

MAR 20110017: PEMBINA

Pembina - A report on gold exploration in unconsolidated sediments along the Brazeau River in the Rocky Mountain foothills

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PART B

AND

PART C

ASSESSMENT REPORT

**9307080683, 9307080684, 9307080685, 9307080687, 9307080688,
9307080689, 9307080690, 9307080691, 9307080697, 9307080698, and
9307080775**

**PEMBINA PROJECT
NTS 83B, 83C, 83F, 83G**

**For
Ivey Canadian Exploration Ltd.**

**Submitted by
James Hynes, P.Eng**

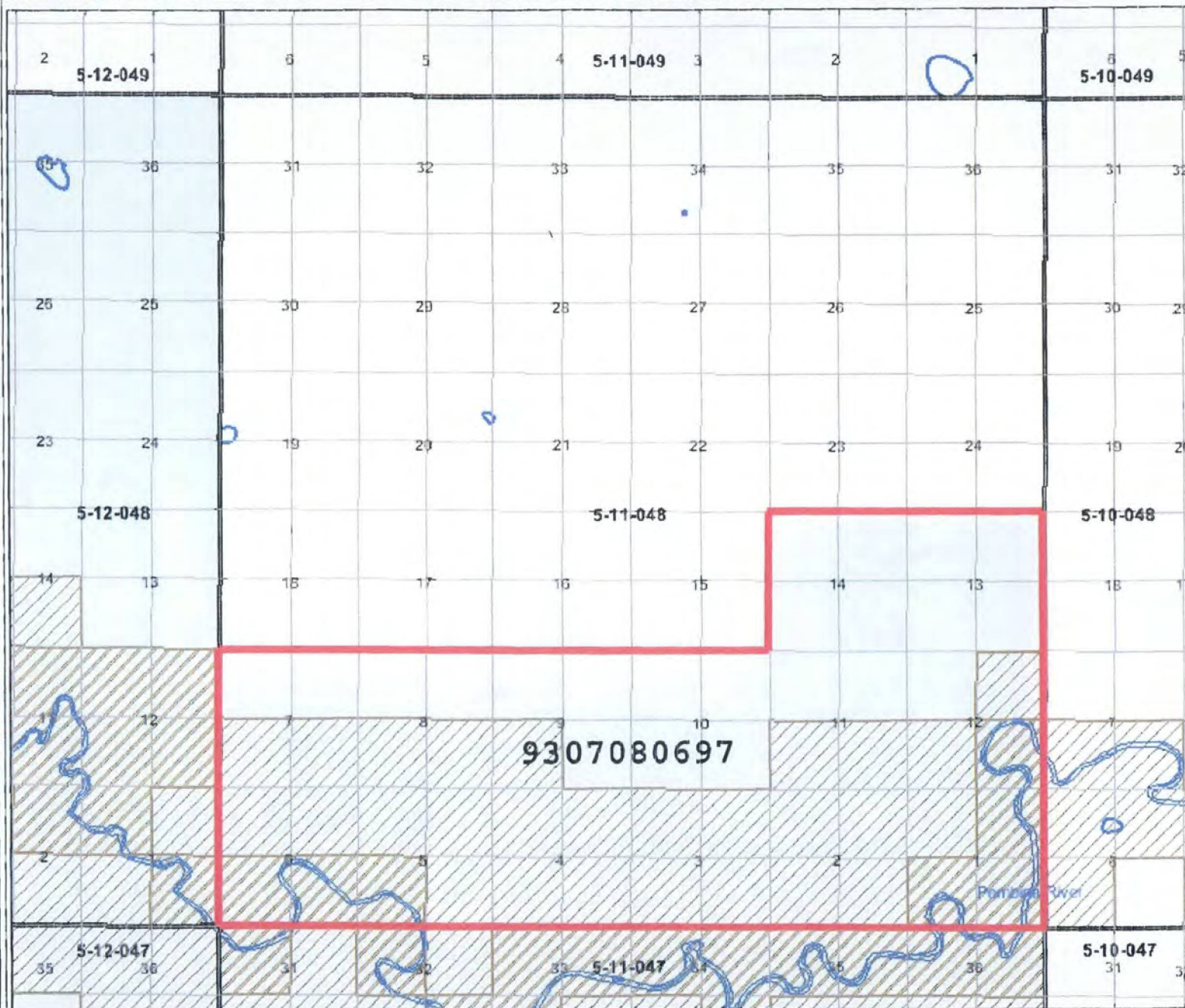
October 29th, 2011

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MAPS OF CURRENT PERMITS AND BOUNDARIES

