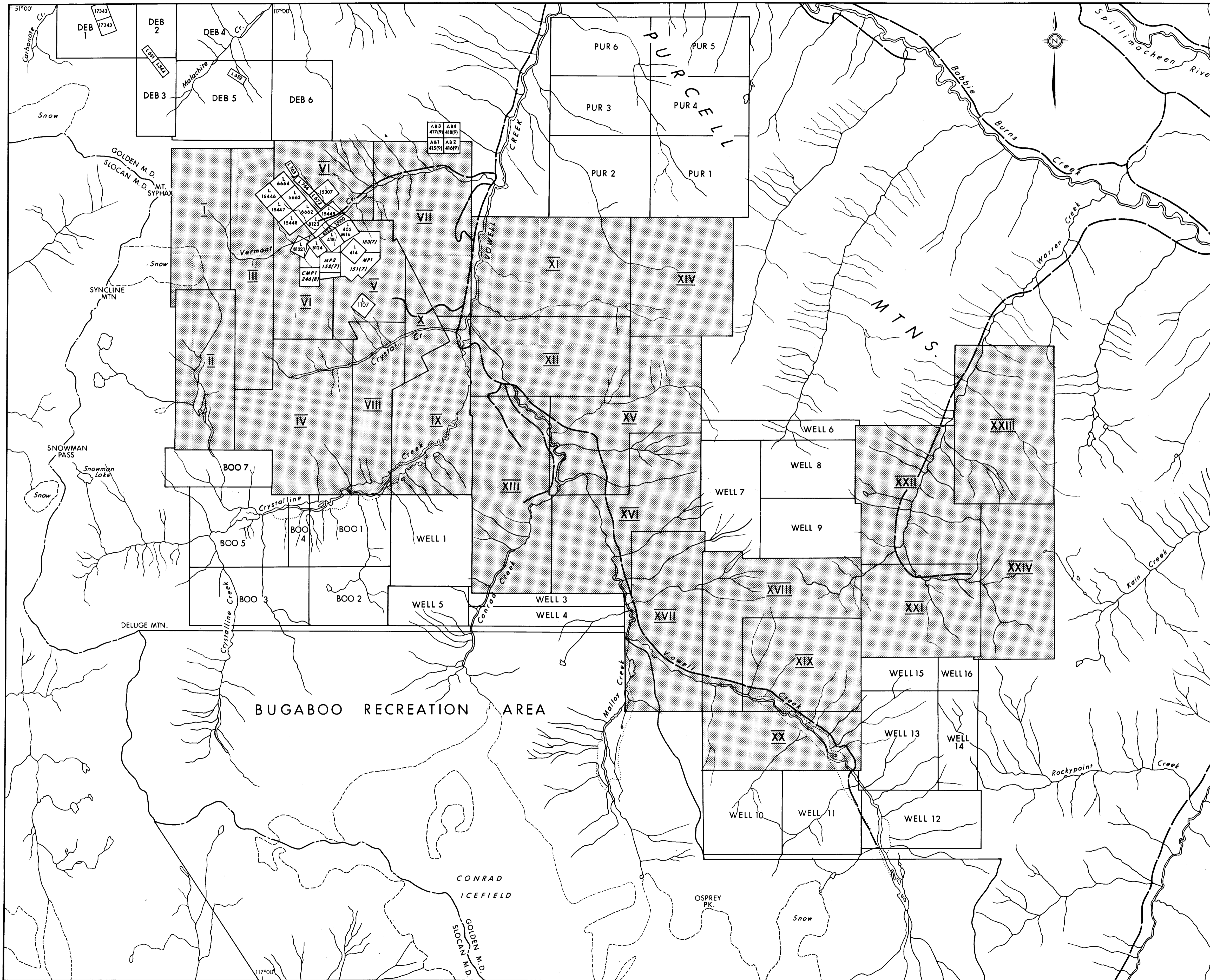
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V	38
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VIII	28
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XII	32
XIII	40
XIV	36
XV	40
XVI	40
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XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32



MINERAL RESOURCES BRANCH  
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**8100**  
 part 2 of 2

**Norcen**  
 Energy Resources Limited  
 (COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
 BRITISH COLUMBIA  
**Soil Sample Locations**

Scale 1:250,000  
 NTS 82-K14E, 15W, 15E  
 JUNE, 1980



GROUP	Number of units
I	27
II	24
III	37
IV	38
V	38
VI	38
VII	40
VIII	28
IX	36
X	27
XI	40
XII	32
XIII	40
XIV	36
XV	40
XVI	40
XVII	36
XVIII	34
XIX	30
XX	24
XXI	30
XXII	38
XXIII	40
XXIV	32
<b>TOTAL</b>	<b>825</b>

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8100**  
NO.

