MAR 20060007: PELICAN MOUNTAINS

Received date: Jun 28, 2006

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ASSESSMENT REPORT

PELICAN MOUNTAINS PROJECT

PART B

PAN VENTURES LIMITED

Metallic & Industrial Permit #9302050093

Submitted by: Larry MacGougan

May 10, 2006

Prospector: Larry MacGougan

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PART C

Statement of Expenditures

Metallic & Industrial Minerals Permit No. 9302050093

DESCRIPTION	COST	TOTAL COST
Salary and Wages		
*Prospector labor & supervision ([redacted]		[redacted]
*Lab work ([redacted]		
Prospector assistants: Chris Puckett ([redacted]		
* Debbie MacGougan [redacted]		
		/13,000
Field Costs		
Mileage (fuel included) - 2080 kms @ $75 per km x 2 trucks	3,120.00	3,120.00
Rental Equipment		
Field Equipment Rental: Two Quads (11 days @ $80 per day)	1,760.00	1,760.00
*Geophysical Equipment: Ground mag. (11 days @$150 per day)	1,650.00	1,650.00
GRAND TOTAL		**$19,530.00**

*Prospector wages include food and camping supplies; tools such as: auger, shovels, axes, picks, crowbar, and large knife. Also (3) compass, (3) walkie talkies, (3) whistles, field magnifying glass and maps.
* Included in this salary is report preparation: computer, printer and copying costs such as printing cartridges (black & color) and paper.
*Lab includes lab equipment, supplies and chemicals
*Ground magnetometer includes a light plant for charging and additional instruments.

I certify that these expenditures are valid and were incurred in conducting assessment work on the above permit.

Signed: [redacted]

Signature/Stamp: Lorri McLeod

Commissioner for Oaths

LORRI McLEOD
Commissioner for Oaths in Alberta
Expiry Date April 4, 2006

May 10, 2006

INTRODUCTION

This assessment work report is being submitted for Metallic and Industrial permit #9302050093.

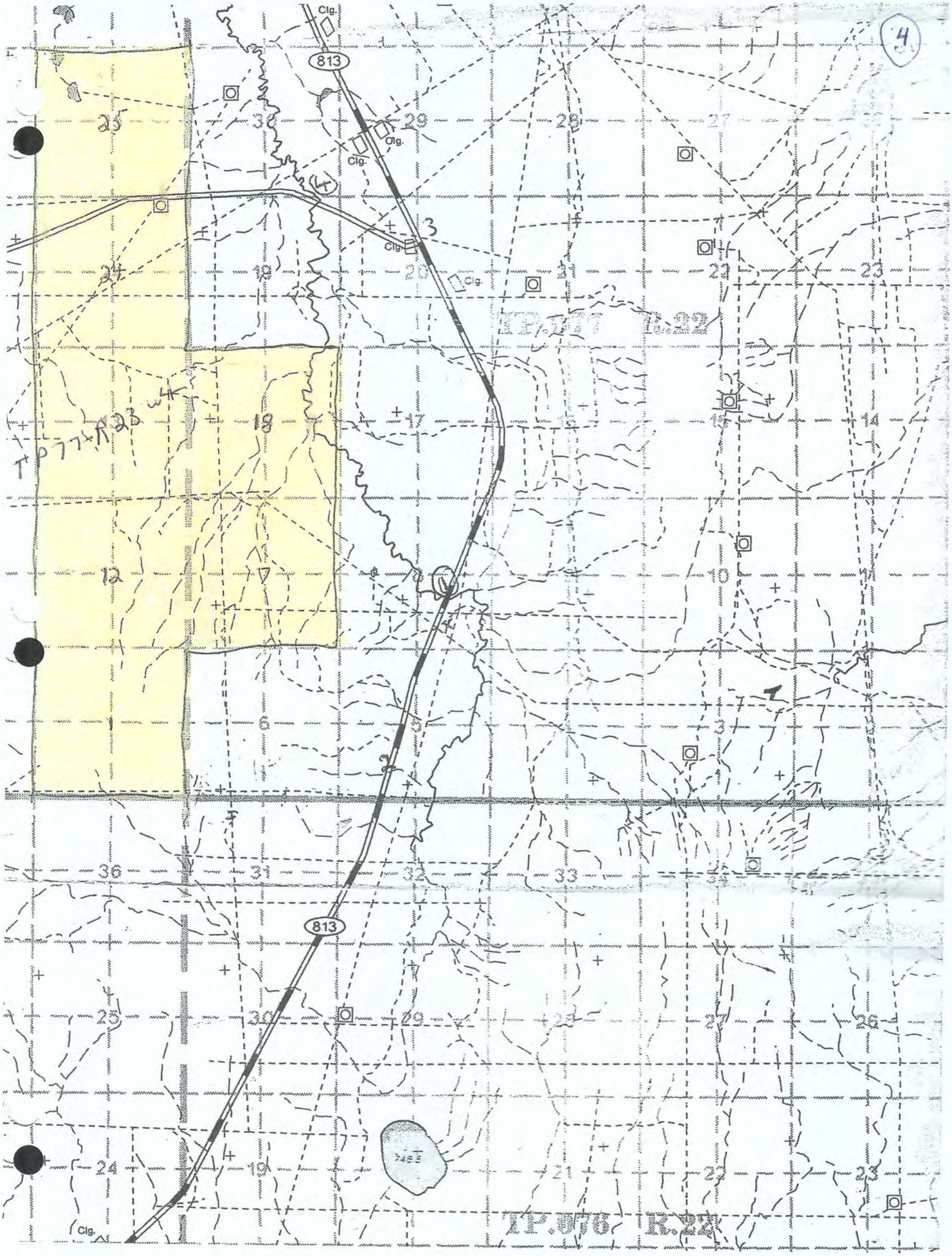
Location (M-RG-TWP-SC)
4-22-077: 07;18
4-23-077: 01;12-13; 24-25