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



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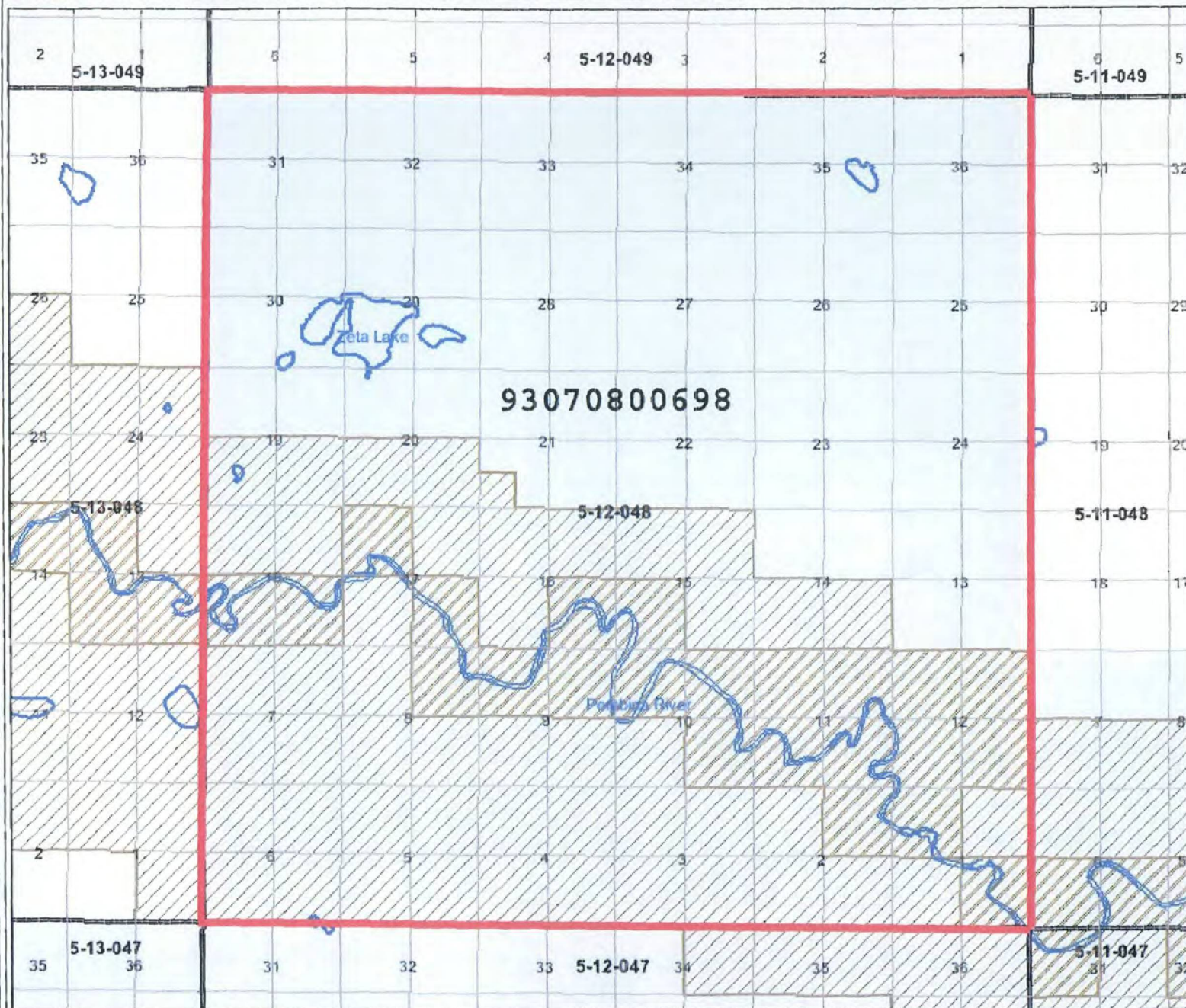
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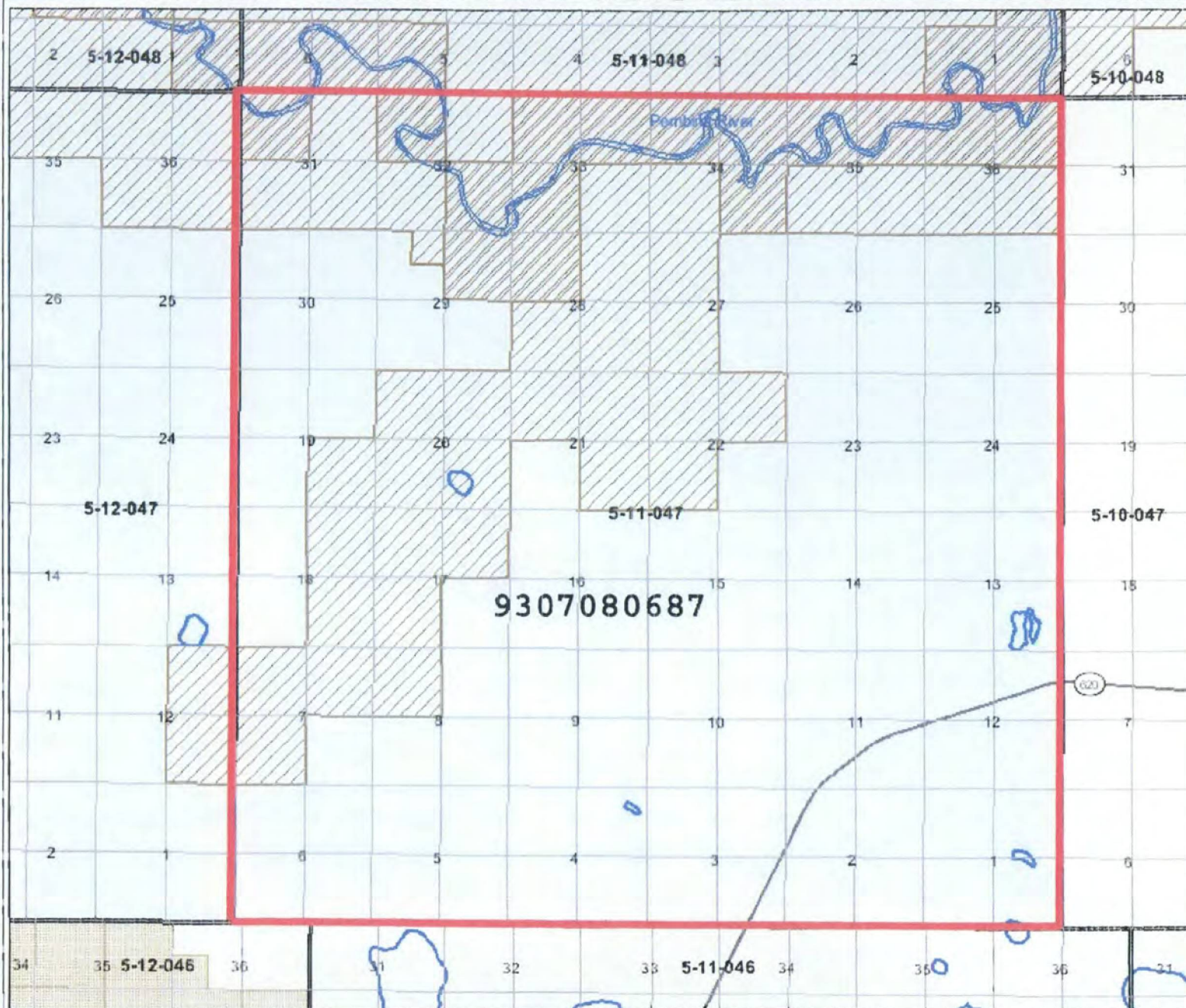
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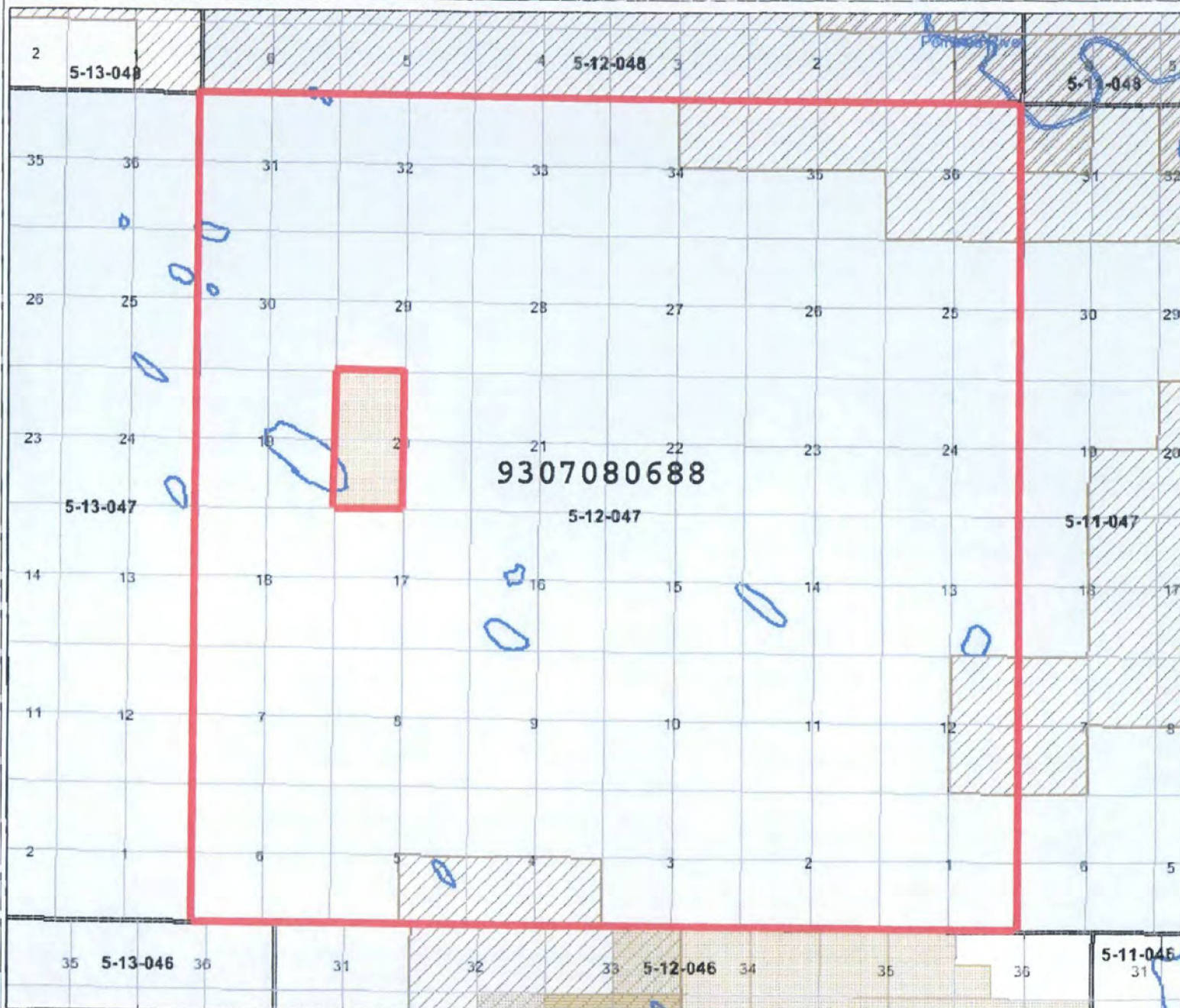
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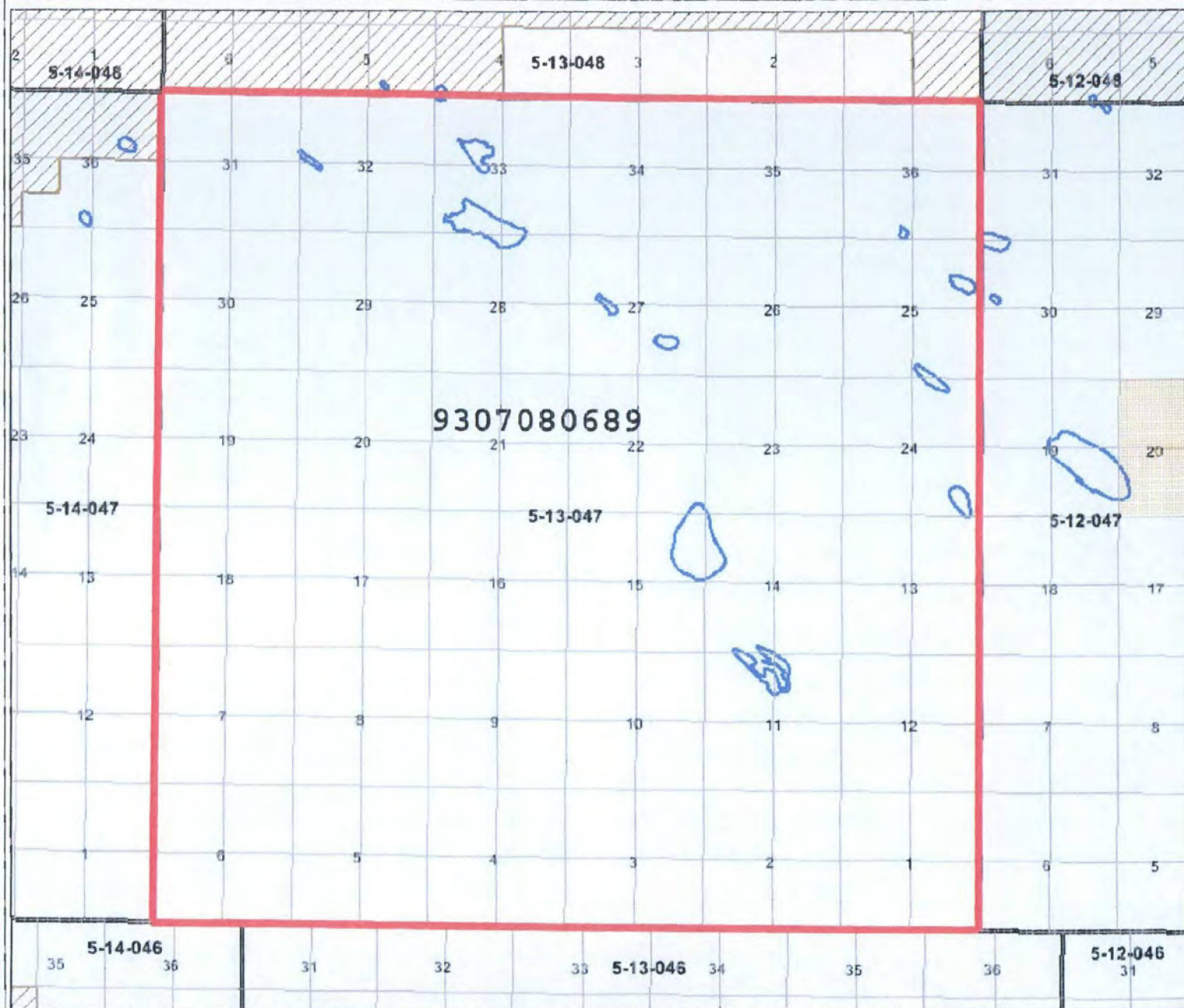
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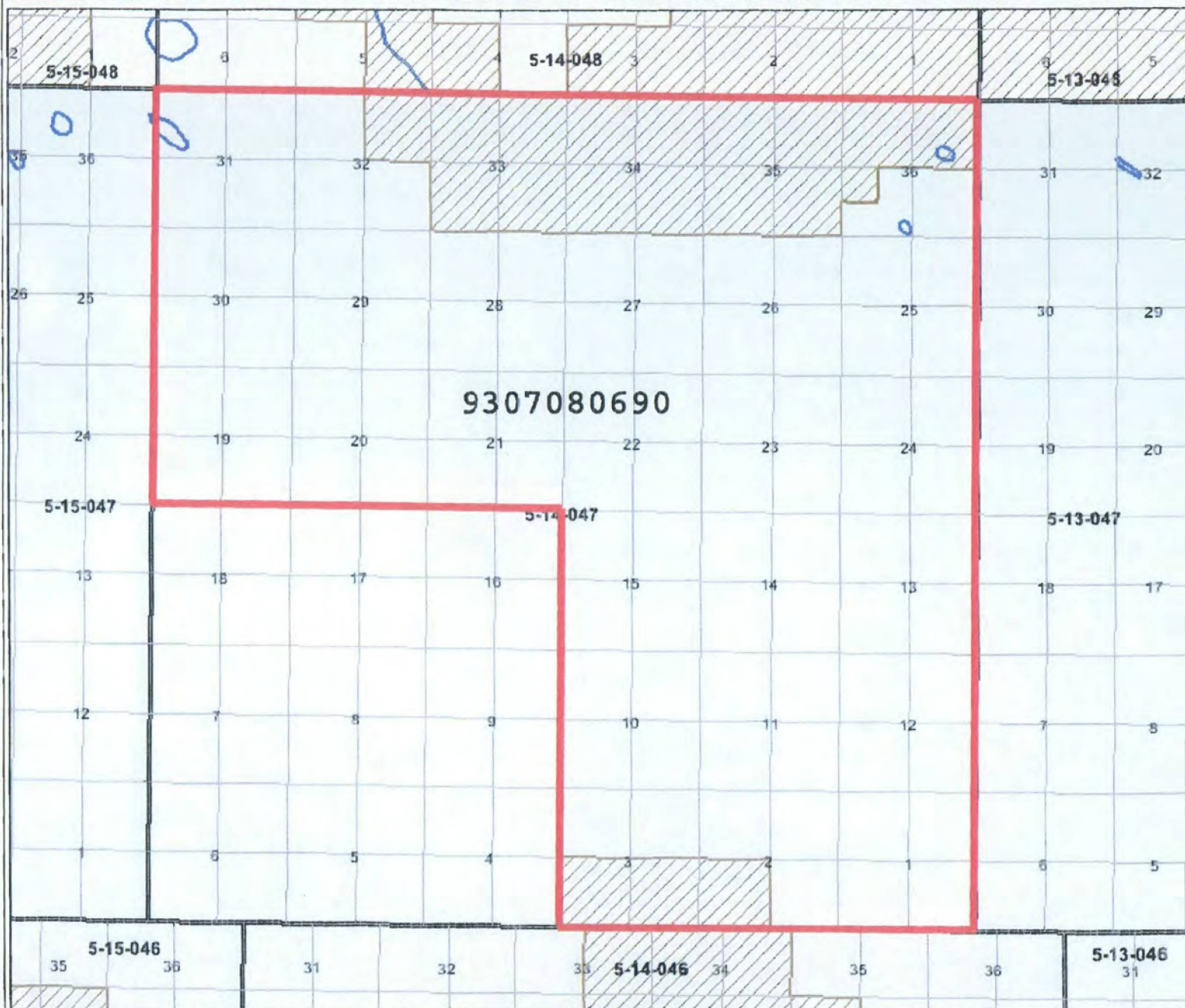
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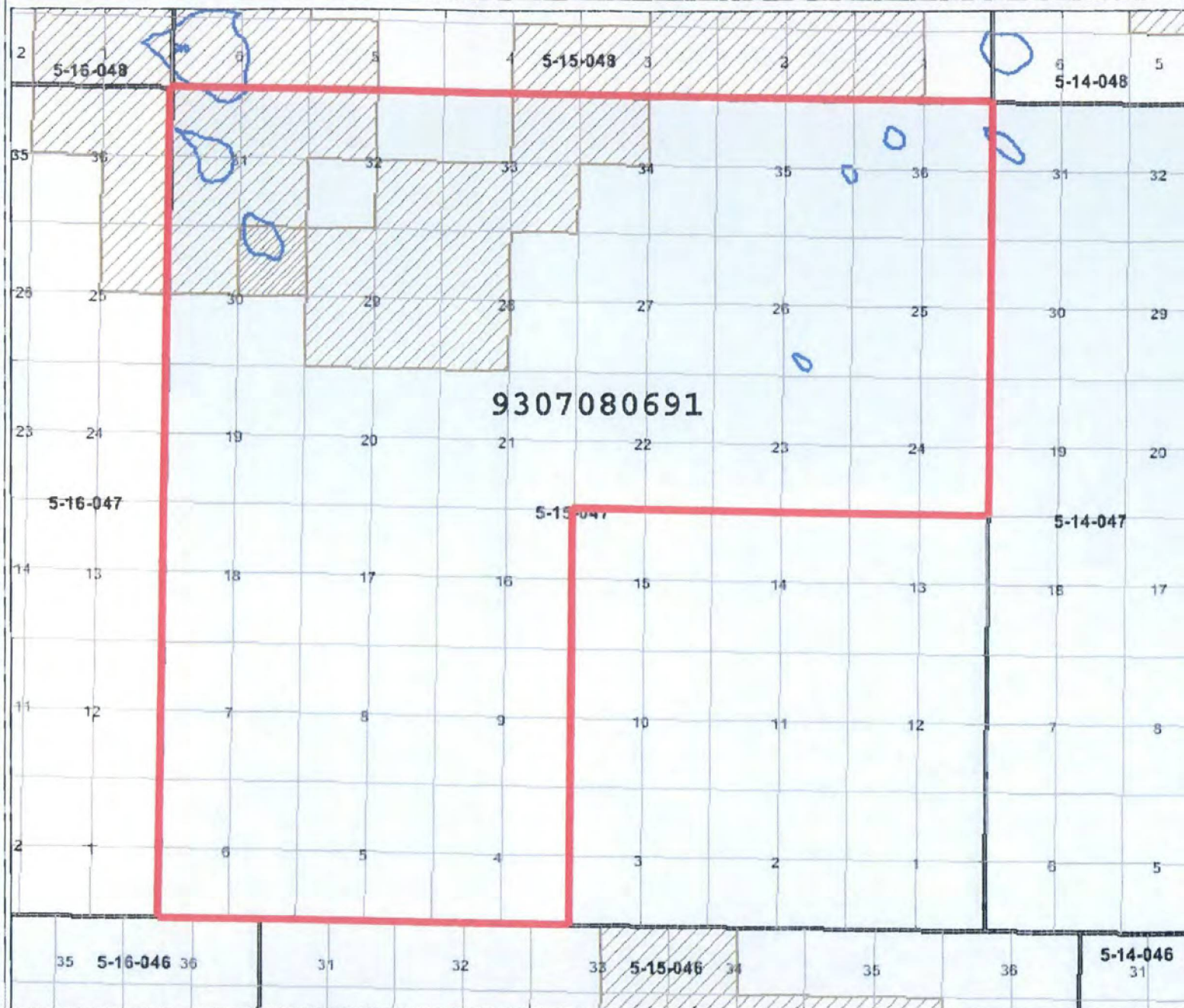