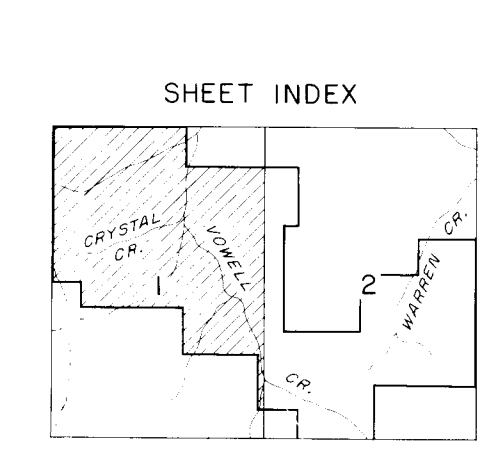
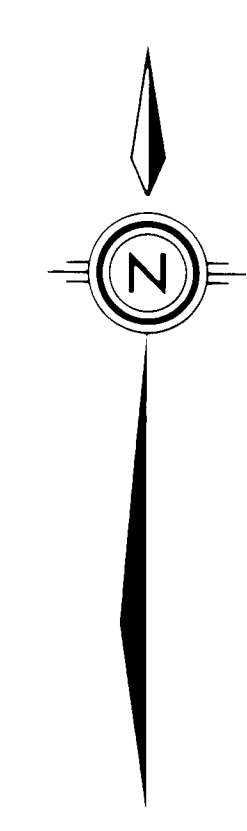
*part 2 of 2*