Permit #9302050093 was first issued May 14, 2002. In 2004, the first work assessment report was completed to retain the land for another two years. Due date for the permit is May 14, 2006. Pan Ventures Limited wishes to retain the permit for another two year term by filing a second assessment report.

This permit was staked in the Pelican Mountains, located in central northern Alberta, for their heavy mineral potential. This area is also known for anomalous concentrations of diamond indicator minerals and reported diamond occurrences.

Prospector Larry MacGougan and assistants Chris Puckett and Debbie MacGougan conducted the exploration involving till and stream sampling, ground geophysics, and auger drilling. Surface collection caused none to minimal disturbance in the course of work and recovery.

The principal objective of permitting the land was to locate and test heavy mineral bearing sands and rocks. During the two-year period 2004 - 2006 two trips were taken to the permit. Several prospective spots were discovered with occasional outcrops and stream cuts. All samples were transported back to Coronation, some were searched for their metal and diamond indicator mineral content.


4
Clg.
813
TP.077 R.22
TP77 R23 w4
TP.076 R.22
813
Clg.

PERMIT TABULATION

Metallic and Industrial Permit #9302050093 is 100% owned by Pan Ventures Ltd. The permit consists of an aggregated area of 1,792 hectares in two partial townships. The person submitting the work assessment report is Larry MacGougan.

LEGAL PERMIT DESCRIPTION

Permit no.	Date issued	Expiry Date	Size (ha)	Location (M-RG-TWP-SC)
9302050093	2002-05-14	2006-05-14	1700	4-22-077: 07;18 4-23-077: 01;12-13; 24-25

LOCATION AND ACCESS

Permit no. 9302050093 is located southeast of South Wabasca Lake in the Pelican Mountains area, east of Smoky River, and 40 kms north of Calling Lake and approximately 100 kms north of the town of Athabasca. Access to the area was gained by via Highway 813, property less than 2 kms off the highway, with access of a high grade road right to the permit boundary and past. The permit is approximately 60 kms NE from the CNR rail-line at Smith. There is an airport 5 kms north of Athabasca and a serviced airstrip north of Calling Lake.

There are a number of gravel roads which can be used throughout the area. There is also a few seismic and cut lines crossing the permit, which can be accessed by truck seasonally and by all-terrain vehicles year round.