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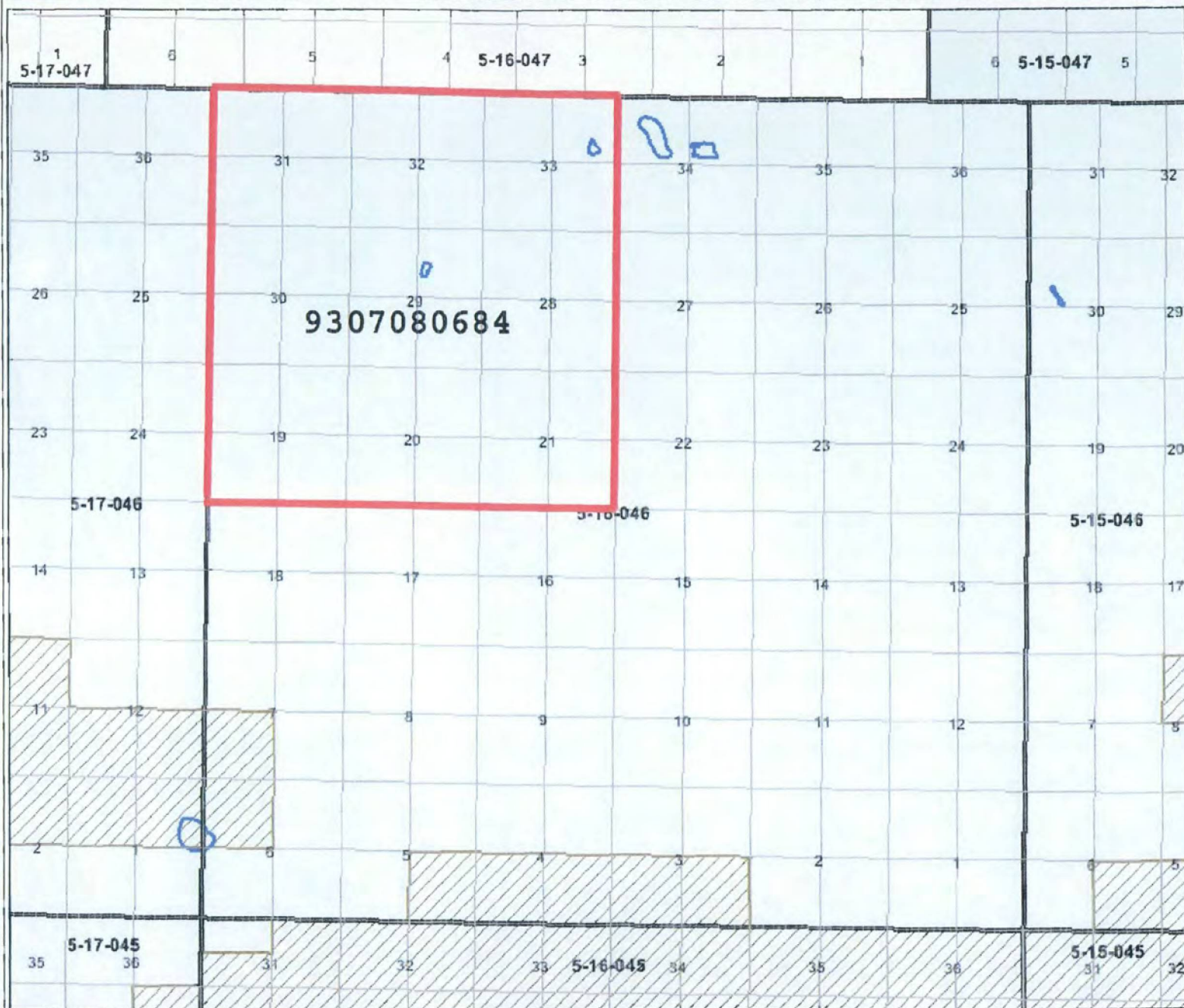
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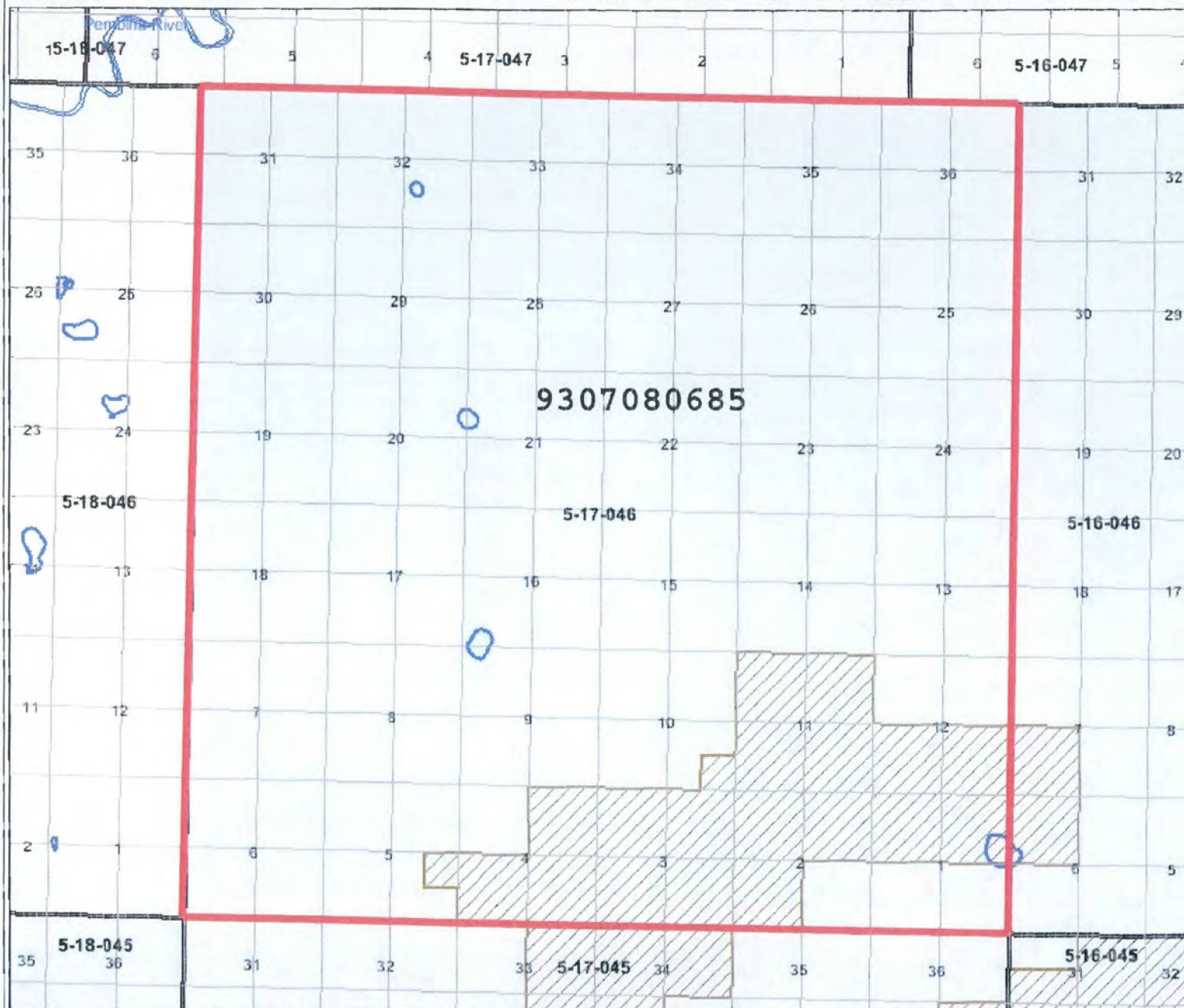
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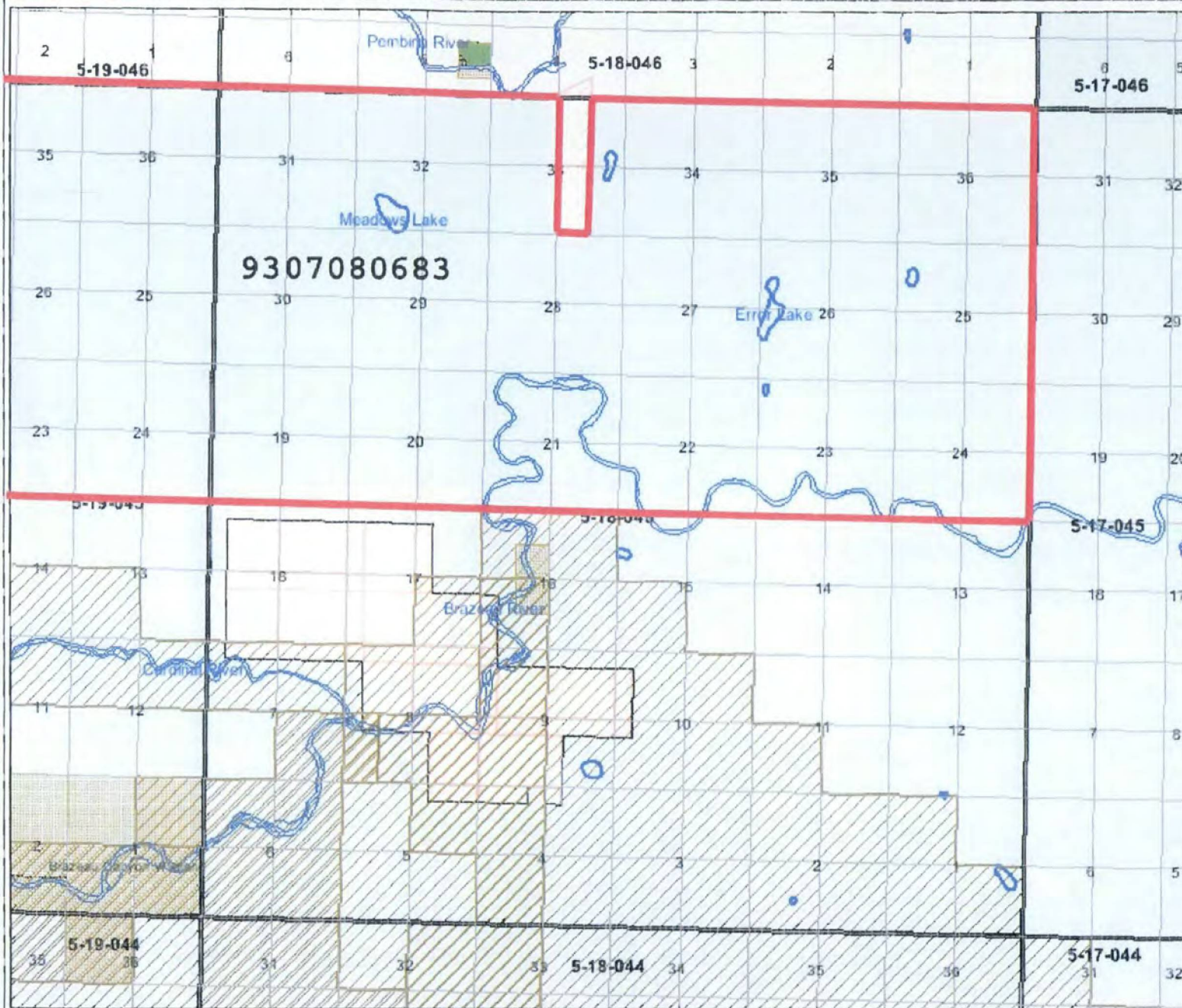
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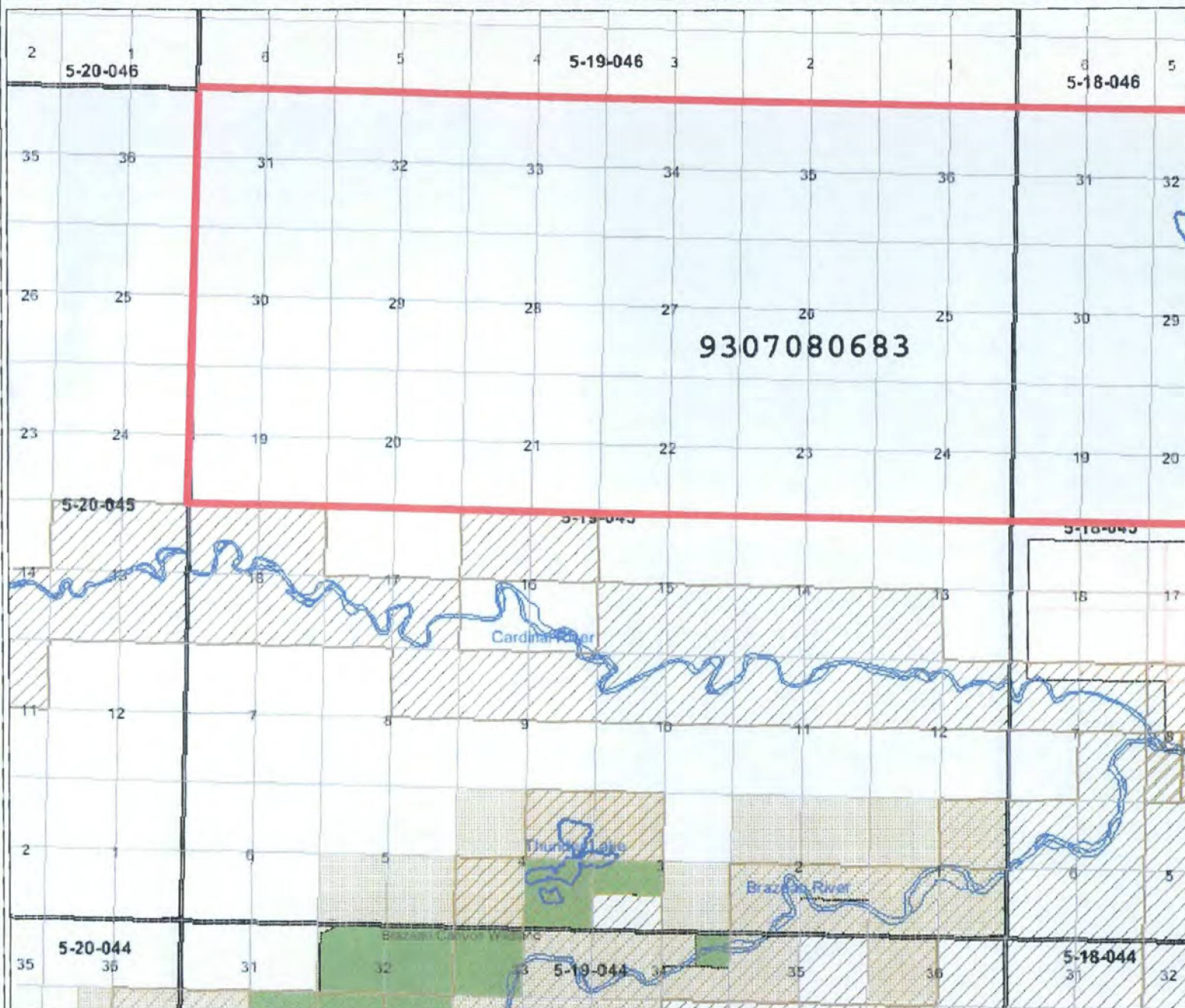
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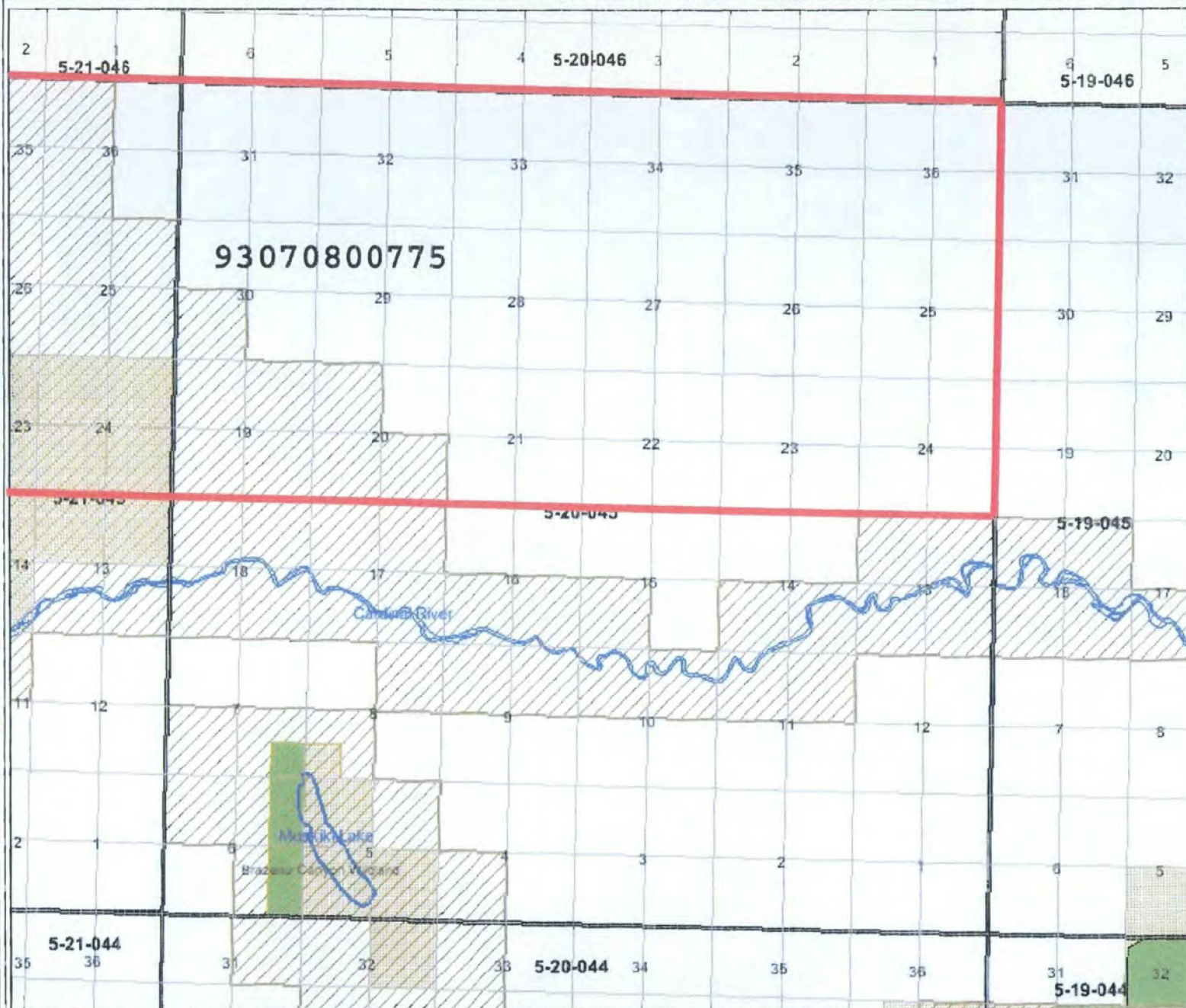
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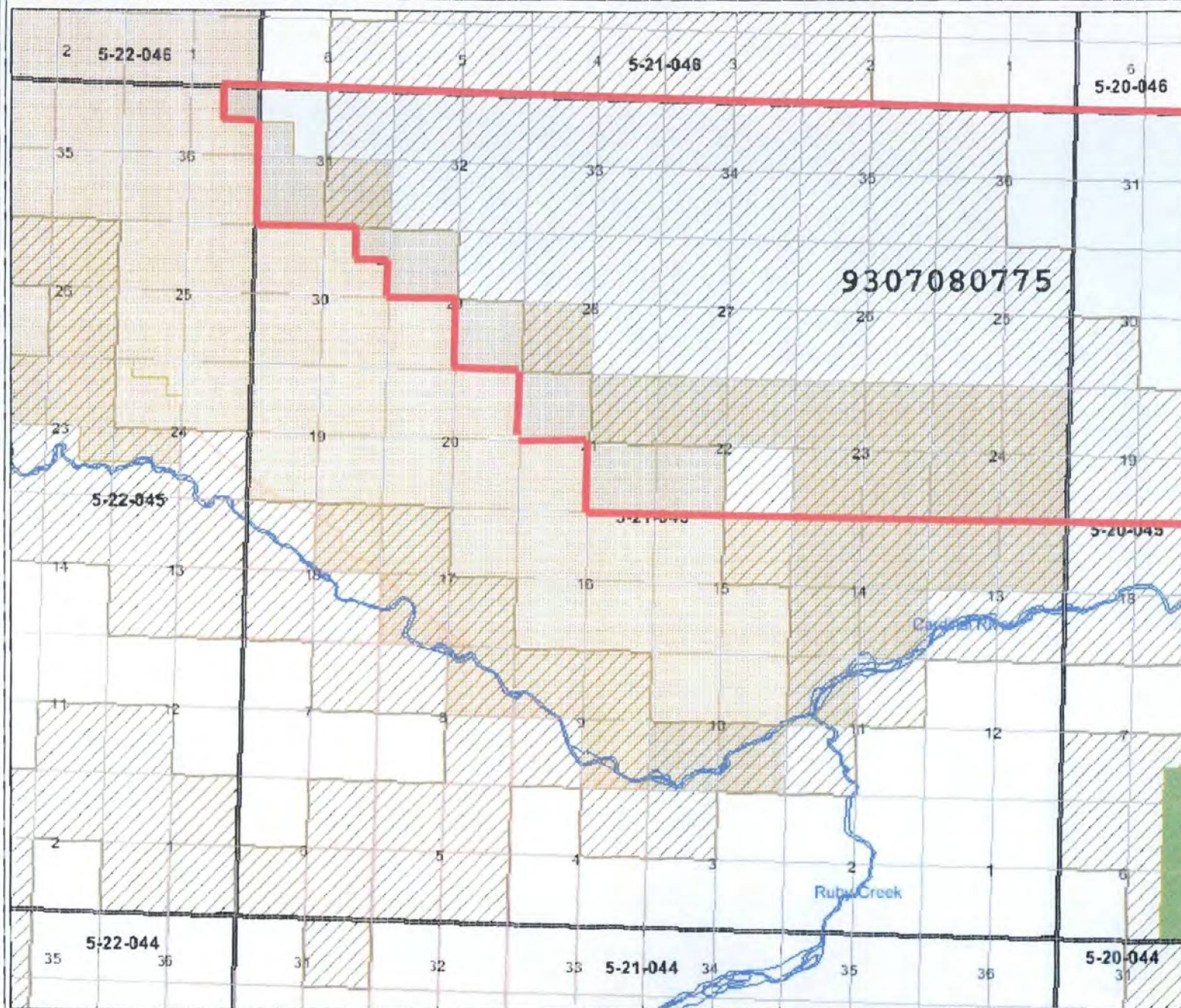
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PART B – TECHNICAL REPORT