NO. 8100  
NO. 825  
NORCEN LAND HOLDINGS  
TRUCK ROAD

**Norcen**  
Energy Resources Limited

(COCHRANE OIL AND GAS OPTION)  
**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA  
**LAND HOLDINGS MAP**





**8100 part 282**  
**NORCEN**  
 ENERGY RESOURCES LIMITED

**CRYSTAL CREEK PROJECT**  
 BRITISH COLUMBIA

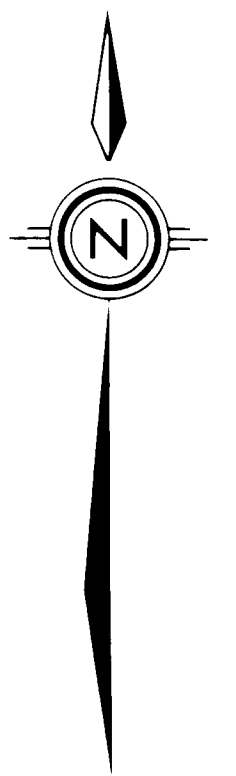
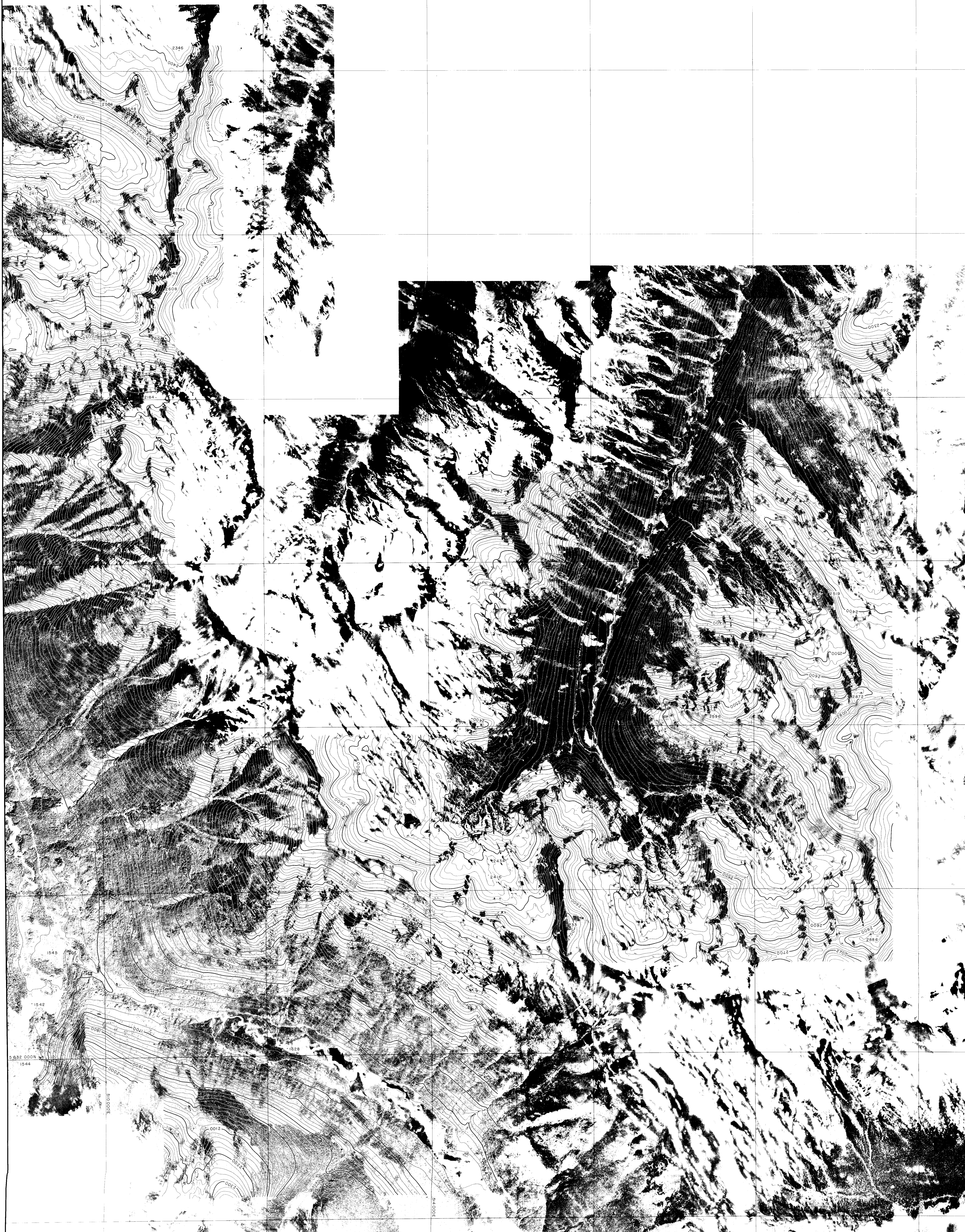
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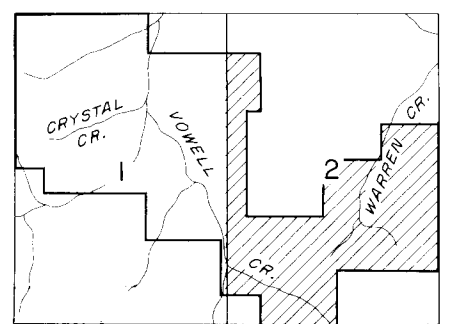
**NORTH WEST SURVEY CORPORATION INTERNATIONAL LTD.**

DRAWN BY R.A. DATE MAY 1980 SHEET 1 OF 2  
 CHECKED BY V.V. JOB NO. 80-142





SHEET INDEX



**8100 part 2 of 2**

**NORCEN**  
ENERGY RESOURCES LIMITED

**CRYSTAL CREEK PROJECT**  
BRITISH COLUMBIA

SCALE  
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METRES METRES  
1 : 20 000  
CONTOUR INTERVAL 20 METRES

AERIAL PHOTOGRAPHY BY GOVT. OF CANADA, JULY 1976 CONTROL BY N.T.S. 82K, 1:250,000

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DRAWN BY R.A.	DATE MAY 1980	SHEET 2 OF 2
CHECKED BY V.Y.	JOB NO. 80-142	