The Pelican Mountain permit is along the 20th base line. It is geographically centered at about 113 30' W longitude and 55 40' N latitude, and within 1:50,000 National Topographic System map areas 83/P11 and 83/P 12. The elevation of Pelican Mountain is up to 3000 m above sea level and the average elevation of the permit is approximately 2350 m above sea level.

The Pelican Mountain region is comprised of a number of extensively forested topographic peaks surrounded by flat prairie and muskeg.

Annual temperatures range from -40 C in January to 25 C in July.

REGIONAL GEOLOGY

The Pelican Mountain property lies within the Western Canadian Sedimentary Basin, along the southern flanks of the Peace River Arch. Overlaying the basement in the Pelican Mountain region is a thick sequence of Phanerozoic rocks comprised mainly of cretaceous sandstones and shales and Mississippian to Devonian carbonates and salts (Glass, 1990). There is a major Devonian fault zone that extends from as far south as Athabasca River south of Pelican Mountain and trends northeasterly throughout the Fort McKay area (Martin & Jamin, 1968).

The Pelican Mountains area has been influenced by at least one stage of continental glaciation associated with the Laurentide ice sheet. As a result of this effect, the bedrock within the Pelican Mountain area is covered by a veneer of till. The glacial sediments are generally thin at higher elevations with occasional bedrock exposures (Shear Minerals 2001).

There is Upper Cretaceous rocks exposed within the area of the Pelican Mountains, the strata underlying is composed of marine and non-marine sandstone, shale, siltstone, mudstone and bentonite. The Pelican Mountain permit is in the Wapiti Formation: grey, feldspathic, clayey sandstone; grey bentonitic mudstone and bentonite; scattered coal beds; nonmarine. It is surrounded by the Upper and Lower Cretaceous. The Labiche Formation consists of: dark grey shale and silty shale; ironstone partings and concretions; marine (Alberta Geological Survey Map).

WORK PERFORMED

Two trips were taken to the Pelican Mountains property in the year 2005. A magnetometer test was done on both trips. Ground magnetic surveys were conducted on Township 77 - Range 23- Section 1 - West of the 4th and Township 77 - Range 23- Section 12 - West of the 4th. There was four shovel holes, eleven auger holes, three drill hole tests; and eleven random samples grabbed. A total of 87 samples were collected.

The first trip was from May 4-9, 2005. During that time, the three-person crew camped at the work site, using the accommodation of a tent and two truck cabs. The first day was a general exploration and investigation of the property, using the quads, to target prospective areas. There was little to no vegetation growth so the area was easier to work on and easier to see. There were five days of manual drilling and sampling. The primary tools: an auger (with an extension), crowbars, shovels, picks and an ax. Samples were obtained at locations such as stream cuts, (alleged) outcrops, exposures, auger and drill holes. Location GPS readings were taken, samples of half a kilogram to 1 kilogram in size were bagged and tied. In total, 53 samples were collected in six days of prospecting.

Some of the instruments used were 3 compasses, 2 GPS systems, 2 walkie talkies and whistles for communication and defense. Also maps and a field magnifying glass, large knife, etc. A light plant was used to charge the ground magnetometer's batteries.

The second trip was taken was from June 1-5, 2005. Much of what was done was a continuation of the same type of work. Different creeks and streams were sampled. Additional GPS readings were marked down on a map and are being planned for future work. In five days, 34 samples were collected. Weather hindered some of the work.

In the lab, selected samples were washed and visually examined for diamond indicator minerals under a microscope. Three days was needed for this careful and diligent observation.

Project Work Breakdown

Senior Supervisor - Larry MacGougan is a full-time prospector and is recognized as such through Revenue Canada. He has two-five years of experience in metal and mineral exploration, and has done diamond core drilling for precious metals in the Ells River area. He solely supervised the Pelican Mountain project, operated the magnetometer and auger drilled many of the holes. His services are rendered out at $500 per day. His camping equipment, food, bug spray, etc. are all supplied by him and included in his salary and services. Tools such as augers, axes, shovels, picks are his own; also the light plant, GPS systems, compasses, batteries, etc. His own truck is also used around the work sites when possible. Fuel and repair are included in mileage.

He is reponsible for selection, transportation and storage of the mineral samples.