SUMMARY

In the fall of 2007, Ivey Canadian Exploration conducted the first phase of an exploration program on the 'Pembina Project' block of permits. The blocks are located within NTS 83B, 83C, 83F, and 83G. After relinquishing a portion of the project area in 2009, additional work has been done within the project boundaries. The Pembina Project blocks are covered under Metallic and Industrial Mineral Permit Numbers 9307080683, 9307080684, 9307080685, 9307080687, 9307080688, 9307080689, 9307080690, 9307080691, 9307080697, 9307080698, and 9307080775 inclusively.

The purpose of this program was to identify if any anomalous additional gold values might exist within the Pembina and Brazeau River drainage basins. 31 locations were drilled of which 12 samples were obtained and sent to the Innovative Precious Metals Technologies and EcoTech. Anomalous gold was identified in some of the samples, warranting further work be conducted within this area.

INTRODUCTION

In the fall of 2007, Ivey Canadian Exploration (Ivey) began and completed a regional exploration program named the 'Pembina Project'. The purpose of this project was to explore the Pembina and McLeod River drainage basins for anomalous kimberlite indicator minerals, gold and platinum group metals. SNC Lavalin Environmental (SNC) managed the field program and used Beck Drilling to conduct the sample recovery for the project. In the fall of 2009, exploration continued on the retained properties with the focus being on gold in the Pembina and Brazeau River drainage basins.

DETAILED EXPENDITURE STATEMENT

Actual Expenditures

Project Name: Pembina Project

ACTIVITY	TOTAL COST
CONTRACT DRILLING AND FIELD WORK	\$311,151.45
CONTRACT LAB ASSAY	\$30,000.00
SUBTOTAL	\$341,151.45
ADMINISTRATION (10% of total)	\$34,115.15
TOTAL	\$375,266.60

REGIONAL GEOLOGY

The exploration area covered by the Pembina Project covers a diverse geological setting. The western portion of the Permit Area is near or within the Foothills of Alberta. This terrain is well drained and hilly, with typical drainage to the east and north. Much of the area is comprised of sedimentary bedrock overlain by unconsolidated sediments and glacial till, with higher areas occasionally having exposed bedrock. The western portion of the exploration area is relatively flat, with drainage towards the Pembina and Brazeau Rivers. This area is also covered by unconsolidated sediments and glacial till.

EXPLORATION

Exploration on the Pembina project began in October of 2007 and continues at present. Prior to sampling with the drill rig, 1 week was spent in the field locating suitable locations to drill and obtain samples. The purpose of this program was to sample unconsolidated sediments within the Pembina and Brazeau drainage basins and test for gold metals. Samples were taken at 31 sites along the Pembina and Brazeau Rivers at locations that could utilize existing roads and did not require and lines to be cut in the trees. These samples were obtained using a truck mounted drill rig, with the sediment samples being bagged and sent to Innovative Precious Metals. The Borehole Logs generated by Apex Geoscience are attached in Appendix I. The location maps of each of the testholes are shown in Appendix II. Appendix III shows a Table generated by Ivey Canadian Exploration with the gold values calculated back to the original sample size.

CONCLUSION

This second phase of the exploration program has identified a number of anomalous gold values that warrant further evaluation. As a result, further field testing is recommended to expand the number of testholes around the anomalous findings to determine if a continued trend exists.

AUTHOR QUALIFICATIONS

I, James Hynes, residing at Canmore, Alberta, Canada do hereby certify that:

1. I am a Professional Engineer with Ivey Canadian Exploration Ltd, 10020 101A Avenue NW, Suite 1990, Edmonton, AB, T5J 3G2
2. I am a graduate of the University of New Brunswick with a degree in Geological Engineering (1999) and have practiced my profession continuously since 2000.
3. I am a professional Engineer with APEGGA.
4. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, or the omission to disclose which makes the Report misleading.

James Hynes, P. Eng.
Canmore, Alberta, Canada
October 29th, 2011

REFERENCES

None

PART C – APPENDICES

List of Appendices

- I Drill Hole Logs
- II Drill Hole Location Maps
- III Company Consolidated Assays

APPENDIX I

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH018-AR

Date: Nov 28, 2009

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian geological

Drillers: Brian and Shawn

UTM E (Geo): 601822

UTM N (Geo): 5881202

UTM E (Locator): 601828

UTM N (Locator): 5881205

EOH (feet): 47

Drilled to refusal?: yes

Bedrock depth (feet): 47

Water table 1 (feet): 40

Water table 2 (feet):

Total gravel / sand thickness (feet): none

Pre-drill depth for RC (feet): none

general comments: hard sandstone bedrock

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	40	clay	medium gray	Till sample at 35' TH018-AR	till
40	47	bedrock	light brown		hard sandstone, bedrock refusal

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH019-AR

Date: 28-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 601946

UTM N (Geo): 5881347

UTM E (Locator): 601951

UTM N (Locator): 5881349

EOH (feet): 83

Drilled to refusal?: yes

Bedrock depth (feet): 71

Water table 1 (feet): 60

Water table 2 (feet):

Total gravel / sand thickness (feet): none

Pre-drill depth for RC (feet): none

general comments:

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	71	Clay	medium brow		Till sample at 60' TH019-Ar till
71	83	bedrock			bedrock refusal at 83'

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH020-AR

Date: 28-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 599494

UTM N (Geo): 5880011

UTM E (Locator): 599496

UTM N (Locator): 5880018

EOH (feet): 103

Drilled to refusal?: yes

Bedrock depth (feet): 91

Water table 1 (feet): 70

Water table 2 (feet):

Total gravel / sand thickness (feet): 21

Pre-drill depth for RC (feet): 77

general comments: clean sand

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	70	clay	medium brown grey		
70	87	sand		TH020-AR Till	also took bucket for later panning
87	91	gravel		TH020-AR Gravel	
91	103	bedrock			bedrock refusal at 103

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH023-AR

Date: 29-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 597279

UTM N (Geo): 5879952

UTM E (Locator): 597284

UTM N (Locator): 5879952

EOH (feet): 132

Drilled to refusal?: no

Bedrock depth (feet): 98

Water table 1 (feet): 56

Water table 2 (feet):

Total gravel / sand thickness (feet): 42

Pre-drill depth for RC (feet): 50

general comments: ran out of Auger

hit a gas pocket at 110' possible H₂S, rotten eggs smell noticable but mild

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	56	clay	medium brow	TH023-AR Till	
56	98	sand	light grey	TH023-AR Sand	
98	132	bedrock	blue/grey		shale?

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH024-AR

Date: 29-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by: Rachelle Huppelschoten

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 597139

UTM N (Geo): 5878568

UTM E (Locator): 597130

UTM N (Locator): 5878565

EOH (feet): 132

Drilled to refusal?: no

Bedrock depth (feet): 118

Water table 1 (feet): 50

Water table 2 (feet):

Total gravel / sand thickness (feet): 99

Pre-drill depth for RC (feet): 12

general comments: clean sand

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	19	clay	medium brown grey	TH024-AR Till	
19	118	sand	light brown	TH024-AR Sand	panned= pinch of black sand 2 <1mm gold grains
91	132	bedrock			bedrock refusal at 103

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH025-AR

Date: 29-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 587265

UTM N (Geo): 5880386

UTM E (Locator): 597266

UTM N (Locator): 5880382

EOH (feet): 132

Drilled to refusal?: no

Bedrock depth (feet): n/a

Water table 1 (feet): 70

Water table 2 (feet):

Total gravel / sand thickness (feet): unknown

Pre-drill depth for RC (feet): 17

general comments: ran out of Auger before we hit bedrock, sand and gravel are generally intermixed

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	23	clay	medium brow	TH023-AR Till	
23	63	sand	light brown		
63	65	gravel	light brown		
65	100	sand	light brown	TH023-AR Sand	
100	101	gravel	light brown		
101	109	sand	light brown		
109	121	sand+clay	light brown		stiff behaved like bedrock or till
121	132	gravel	light brown		ran out of auger

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH026-AR

Date: 30-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 594256

UTM N (Geo): 5882004

UTM E (Locator): 594254

UTM N (Locator): 5881988

EOH (feet): 87

Drilled to refusal?: no

Bedrock depth (feet): 65

Water table 1 (feet): 65

Water table 2 (feet):

Total gravel / sand thickness (feet): n/a

Pre-drill depth for RC (feet): no longer pre drillin

general comments:

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	65	clay	medium brow	TH026-AR Till	some pebbles in till
65	87	bedrock	light brown	sand stone	

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH027-AR

Date: 30-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 594264

UTM N (Geo): 5882506

UTM E (Locator): 594267

UTM N (Locator): 5882506

EOH (feet): 102

Drilled to refusal?: no

Bedrock depth (feet): 93

Water table 1 (feet): 63

Water table 2 (feet):

Total gravel / sand thickness (feet): 5

Pre-drill depth for RC (feet): no longer pre drillin

general comments: hard till appeared to be bed rock at 87, upon inspection this proved false drilling was continued two till samples were taken as a result

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	63	clay	medium brow	TH027-AR Till	some pebbles in till
63	88	hard clay	dk brown grey	TH027-AR Till last 5	very still, behaves like bedrock
88	93	gravel		TH027-AR Gravel	
93	102	bedrock	light brown		same as 26, sandstone

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH028-AR

Date: 30-Nov-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Brian and Shawn

UTM E (Geo): 594476

UTM N (Geo): 5880271

UTM E (Locator): 594491

UTM N (Locator): 5880262

EOH (feet): 122

Drilled to refusal?: no

Bedrock depth (feet): 92

Water table 1 (feet): 80

Water table 2 (feet):

Total gravel / sand thickness (feet): 12

Pre-drill depth for RC (feet): no longer pre drillin

general comments:

from (feet)	to (feet)	lithology	colour	sample bag no.	comments
0	80	clay	medium brow	TH028-AR Till	
80	92	sand	light brown	TH028-AR Sand	
92	122	bedrock	dk grey		shale

RC Log: Ivey Drayton Valley Test Holes

Hole: TH020-RC

Drill date: 05-Dec-09

Logged by: Kyle

Drilling contractor: Geowest

Drillers: Jason, Tom, Ray, Jimmy

UTM E (Locator): 599496

UTM N (Locator): 5880018

Top of gravel / sand (feet): 65

Bedrock depth (feet): 94

EOH (feet): 95.5

Total gravel / sand thickness (feet): 29

Sample bag interval (feet): 63-95.5

Sample bag ID: TH020-RC

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	comments
0	65	clay till	med dk gy	
65	77	gravel	multicolc	dirty gravel between 65-70'
77	82	sand	NR	
82	94	gravel	multicoloured	
94	95.5	shale	med bro	bedrock

RC Log: Ivey Drayton Valley Test Holes

Hole: TH025-RC

Drill date: 06-Dec-09

Logged by: Kyle

Drilling contractor: Geowest

Drillers: Jason, Tom, Ray, Jimmy

UTM E (Locator): 597266

UTM N (Locator): 5880382

Top of gravel / sand (feet): 17

Bedrock depth (feet): 145

EOH (feet): 155

Total gravel / sand thickness (feet): 128

Sample bag interval (feet): 17-154'

Sample bag ID: TH025-RC, Bag 1 (17-76'), Bag 2 (76-116'), Bag 3 (116-136'), Bag 4 (136-154)

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	comments
0	17	clay till	tan	
17	70	sand	brown	
70	75.5	sand / grav	brown	mixed
75.5	77	gravel	multicolc	clean
77	78	sand / grav	brown	mixed, mainly sand
78	105	sand	brown	
105	110	sand / grav	NR	mixed
110	112	sand	brown	
112	114	gravel	multicoloured	
114	125	clay	med-dk	relatively soft
125	144	gravel	multicolc	grain size notably variable
144	145	sand	brown	sand
145	155	shale	med-dk	bedrock; hard

RC Log: Ivey Drayton Valley Test Holes

Hole: TH027-RC

Drill date: 09-Dec-09

Logged by: Kyle, Casey

Drilling contractor: Geowest

Drillers: Jason, Tom, Ray, Jimmy

UTM E (Locator): 594267

UTM N (Locator): 5882506

Top of gravel / sand (feet): 27, 65, 75

Bedrock depth (feet):

EOH (feet):

Total gravel / sand thickness (feet):

Sample bag interval (feet): 28-49 (bag 1), 65- (bag 2)

Sample bag ID: TH027-RC bag 1, TH027-RC bag 2

Reclamation notes:

General comments: note multiple gravel lenses above the main zone

from (feet)	to (feet)	lithology	colour	comments
0	27	clay till	med dk gy	
27	36	gravel	multicoloured	clean
36	48	clay / gravel	NR	mixed
48	65	clay	med dk gy	till?
65	67	gravel	multicoloured	
67	75	gravel / clay	NR	mixed
75	85	clay	med dk gy	till?
85				

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH029-AR

Drill date: Dec 1 2009

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 591995

UTM N (Geo): 5876749

UTM E (Locator): 591997

UTM N (Locator): 5876755

Water table 1 (feet): 7

Water table 2 (feet):

Top of gravel / sand (feet): 123

Bedrock depth (feet): 128

Drilled to refusal? no

EOH (feet): 132

Total gravel / sand thickness (feet): 5

Reclamation notes:

General comments: ran out of auger at 132'

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	7	sand	medium brown		
7	60	sandy clay	medium brown/grey		
60	123	silty clay (soupy)	light to medium grey	TH029-AR Till	
123	128	Gravel			
128	132	bedrock?			sandstone