Larry has fifteen years working with experimental assaying, with the study of the chemical makeup of metals and minerals. His lab equipment and supplies, including chemicals, are included when claimed on the expenditure statement. Lab services rendered out at $300.00 per day.

Assistant Prospector - Chris Puckett is a part-time prospector and part-time student. He has nine years experience prospecting, involving sample recovery, GPS readings, mapping and data collection. On his project Chris performed a lot manual labor with the shovel, crowbar and pick, assisting Larry with a few of the auger drilling holes. Services rendered out $300.00 per day.

Assistant Prospector - Debbie MacGougan is a part-time prospector with twenty years of experience, and has accompanied Larry on several prospecting trips. Her duties are catching samples under Larry's supervision; camp preparation and cooking at the work site. She also assists with the data collection and work assessment report preparation. Services rendered out $300.00 per day.

SAMPLES

(1.) Shovel hole #1: **LDM-01** Stream side- Pick & Crowbar UTM: 6169150 m N 347696 m E	0 - 4 in.	organic material
(2.) Shovel hole #1: **LDM-02** Stream side - Pick & Crowbar UTM: 6169150 m N 347696 m E	4 in - 1 ft.	sandy clay - black sand
(3.) Shovel hole #1: **LDM-03** Stream side - Pick & Crowbar UTM: 6169150 m N 347696 m E	1 ft. - 2 ft.	sandstone
(4.) Shovel hole #1: **LDM-04** Stream side - Pick & Crowbar UTM: 6169150 m N 347696 m E	2 ft. - 3.5 ft.	cemented dark sandstone magnetic
(5.) Drill hole #2: **LDM-05** UTM: 6169298 m N 347580 m E	0 - 3in.	organic material - roots
(6.) Drill hole #2: **LDM-06** UTM: 6169298 m N 347696 m N	3 in. - 1 ft.	dark gray clay layered clay easy to break
(7.) Drill hole #2: **LDM-07** UTM: 6169289 m N 347696 m E	1 ft. - 2 ft.	brown sandy clay
(8.) Drill hole #2: **LDM-08** UTM: 6169289 m N 347696 m E	2 ft. - 3 ft.	brown sandy clay rusty between layers of clay - magnetic inside when broken
(9.) Drill hole #2: **LDM-09** UTM: 6169289 m N 347696 m E	3 ft. - 4 ft.	very hard rock - some rust - parts of sandstone drilled up

(10.) Drill hole #3: **LDM-10** UTM: 6169431 m N 347511m E	0 - 2 in.	organic material
(11.) Drill hole #3: **LDM-11** UTM: 6169431 m N 347511 m E	2 in. - 1.5 ft.	sandy clay - lighter colored
(12.) Drill hole #3: **LDM-12** UTM: 6169431 m N 347511 m E	1.5 ft. - 3 ft.	gray sandy clay
(13.) Auger hole #4: **LDM-13** UTM: 6169151 m N 347690 m E	0 - 6 in.	organic material
(14.) Auger hole #4: **LDM-14** UTM: 6169151 m N 347690 m E	6 in. - 1.5 ft.	sandy brown clay
(15.) Auger hole #4: **LDM-15** UTM: 6169151 m N 347690 m E	1.5 ft. - 4 ft.	very hard sandy clay - slightly magnetic
(16.) Auger hole #4: **LDM-16** UTM: 6169151 m N 347690 m E	4 ft. - 5 ft.	brown sandy clay - very hard - slightly magnetic
(17.) Shovel hole #5: **LDM-17** By stream - Ravine UTM: 6169450 m N 347542 m E	0 - 5 in.	organic material
(18.) Shovel hole #5: **LDM-18** By stream - Ravine UTM: 6169450 m N 347542 m E	5 in. - 2 ft.	light colored sandstone
(19.) Shovel hole #5: **LDM-19** By stream - Ravine UTM: 6169450 m N 347542 m E	2 ft. - 3.5 ft.	very hard sandy clay - very rusty