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH032-AR

Drill date: Dec 1 2009

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 593033

UTM N (Geo): 5882133

UTM E (Locator): 593034

UTM N (Locator): 5882135

Water table 1 (feet): 27

Water table 2 (feet):

Top of gravel / sand (feet): 27

Bedrock depth (feet): 30

Drilled to refusal? no

EOH (feet): 62

Total gravel / sand thickness (feet): 3

Reclamation notes:

General comments: near refusal

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	27	Clay	medium brown grey	TH032-AR Till	
27	30	Sand/Gravel	light to med brown	TH032-AR sand/gravel	
30	62	Bedrock	light to med brown	sandstone	

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH033-AR
Drill date: Dec 1 2009
Logged by: Rachelle Huppelschoten
Gravel sample panned by:
Drilling contractor: Canadian Geological
Drillers: Shawn and Brian
UTM E (Geo): 592283
UTM N (Geo): 5882716
UTM E (Locator): 592292
UTM N (Locator): 5882707
Water table 1 (feet): 41
Water table 2 (feet):
Top of gravel / sand (feet): 27
Bedrock depth (feet): 29
Drilled to refusal? no
EOH (feet): 47
Total gravel / sand thickness (feet): 2
Reclamation notes:
General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	27	Clay	medium brown grey	TH033-AR Till	
27	29	Sand/Gravel	light to med brown	no sample	washed away by water
29	47	Bedrock	light to med brown	sandstone	

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH034-AR

Drill date: Dec 3 2009

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 592261

UTM N (Geo): 5876295

UTM E (Locator): 592261

UTM N (Locator): 5876296

Water table 1 (feet): 5

Water table 2 (feet):

Top of gravel / sand (feet): 5

Bedrock depth (feet): 49

Drilled to refusal? yes

EOH (feet): 62

Total gravel / sand thickness (feet): 22

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	5	Clay	medium brown	TH034-AR Till	shale
5	27	Silt/sand/Clay?	light brown		
27	49	Clay	medium brown/grey		
49	62	Bedrock	Grey blue		

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH035-AR

Drill date: Dec 3 2009

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 591474

UTM N (Geo): 5876231

UTM E (Locator): 591477

UTM N (Locator): 5876241

Water table 1 (feet): 25

Water table 2 (feet):

Top of gravel / sand (feet): 102

Bedrock depth (feet): 107

Drilled to refusal? no

EOH (feet): 122

Total gravel / sand thickness (feet): 5

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	25	Clay	medium brown		
25	27	Sand	medium brown/grey		
27	102	Clay	medium brown/grey	TH035-AR Till	
102	107	sand/gravel	medium brown		
107	122	Bedrock	light-medium brown		sandstone

RC Log: Ivey Drayton Valley Test Holes

Hole: TH029-RC

Drill date: 10-Dec-09

Logged by: Casey Lunn

Drilling contractor: Geowest

Drillers: Tom, Ray, Jimmy

UTM E (Locator): 591997

UTM N (Locator): 5876755

Top of gravel / sand (feet): 120

Bedrock depth (feet): 128

EOH (feet): 136

Total gravel / sand thickness (feet): 8

Sample bag interval (feet): 117-130'

Sample bag ID: TH029-RC, Bag 1 (117-130")

Reclamation notes: covered RC hole with mud

General comments: -14C

2 3/4 m³ water consumed

1 sample bag

from (feet)	to (feet)	lithology	colour	comments
0	9	sand	tan	
9	63	clay	grey	
63	92	sandy clay	grey	
92	120	silty clay	grey	
120	128	gravel	multicolored	interspersed with clay
128	136	sandstone		bedrock

RC Log: Ivey Drayton Valley Test Holes

Hole: TH035-RC

Drill date: 09-Dec-09

Logged by: Casey Lunn

Drilling contractor: Geowest

Drillers: Tom, Ray, Jimmy

UTM E (Locator): 591477

UTM N (Locator): 5876241

Top of gravel / sand (feet): 50

Bedrock depth (feet): 107

EOH (feet): 117

Total gravel / sand thickness (feet): 57

Sample bag interval (feet): Bag 1 (50-68'), Bag 2 (100-107')

Sample bag ID: TH035-RC, Bag 1 (50-68'), Bag 2 (100-107')

Reclamation notes:

General comments:

Temp -15C

2 3/4 m³ water consumed

from (feet)	to (feet)	lithology	colour	comments
0	50	clay	grey	
50	68	clay/gravel	grey	
68	78	clay	grey	
78	83	sand	light grey	
83	97	clay	grey	
97	107	gravel	multicolored	some clay
107	117	sandstone		bedrock

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH038-AR

Drill date: 08-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 590635

UTM N (Geo): 5890176

UTM E (Locator): 590635

UTM N (Locator): 5890171

Water table 1 (feet): 22

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 13

Drilled to refusal? no

EOH (feet): 27

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	13	Clay	Medium	TH038-AR Till	
13	27	Bedrock	Medium Brown/grey		sandstone

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH039-AR

Drill date: 04-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 588776

UTM N (Geo): 5887122

UTM E (Locator): 588777

UTM N (Locator): 5887124

Water table 1 (feet): 31

Water table 2 (feet):

Top of gravel / sand (feet): 31

Bedrock depth (feet): 46

Drilled to refusal? no

EOH (feet): 62

Total gravel / sand thickness (feet): 15

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	1	Road fill	medium brown		
1	31	Clay	medium	TH039-AR Till	
31	46	Gravel	medium	TH039-AR gravel	clean
46	62	Bedrock	med gre	shale	

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH040-AR

Drill date: 08-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 586395

UTM N (Geo): 5888293

UTM E (Locator): 586394

UTM N (Locator): 5888290

Water table 1 (feet): none

Water table 2 (feet):

Top of gravel / sand (feet): 5

Bedrock depth (feet): 12

Drilled to refusal? no

EOH (feet): 22

Total gravel / sand thickness (feet): 7

Reclamation notes:

General comments: dry hole

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	5	Clay	Medium	TH040-AR Till	
5	12	Sand/Gravel	Medium	TH040-AR Sand/Gravel	
12	22	Bedrock	Medium grey		

RC Log: Ivey Drayton Valley Test Holes

Hole: TH039-RC

Drill date: 10-Dec-09

Logged by: Casey Lunn

Drilling contractor: Geowest

Drillers: Torn, Ray, Jimmy

UTM E (Locator): 588777

UTM N (Locator): 5887124

Top of gravel / sand (feet): 30

Bedrock depth (feet): 47

EOH (feet): 57

Total gravel / sand thickness (feet): 17

Sample bag interval (feet): 25-49'

Sample bag ID: TH039-RC, Bag 1 (25-49')

Reclamation notes:

General comments: 1 Sample Bag

-12C

1m water consumed

from (feet)	to (feet)	lithology	colour	comments
0	30	clay	grey	
30	47	gravel	multicolored	clean and plenty
47	57	shale		bedrock

RC Log: Ivey Drayton Valley Test Holes

Hole: TH040-RC

Drill date: 11-Dec-09

Logged by: Casey Lunn

Drilling contractor: Geowest

Drillers: Tom, Ray, Jimmy

UTM E (Locator): 586394

UTM N (Locator): 5888290

Top of gravel / sand (feet): 5

Bedrock depth (feet): 12

EOH (feet): 17

Total gravel / sand thickness (feet): 7

Sample bag interval (feet): Bag 1 (0-17')

Sample bag ID: TH040-RC, Bag 1

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	comments
0	5	Clay	Grey	
5	12	Gravel	multicolored	
12	17	Shale		Bedrock

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH050-AR

Drill date: 05-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 580821

UTM N (Geo): 5881588

UTM E (Locator): 580826

UTM N (Locator): 5881583

Water table 1 (feet): 18

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 17

Drilled to refusal? yes

EOH (feet): 24

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	17	Clay	medium brown/grey	TH050-AR Till	
17	24	Bedrock	Medium brown		Sandstone

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH051-AR

Drill date: 05-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 581464

UTM N (Geo): 5878336

UTM E (Locator): 581471

UTM N (Locator): 5878335

Water table 1 (feet): 18

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 89

Drilled to refusal? no

EOH (feet): 102

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	31	Sand	medium brown	TH051-AR Till	
31	89	Clay	medium brown/grey		
89	102	Bedrock	medium grey		Shale

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH060-AR

Drill date: 06-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 576964

UTM N (Geo): 5884872

UTM E (Locator):

UTM N (Locator):

Water table 1 (feet): none

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 9

Drilled to refusal? no

EOH (feet): 42

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments: dry hole

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	9	Clay	Medium brown/grey	TH060-AR Till	
9	42	Bedrock	Medium grey		Shale

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH061-AR

Drill date: 07-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 574927

UTM N (Geo): 5881844

UTM E (Locator): 574928

UTM N (Locator): 5881848

Water table 1 (feet): 20

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 16

Drilled to refusal? no

EOH (feet): 32

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	1	Roadfill sand/gravel	Medium brown/grey	TH061-AR till	Shale
1	2	Soil	dark black		
2	16	Clay	Medium brown/grey		
16	32	Bedrock	Medium grey		

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH062-AR

Drill date: 06-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 575784

UTM N (Geo): 5884644

UTM E (Locator):

UTM N (Locator):

Water table 1 (feet): 8

Water table 2 (feet):

Top of gravel / sand (feet): 5

Bedrock depth (feet): 42

Drilled to refusal? no

EOH (feet): 62

Total gravel / sand thickness (feet): 37

Reclamation notes:

General comments: near refusal

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	5	Roadfill sand/gravel	Medium brown/grey	TH060-AR sand/gravel	no till sample
5	40	Sand	Medium brown/grey		
40	42	Gravel	Medium brown/grey		
42	62	Bedrock	Medium grey		Shale

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH066-AR

Drill date: 07-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 573804

UTM N (Geo): 5881710

UTM E (Locator): 573801

UTM N (Locator): 5881711

Water table 1 (feet):

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 33

Drilled to refusal? yes

EOH (feet): 44

Total gravel / sand thickness (feet): none

Reclamation notes:

General comments: dry hole

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	1	Roadfill sand/gravel	Medium brown/grey		
1	33	Clay	Medium brown/grey	TH066-AR till	
33	44	Bedrock	Medium grey		Shale

Auger Log: Ivey Drayton Valley Test Holes

Hole: TH067-AR

Drill date: 07-Dec-09

Logged by: Rachelle Huppelschoten

Gravel sample panned by:

Drilling contractor: Canadian Geological

Drillers: Shawn and Brian

UTM E (Geo): 574598

UTM N (Geo): 5881794

UTM E (Locator): 574600

UTM N (Locator): 5881800

Water table 1 (feet): 19

Water table 2 (feet):

Top of gravel / sand (feet): none

Bedrock depth (feet): 25

Drilled to refusal? no

EOH (feet): 37

Total gravel / sand thickness (feet): none

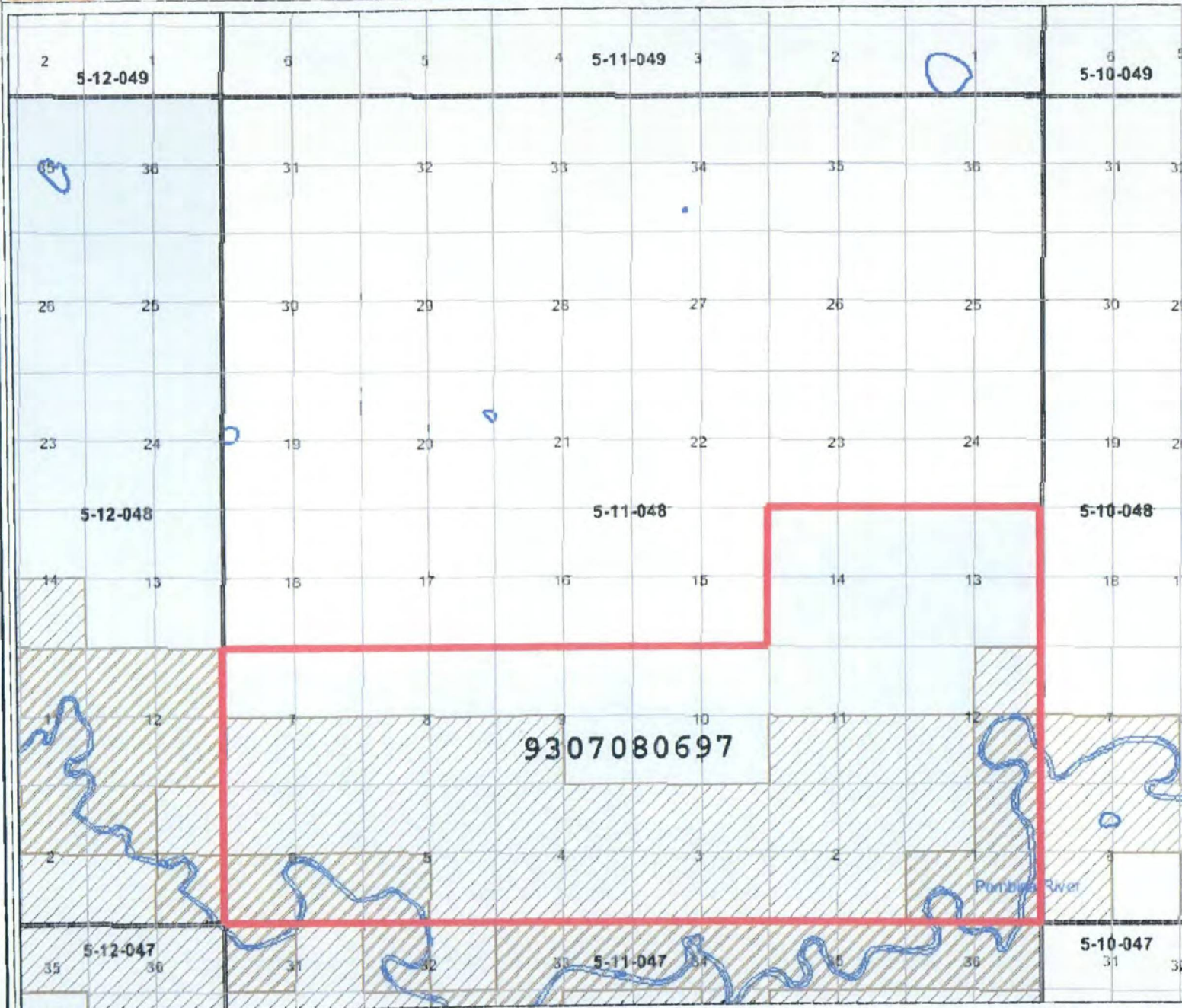
Reclamation notes:

General comments:

from (feet)	to (feet)	lithology	colour	sample bag ID	comments
0	5	Roadfill sand/gravel	Medium brown/grey		
5	25	Clay/sand	Medium brown/grey	TH067-AR till	
14	37	Bedrock	Medium grey		Shale

APPENDIX II

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
- 30 Day Reserved
 - Alberta Boundary
 - Meridian
 - Quarter Section
 - Section
 - Township
 - Major River
 - Major Lake
 - Major Road
 - Reserved/Withdrawn - Restrictions
 - No Surface Access - Restrictions
 - Subject To - Restrictions
 - Other - Restrictions
 - Municipality
 - 037 - Special Mineral Lease
 - 069 - Phosphate Exploration
 - 093 - Met & Ind Permit
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 - Mineral Ownership Under Review
 - Minerals Not Owned by the Alberta Crown
 - Parks and Protected Areas