(20.) Shovel hole #6: UTM: 6170301 m N 347551 m E	**LDM-20**	0 - 4 in.	organic material
(21.) Shovel hole #6: UTM: 6170301 m N 347551 m E	**LDM-21**	4 in. - 2 ft.	tan-colored clay
(22.) Shovel hole #6: UTM: 6170301 m N 347551 m E	**LDM-22**	2 ft. - 3 ft.	sandy; soft clay water
(23.) Grab sample # 7: Stream Cut UTM: 6169452 m N 347541 m E	**LDM-23**		light colored sandstone
(24.) Grab sample #8: Stream cut UTM: 6169435 m N 347601 m E	**LDM-24**		sandstone
(25.) Grab sample #9: UTM: 6169150 m N 347695 m E	**LDM-25**		darker sandstone
(26.) Grab sample #10: Stream cut UTM: 6169175 m N 347697 m E	**LDM-26**		light colored sandstone
(27.) Drill hole #11: UTM: 6169498 m N 347310 m E	**LDM-27**	0 - 6 in.	organic material
(28.) Drill hole #11: UTM: 6169498 m N 347310 m E	**LDM- 28**	6 in. - 2 ft.	sticky clay
(29.) Drill hole #11: UTM: 6169498 m N 347310 m E	**LDM-29**	2 ft. - 3.5 ft.	very rusty sandy clay

(30.) Drill hole #11: **LDM-30** UTM: 6169498 m N 347310 m E	3.5 ft. - 4.5 ft	brown sandy clay - rusty and magnetic
(31.) Auger hole #12: **LDM-31** High magnetic reading UTM: 6169451 m N 347510 m E	0 - 4 in.	organic material
(32.) Auger hole #12: **LDM-32** High magnetic reading UTM: 6169451 m N 347510 m E	4 in. - 1 ft.	sandy tan clay
(33.) Auger hole #12: **LDM-33** High magnetic reading UTM: 6169451 m N 347510 m E	1 ft. - 3 ft.	sandy clay (gray mixed)
(34.) Auger hole #12: **LDM-34** High magnetic reading UTM: 6169451 m N 347510 m E	3 ft. - 4 ft.	sticky gray clay - somewhat rusty
(35.) Auger hole #12: **LDM-35** High magnetic reading UTM: 6169451 m N 347510 m E	4 ft. - 6 ft	gray clay - rocks at bottom of hole
(36.) Auger hole #13: **LDM-36** UTM: 6174396 m N 347140 m E	0 - 6 in.	organic material
(37.) Auger hole #13: **LDM-37** UTM: 6174396 m N 347140 m E	6 in. - 3 ft.	brown sandy clay
(38.) Auger hole #13: **LDM-38** UTM: 6174396 m N 347140 m E	3 ft. - 6ft.	tan-colored clay

(39.) Auger hole #13: **LDM-39** UTM: 6174396 m N 347140 mE	6 ft. - 8.5 ft	gray & brown sandy clay - rusty
(40.) Auger hole #13: **LDM-40** UTM: 6174396 m N 347140 m E	8.5 ft. - 12 ft.	gray clay - specks of black
(41.) Auger hole #14: **LDM-41** UTM: 6169199 m N 347502 m E	0 - 6 in.	organic material
(42.) Auger hole #14: **LDM-42** UTM: 6169199 m N 347502 m E	6 in. - 3 ft.	soft sand
(43.) Auger hole #14: **LDM-43** UTM: 6169199 m N 347502 m E	3 ft. - 6 ft.	brown sandy clay
(44.) Auger hole #14: **LDM-44** UTM: 6169199 m N 347502 m E	6 ft. - 9 ft.	brown sandy clay - some rust color
(45.) Auger hole #14: **LDM-45** UTM: 6169199 m N 347502 m E	9 ft. - 13 ft.	brown & gray clay - very rusty
(46.) Auger hole #14: **LDM-46** UTM: 6169199 m N 347502 m E	13 ft. - 16 ft.	gray sticky clay -rock ended hole depth
(47.) Auger hole #15: **LDM-47** UTM: 6169582 m N 347283 m E	0 - 6in.	organic material
(48.) Auger hole #15: **LDM-48** UTM: 6169582 m N 347283 m E	6 in. - 4 ft.	soft sand
(49.) Auger hole #15: **LDM-49** UTM: 6169582 m N 347283 m E	4 ft - 8 ft.	tan colored sandy clay

(50.) Auger hole #15: **LDM-50** UTM: 6169582 m N 347283 m E	8 ft. - 12 ft.	sandy brown clay
(51.) Auger hole #15: **LDM-51** UTM: 6169582 m N 347283 m E	12 ft. - 15 ft.	gray clay
(52.) Auger hole #16: **LDM-52** UTM: 6169510 m N 347310 m E	0 - 6 in.	organic material
(53.) Auger hole #16: **LDM-53** UTM: 6169510 m N 347310 m E	6 in. - 4.5 ft	sand
(54.) Auger hole #16: **LDM-54** UTM: 6169510 m N 347310 m E	4.5 ft. - 8 ft.	brown sandy clay
(55.) Auger hole #16: **LDM-55** UTM: 6169510 m N 347310 m E	8 ft. - 12 ft.	brown sandy clay
(56.) Auger hole #16: **LDM-56** UTM: 6169510 m N 347310 m E	12 ft. - 16 ft.	brown sandy clay - gray clay
(57.) Auger hole #16: **LDM-57** UTM: 6169510 m N 347310 m E	16 ft. - 20 ft.	gray clay - rusty
(58.) Auger hole #16: **LDM-58** UTM: 6169510 m N 347310 m E	20 ft. - 24 ft.	dark gray clay - rocks
(59.) Auger hole #17: **LDM-59** UTM: 6169425 m N 347422 E	0 - 6 in.	organic material
(60.) Auger hole #17: **LDM-60** UTM: 6169425 m N 347422 m E	6 in. - 3 ft.	soft sand

(61.) Auger hole #17: **LDM-61** UTM: 6169425 m N 347422 m E	3 ft. - 7.5 ft	tan sandy clay
(62.) Auger hole #17: **LDM-62** UTM: 6169425 m N 347422 m E	7.5 ft. - 12 ft.	brown sandy clay - coal-like material
(63.) Auger hole #17: **LDM-63** UTM: 6169425 m N 347422 m E	12 ft. - 15 ft.	brown sandy clay
(64.) Auger hole #17: **LDM-64** UTM: 6169425 m N 347422 m E	15 ft. - 18 ft.	brown clay - very rusty
(65.) Grab sample#18: **LDM-65** Pond - with no growth around UTM: 6170229 m N 348280 m E		unusual point of interest - salty smell - looked like a salt pond
(66.) Grab sample #19: **LDM-66** Stream cut UTM: 6169604 m N 347945 mE		coal-like material
(67.) Grab sample#20: **LDM-67** Stream UTM: 6169110 m N 347946 m E		iron clay layer
(68.) Auger hole #21: **LDM-68** Big hilltop- slumped 85 slant UTM: 6168550 m N 347550 m E	0 - 6 in.	organic material
(69.) Auger hole #21: **LDM-69** Big hilltop - slumped 85 slant UTM: 6168550 m N 347550 m E	6 in. - 10 ft.	light gray, very sticky clay
(70.) Auger hole #21: **LDM-70** Big hilltop - slumped 85 slant UTM: 6168550 m N 347550 m E	10 ft. - 11 ft.	till rocks; rocky

(71.) Shovel hole #22: **LDM-71** Very tall and odd-shaped hill UTM: 6168901 m N 347650 m E	0 - 6 in.	organic material
(72.) Shovel hole #22: **LDM-72** Very tall and odd-shaped hill UTM: 6168901 m N 347650 m E	6 in. - 2.5 ft.	light sticky clay - big rocks
(73.) Grab sample #23: **LDM-73** Stream cut UTM: 6169325 m N 347550 m E		brown sandstone
(74.) Grab sample #24: **LDM-74** Stream UTM: 6169451 m N 347551 m E		brown sandstone
(75.)Grab sample #25: **LDM-75** Stream UTM: 6169150 m N 347696 m E		brown sandstone - some darker sandstone
(76.)Grab sample #26: **LDM-76** Stream UTM: 6169450 m N 347542 m E		brown sandstone - looks like outcrop or cut
(77.)Stream sample#27: **LDM-77** Crowbar UTM: 6170035 m N 348202 m E	1.5 ft. thick	ironstained clay - coal looking matter
(78.) Shovel hole #28: **LDM-78** By stream UTM: 6169031 m N 348206 m E	1 ft - 4 ft.	light sandstone (soft) - some rusty spots
(79.) Auger hole #29: **LDM-79** UTM: 6168080 m N 347557 m E	0 - 3 in.	organic material