October 28, 2011

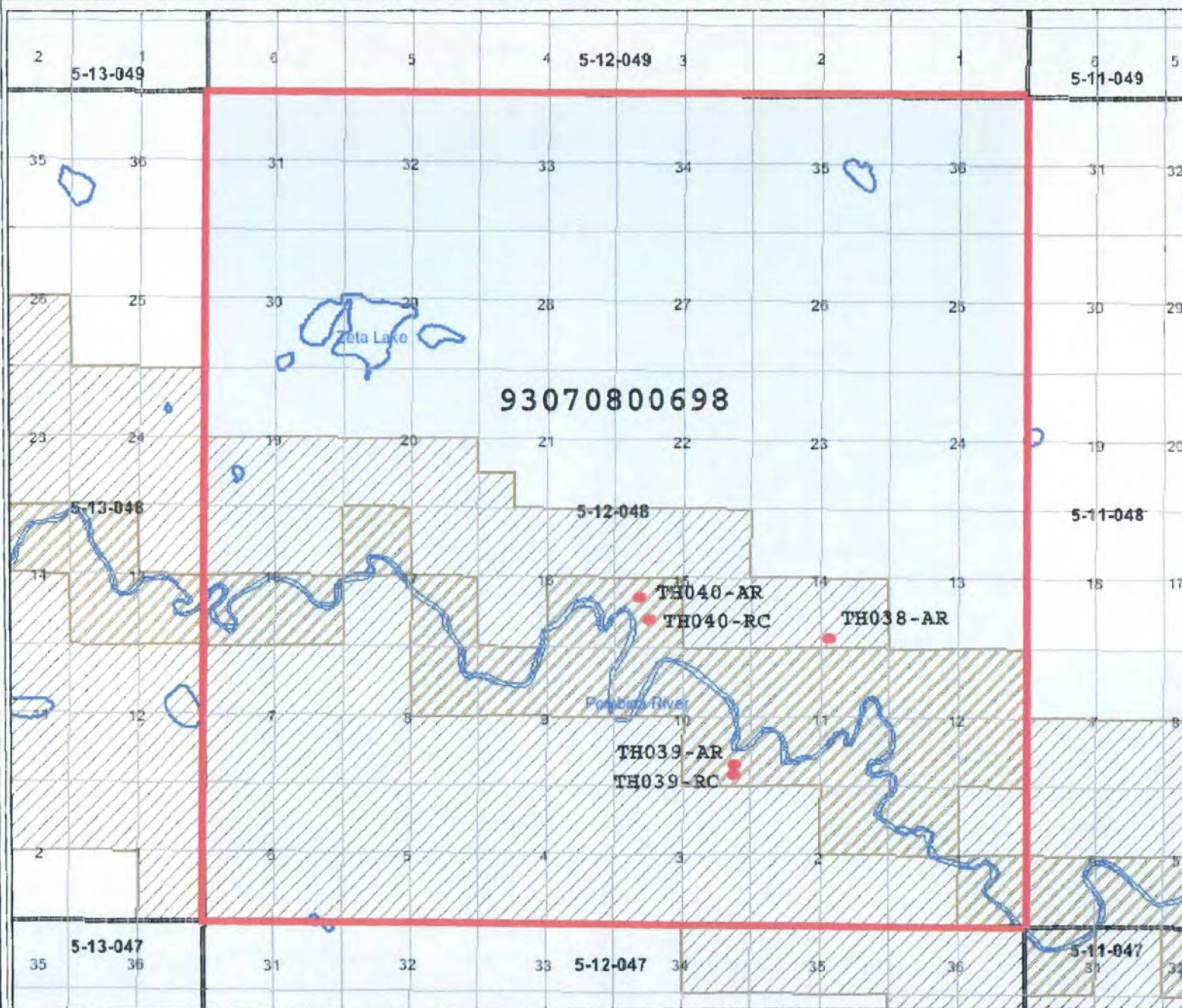
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NO TESTHOLES IN THIS AREA

Map center: 53° 8' 56" N, 115° 32' 35" W

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
- 30 Day Reserved
 - Alberta Boundary
 - Meridian
 - Quarter Section
 - Section
 - Township
 - Major River
 - Major Lake
 - Major Road
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October 26, 2011

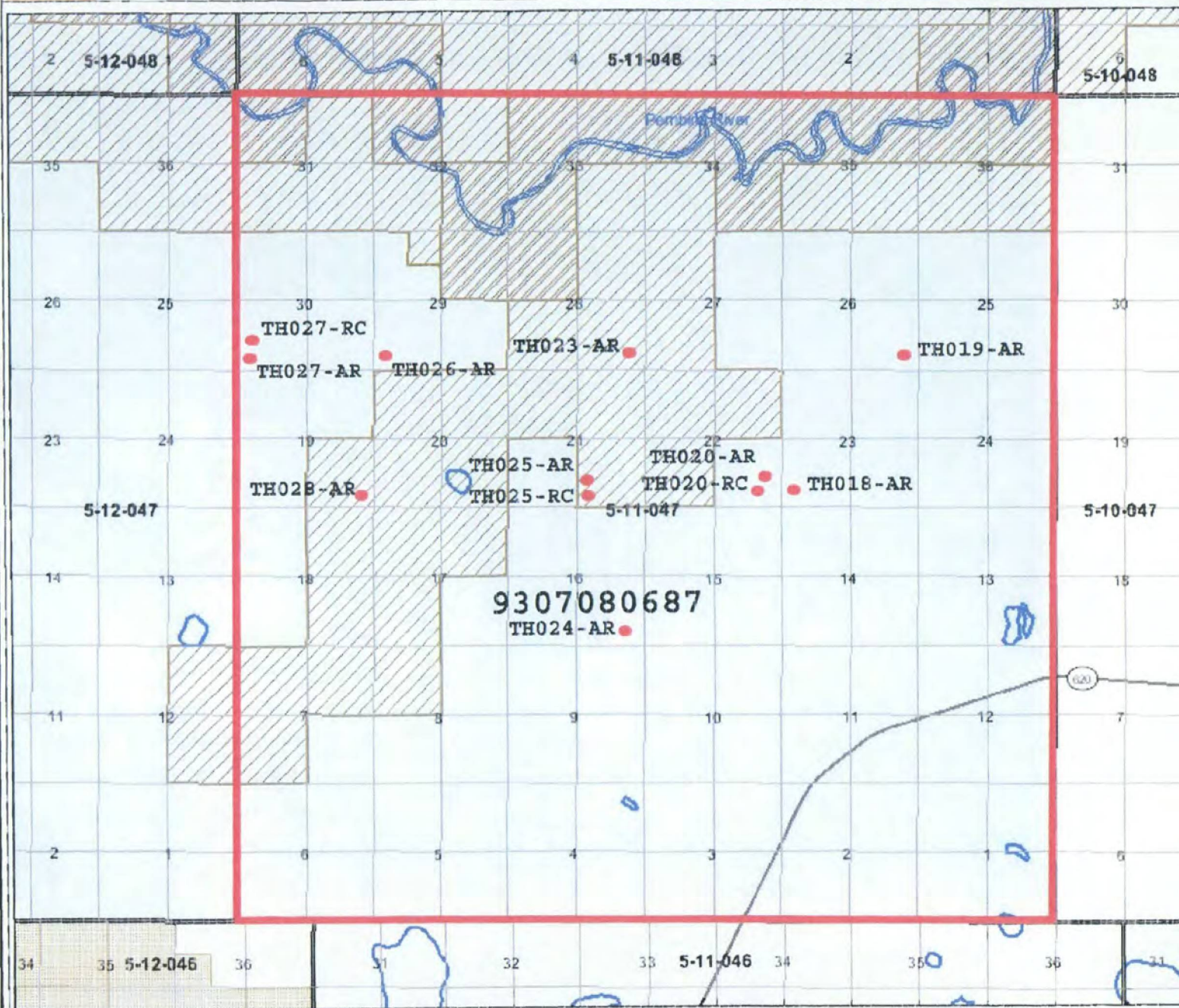
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Map center: 53° 8' 55" N, 115° 41' 12" W

5 TESTHOLES IN TOTAL

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



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October 29, 2011

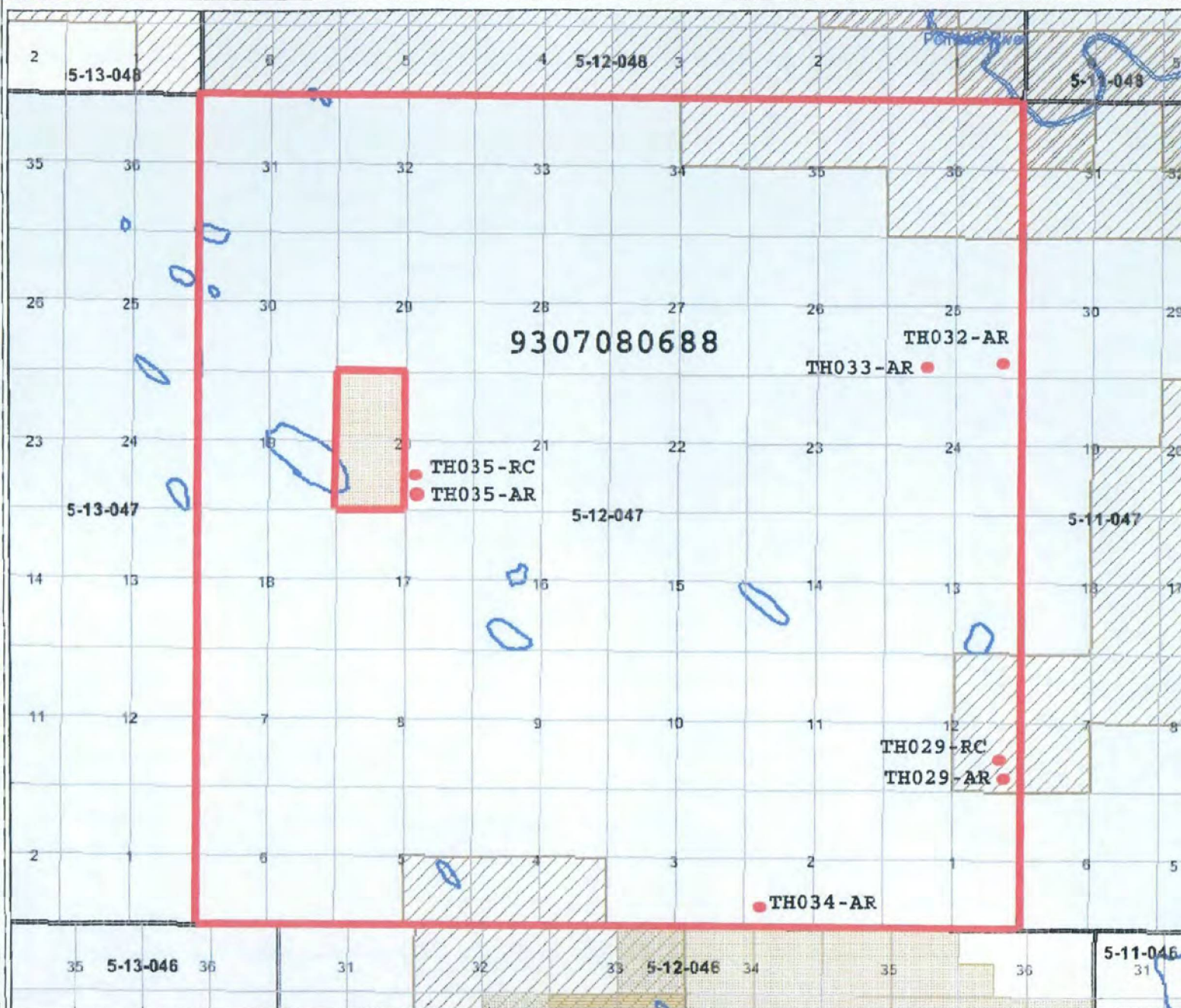
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Map center: 53° 3' 41" N, 115° 32' 46" W

12 TESTHOLES IN TOTAL

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
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October 29, 2011

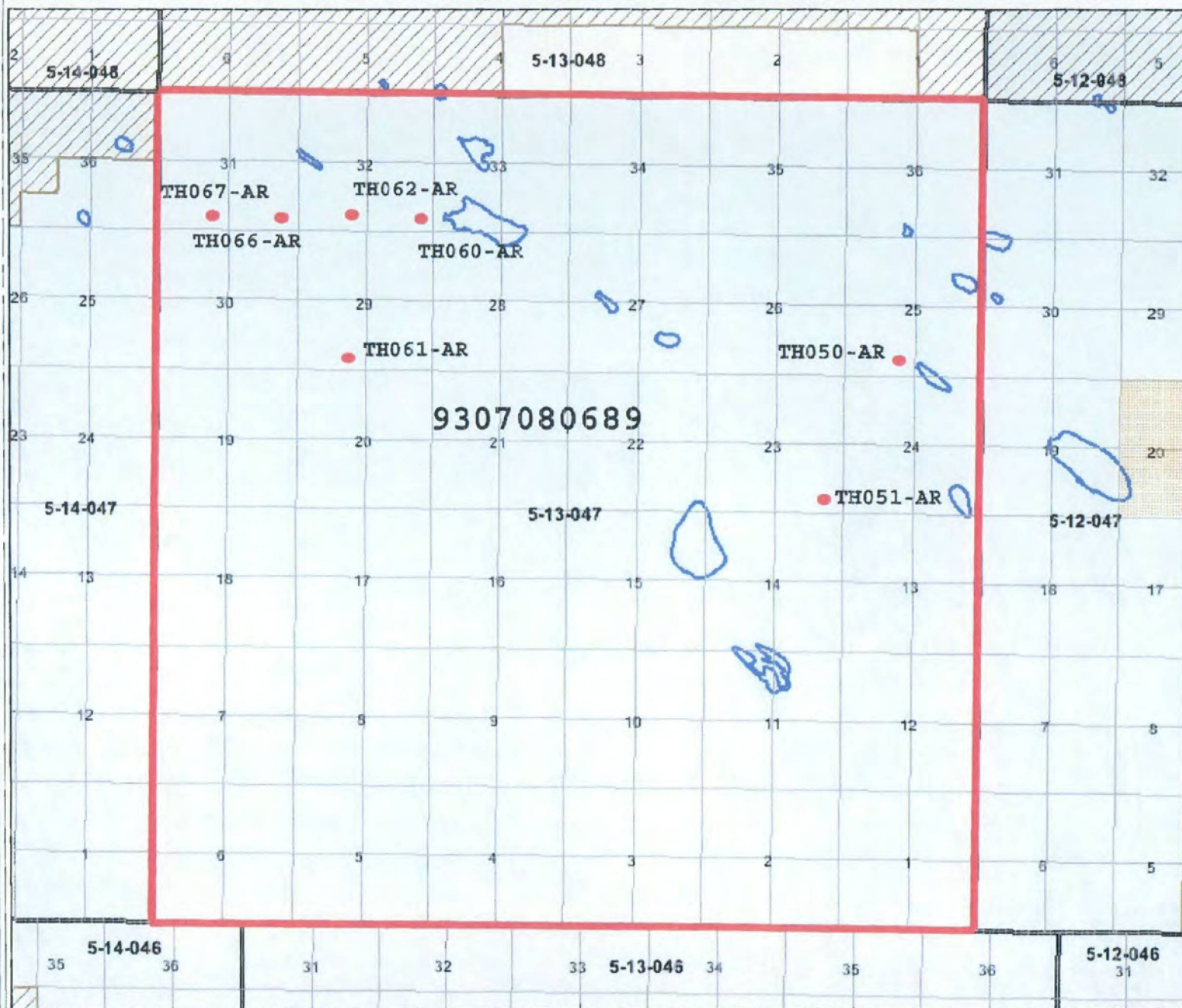
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Map center: 53° 3' 42" N, 115° 41' 9" W

7 TESTHOLES IN TOTAL

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



Legend

- 30 Day Reserved
- Alberta Boundary
- ~ Meridian
- Quarter Section
- Section
- Township
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October 29, 2011