(80.) Auger hole #29: **LDM-80** UTM: 6168080 m N 347557 m E	3 in. - 4 ft.	rusty sticky clay - light brown
(81.) Auger hole #30: **LDM-81** By small stream UTM: 6168076 m N 347535 m E	0 - 6 in.	organic material
(82.) Auger hole #30: **LDM-82** By small stream UTM: 6168076 m N 347535 m E	6 in. - 1 ft.	black, rotten organic matter.
(83.)Auger hole #30: **LDM-83** By small stream UTM: 6168076 m N 347535 m E	1 ft. - 2 ft.	brown sand
(84.) Auger hole #30: **LDM-84** By small stream UTM: 6168076 m N 347535 m E	2 ft. -	rocks
(85.) Auger hole #31: **LDM-85** UTM: 6168022 m N 347598 m E	0 - 6 in.	organic material
(86.) Auger hole #31: **LDM-86** UTM: 6168022 m N 347598 m E	6 in. - 4.5 ft	light brown sticky clay - sand stringers
(87.) Auger hole #31: **LDM-87** UTM: 6168022 m N 347598 m E	4.5 in -	rocks

SUMMARY

Permit #9302050093 was acquired for the purpose of collecting and processing heavy mineral bearing sands and rocks. This particular area is known for its black magnetic sands.

This assessment report summarizes the exploration efforts carried out by prospector Larry MacGougan and assistants Chris Puckett and Debbie MacGougan. The majority of their work was fieldwork, comprised of reconnaissance prospecting, auger drilling, ground geophysic work, stream sediment and glacier till sampling. The main expenditures incurred during these two trips were equipment rental - two trucks, two quads, ground magnetometer, and light plant, and the time utilized for the extensive manual labor, such as auger drill hole sampling, involved in retrieving the 87 samples. No mechanized exploration equipment was used during these trips.

In the lab, washed samples were picked and probed under a microscope, visually checked for diamond indictor minerals. Only pyrite, black sand, clay, and quartz were of interest. Some samples had some coal particles. Nothing significant was found. Some of the higher magnetic reading concentrates were experimentally tested to study the physical properties of the area's mineralogy, for a better understanding of the metals and minerals that might be there.

CONCLUSIONS AND RECOMMENDATIONS

In the year 2005, two trips were taken to the Pelican Mountains permit no. 9302050093, and a total of 87 samples were recovered. Even though there were no diamond indicator minerals found such as pyrope garnets or chrome diopsides, there were samples of interest. Noted on the ground magnetic survey on Page 10 - a dark magnetic sand stone sample location UTM 6169150 N and 347696 E, reading of 58482, along a stream cut. One point of interest was a pond, white and with no growth around it, smelling of salt.

Previous work done in the first work assessment report on the permit showing the presence of mineral and metal occurrences, the permit's accessibility of Highway 813 (less than 2 kms away), shallow overburden and the capability of doing fieldwork year round, are all reasons to continue exploration work. May and June were ideal times to explore and to use the magnetometer, before the new growth of vegetation.

Further ground geophysics surveying should be completed for future use. More prospective areas should be examined, for bedrock and outcrops, which may expose any heavy magnetic sand or rock, with the possibility of magnetite or titanium concentrates. There also could be metals such as iron, nickel, rutile, ilmenite, etc.

AUTHOR

Larry MacGougan is the author of "Assessment Report Permit No.9302050093, Pelican Mountains Project."

The data of this report is based on the work compiled and performed on the permit by him in May and June of 2005. He has twenty-five years of prospecting experience, and has submitted and filed other work assessment reports for Pan Ventures Limited, and for permits of his own.

He was senior supervisor for the entire Pelican Mountains project . All work, involving the ground magnetic surveying, sample recovery and preparation of this report, was completed by him or under his supervision.