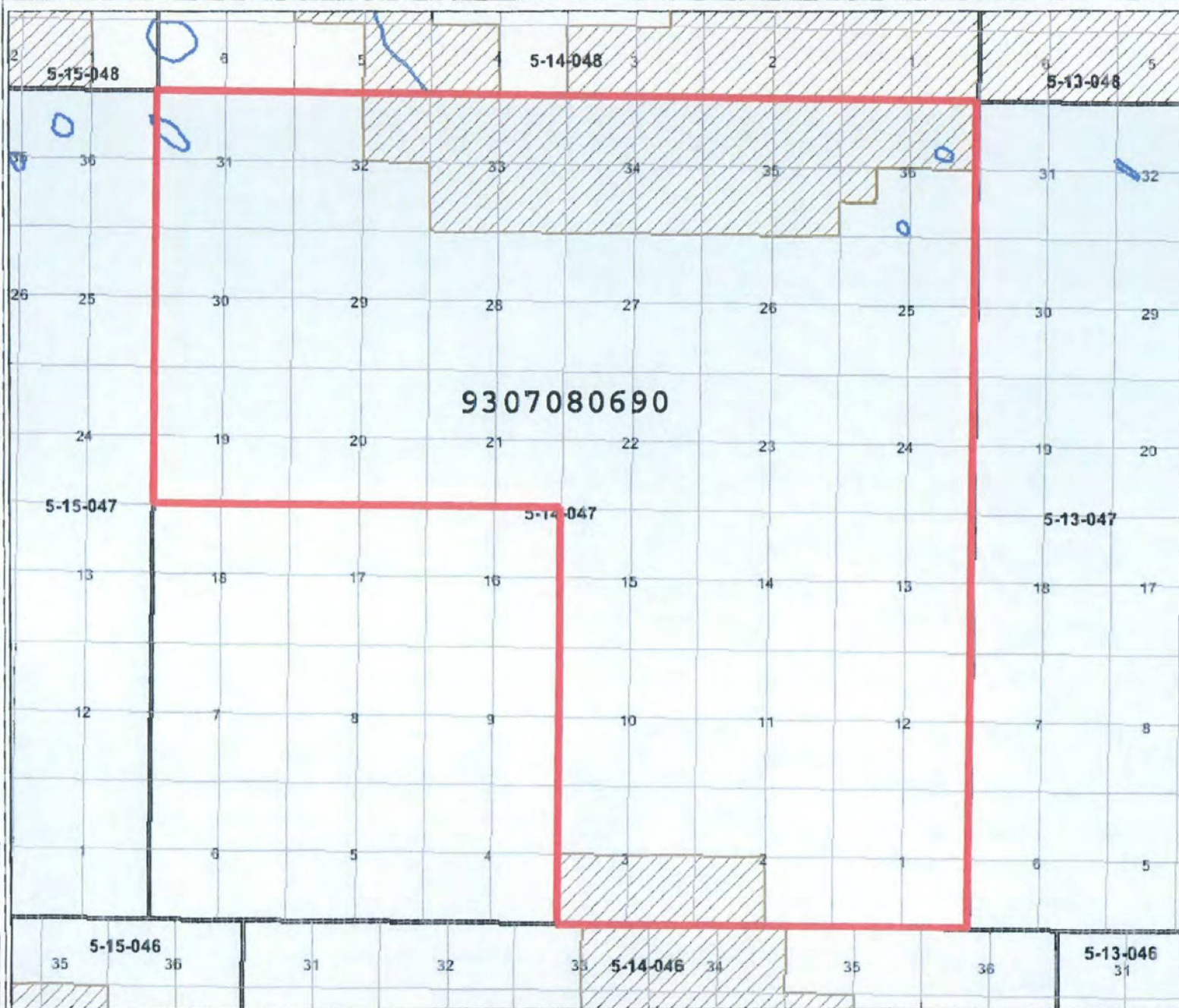
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Map center: 53° 3' 42" N, 115° 49' 27" W

7 TESTHOLES IN TOTAL

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ### Legend
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October 29, 2011

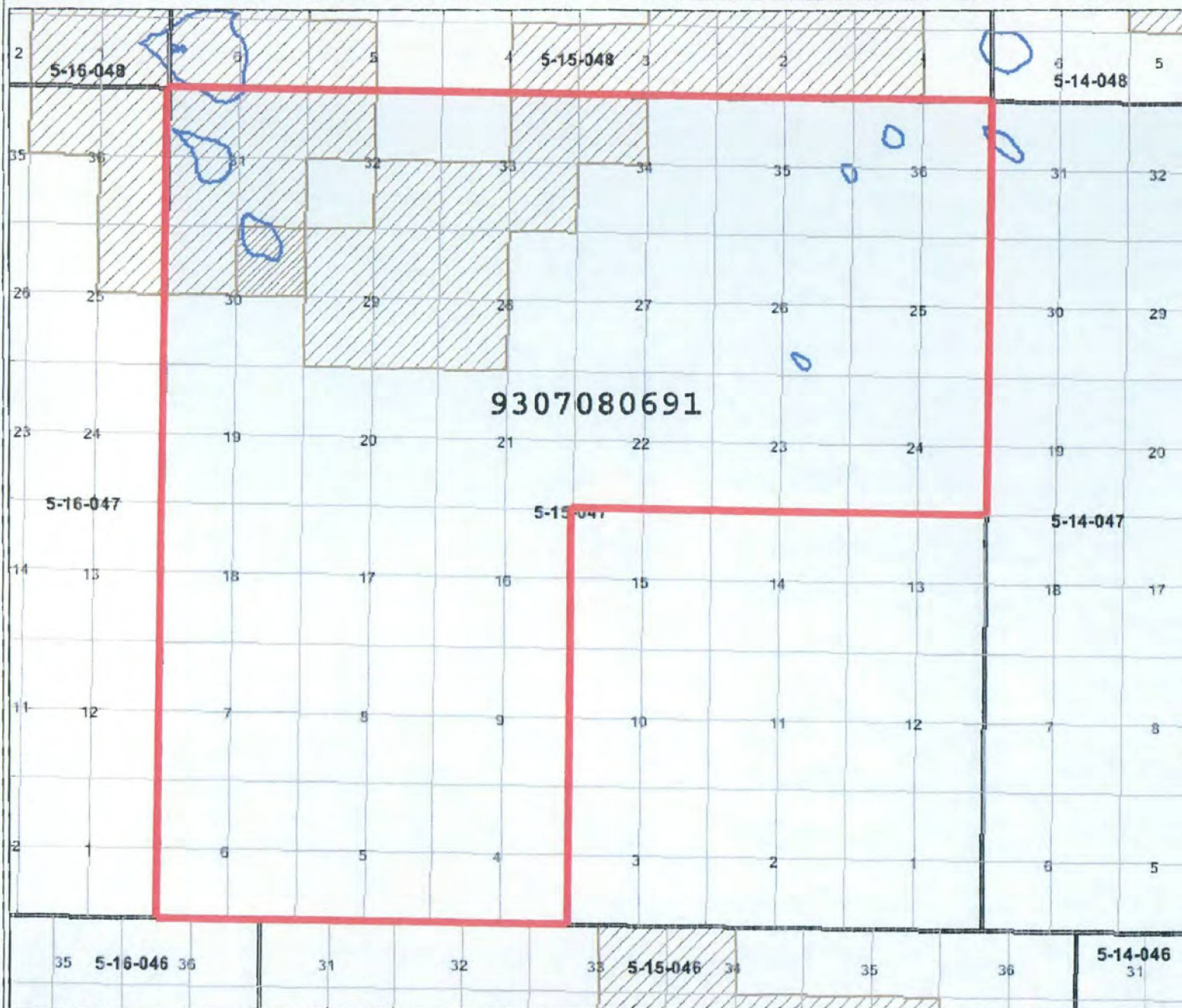
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Map center: 53° 3' 41" N, 115° 58' 12" W

NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- Legend**
- 30 Day Reserved
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October 29, 2011

Map center: 53° 3' 41" N, 116° 7' 4" W

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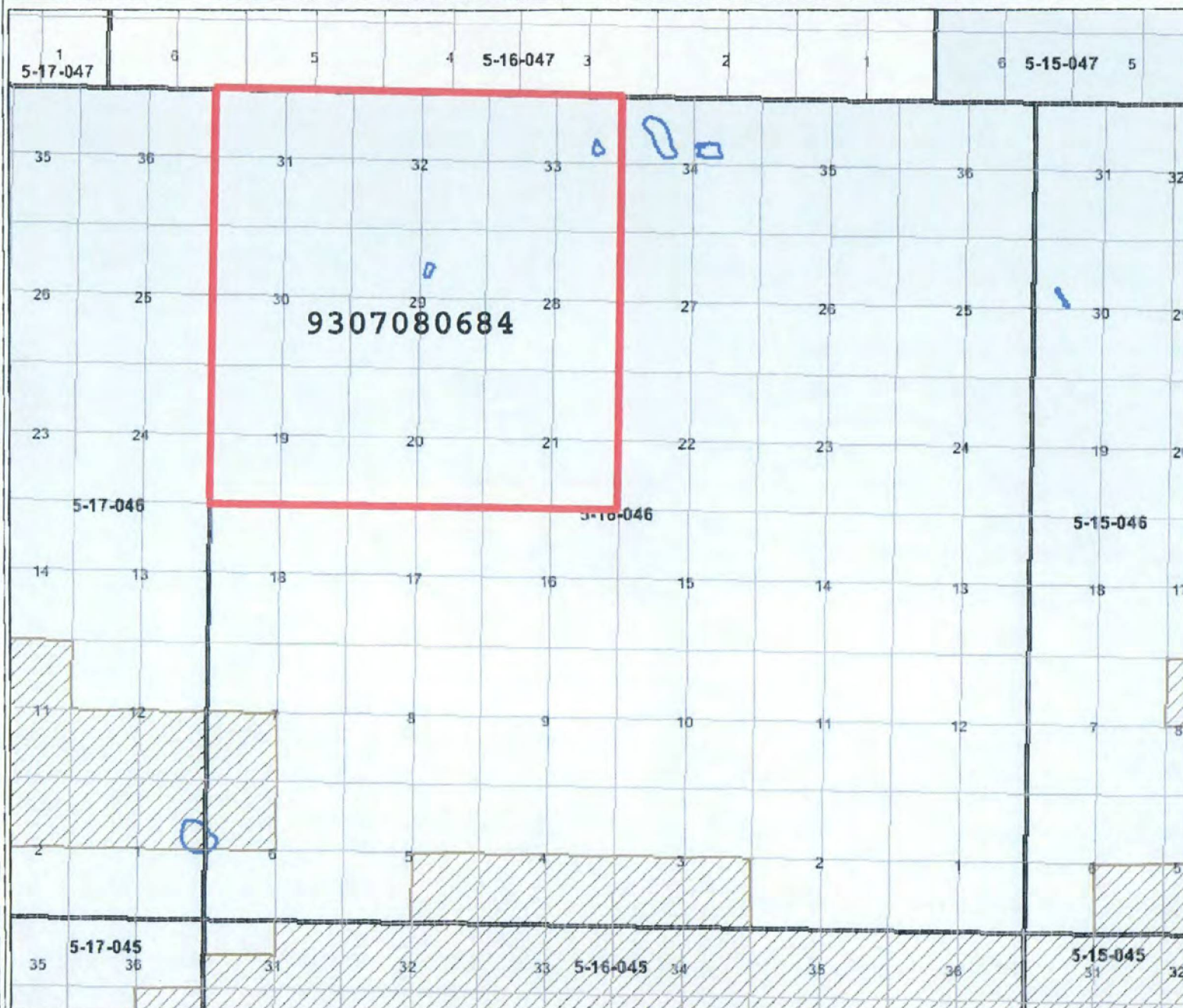
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NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals

IVEY CANADIAN EXPLORATION

Part 1 of 1



Legend

- 30 Day Reserved
- Alberta Boundary
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- Section
- Township
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October 29, 2011

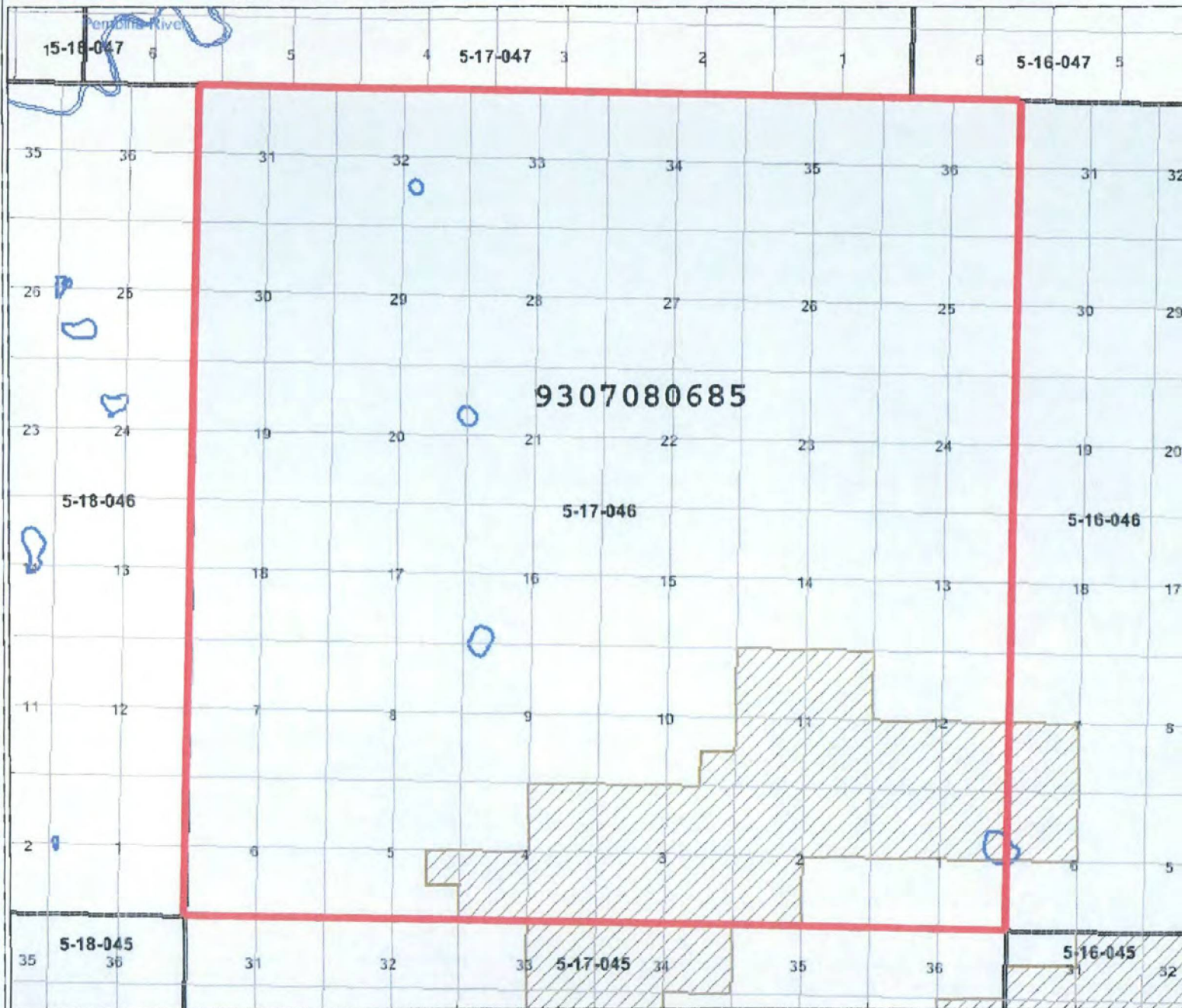
Map center: 52° 58' 27" N, 116° 15' 13" W

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NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
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October 29, 2011

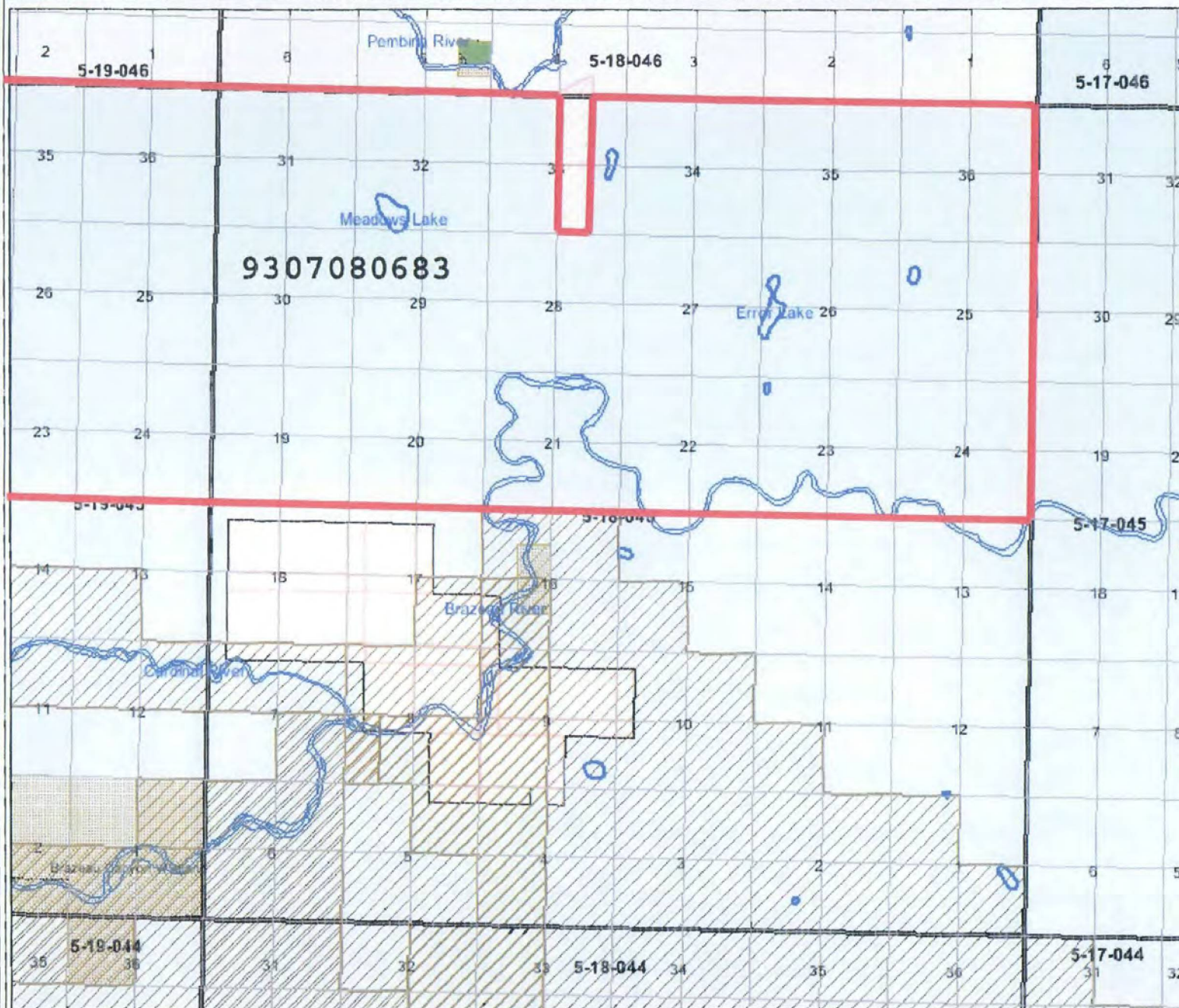
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Map center: 52° 58' 27" N, 116° 23' 43" W

NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
- 30 Day Reserved
 - Alberta Boundary
 - ~ Meridian
 - Quarter Section
 - Section
 - Township
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October 28, 2011

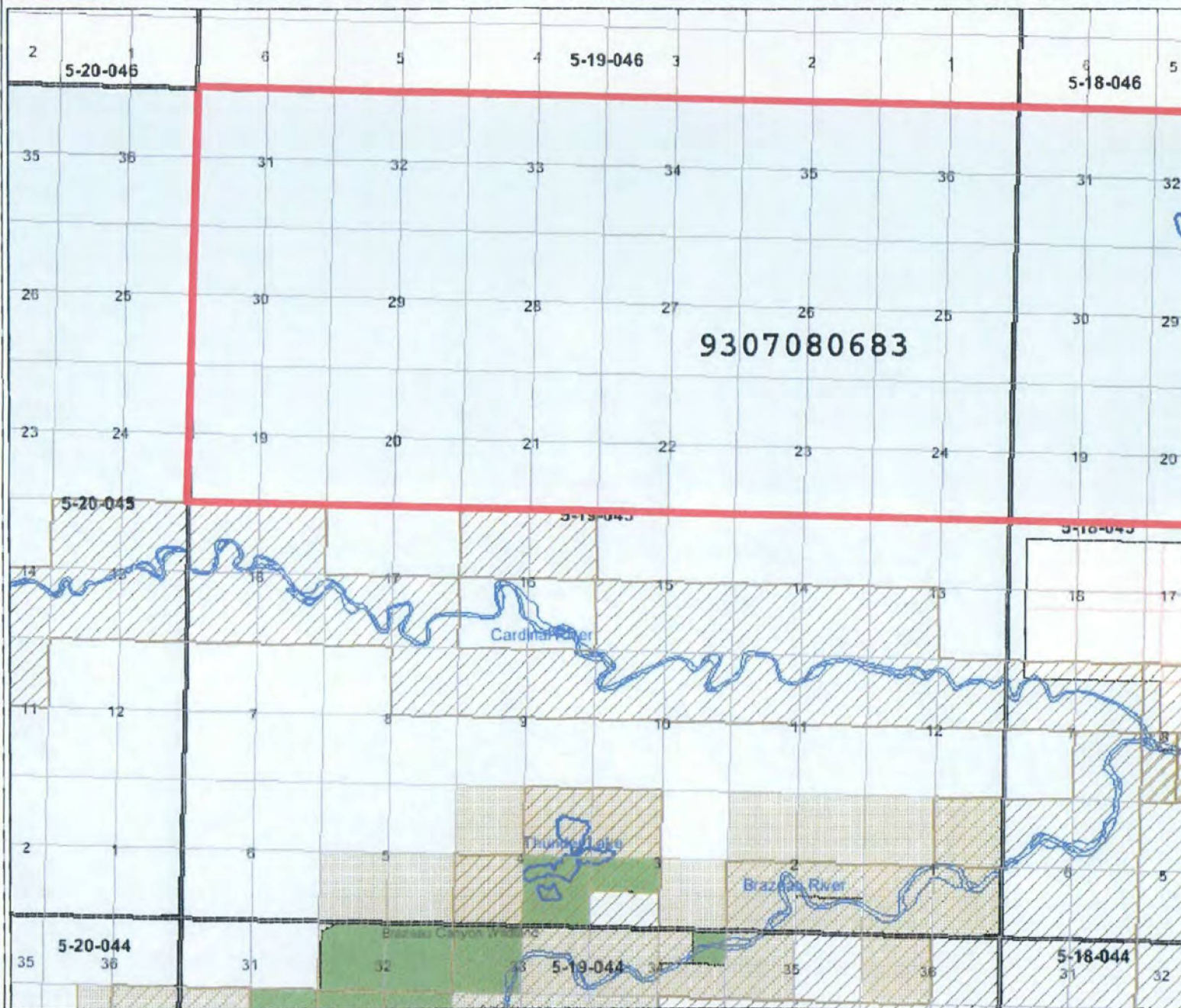
Map center: 52° 53' 14" N, 116° 32' 38" W

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NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



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October 29, 2011

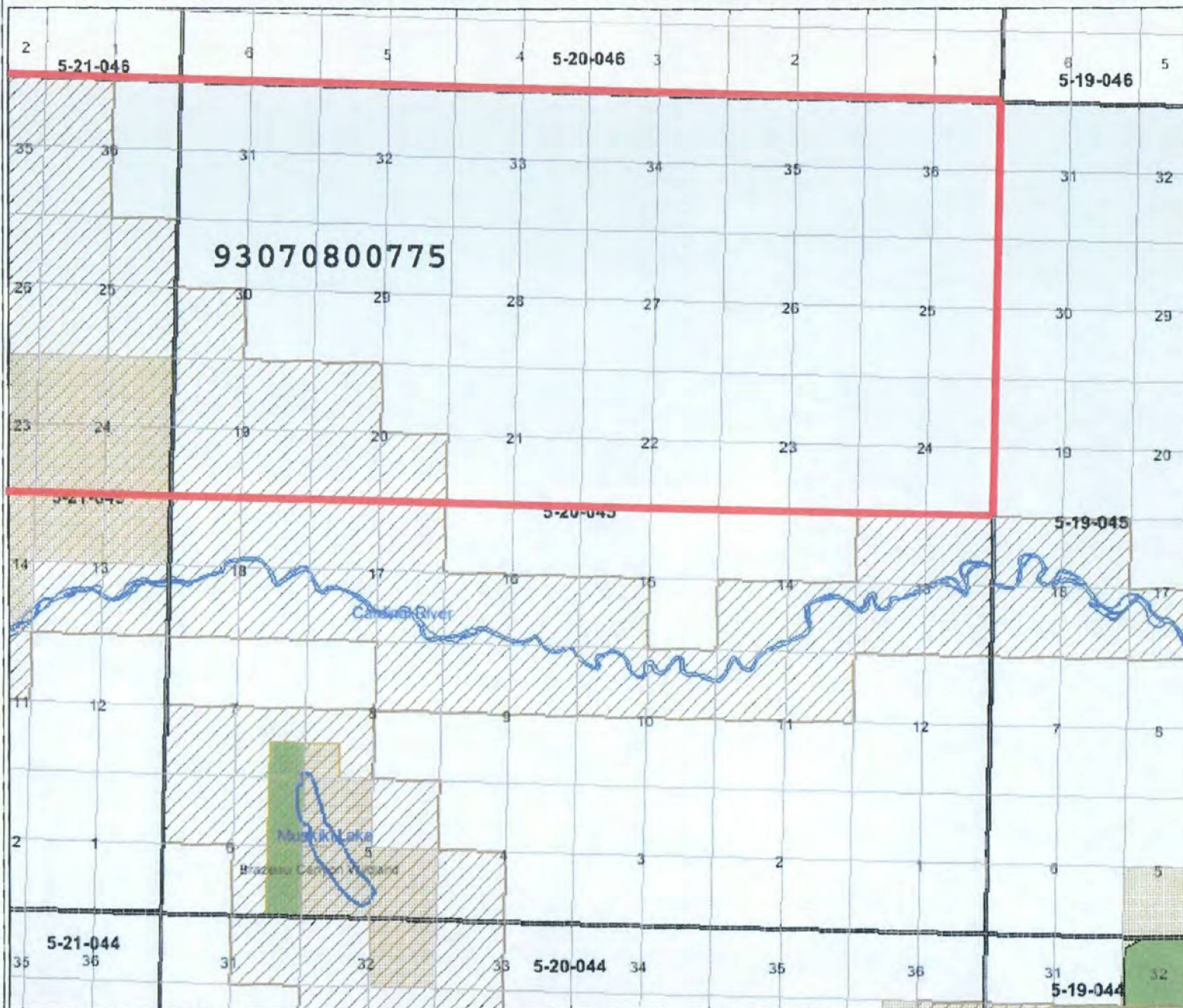
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Map center: 52° 53' 14" N, 116° 41' 6" W

NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



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October 29, 2011

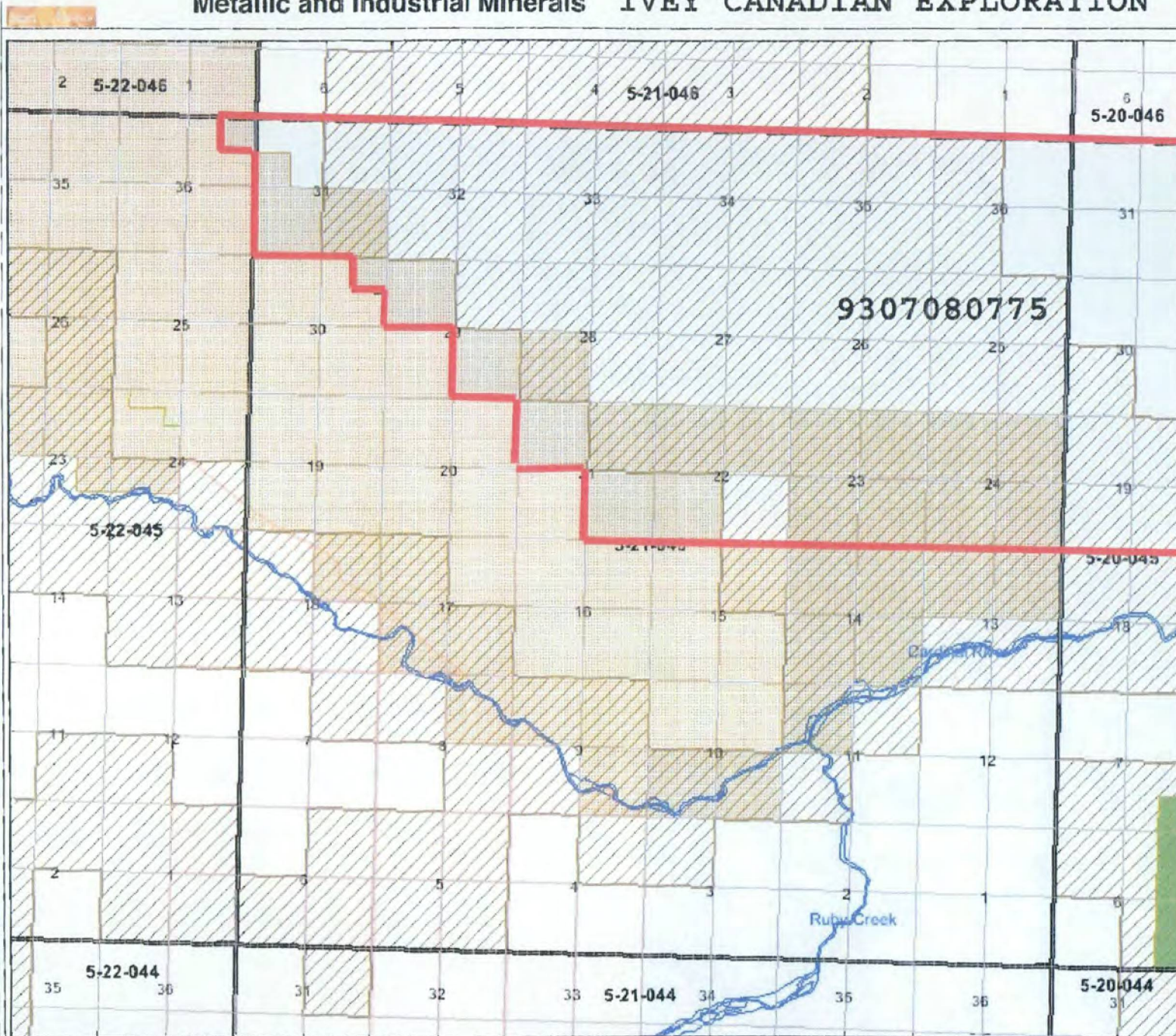
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Map center: 52° 53' 12" N, 116° 49' 38" W

NO TESTHOLES IN THIS AREA

Metallic and Industrial Minerals IVEY CANADIAN EXPLORATION



- ## Legend
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October 29, 2011

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Map center: 52° 53' 14" N, 116° 59' 7" W

NO TESTHOLES IN THIS AREA

APPENDIX III

ASSAY RESULTS

SAMPLE ID #	IPMT ASSAY (g/t)
TH020-RC1	0.17
TH025-RC1	0.35
TH025-RC2	0.10
TH025-RC3	0.15
TH025-RC4	0.15
TH027-RC1	0.20, 0.45
TH027-RC2	0.04
TH029-RC1	0.10
TH035-RC1	0.14
TH035-RC2	0.30
TH039-RC1	0.06
TH040-RC1	0.20