[redacted]

Larry MacGougan

ASSESSMENT REPORT

PELICAN MOUNTAINS PROJECT

PART C

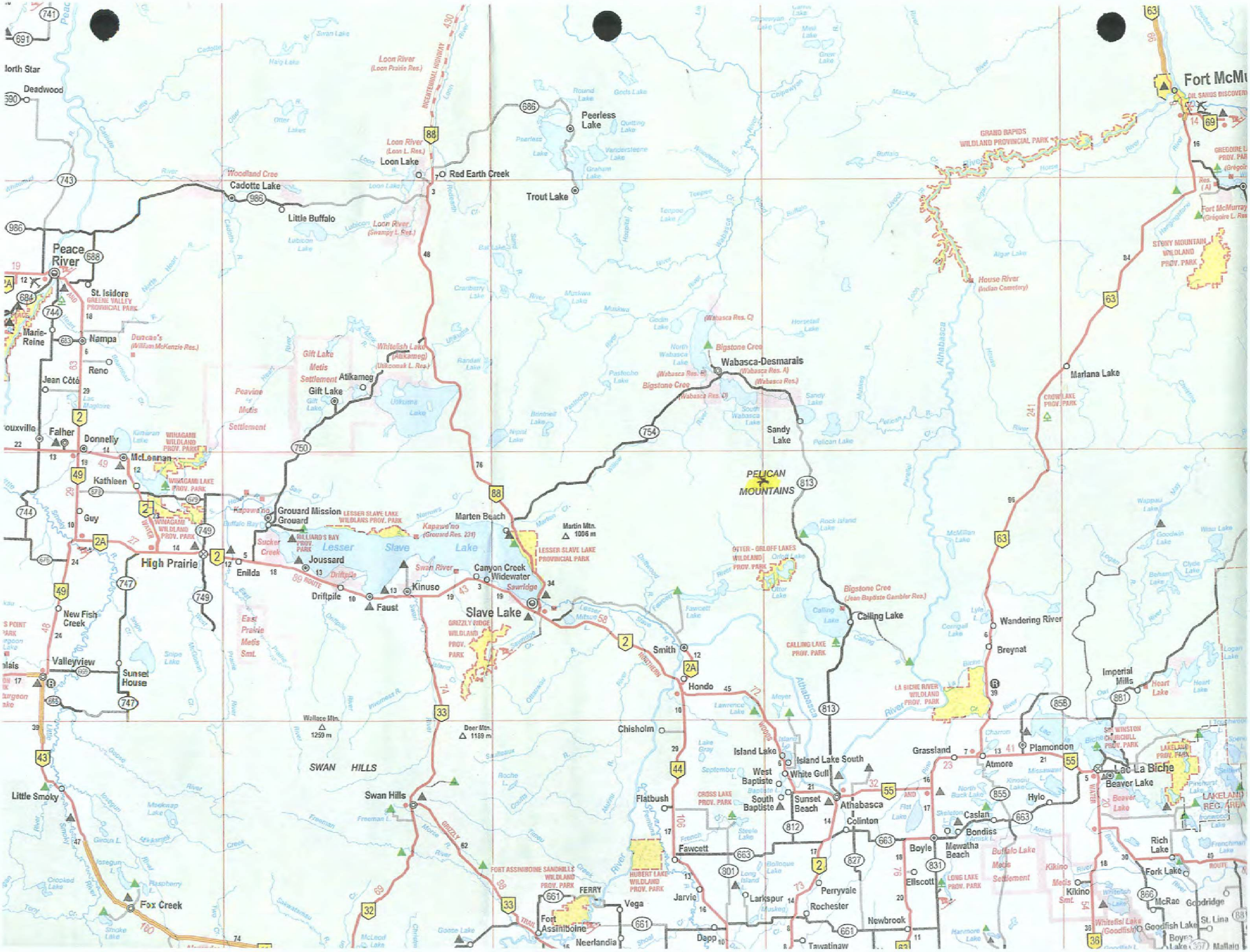
PAN VENTURES LIMITED

Metallic & Industrial Permit #9302050093

Submitted by: Larry MacGougan

May 10, 2006

Prospector: Larry MacGougan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Deadwood
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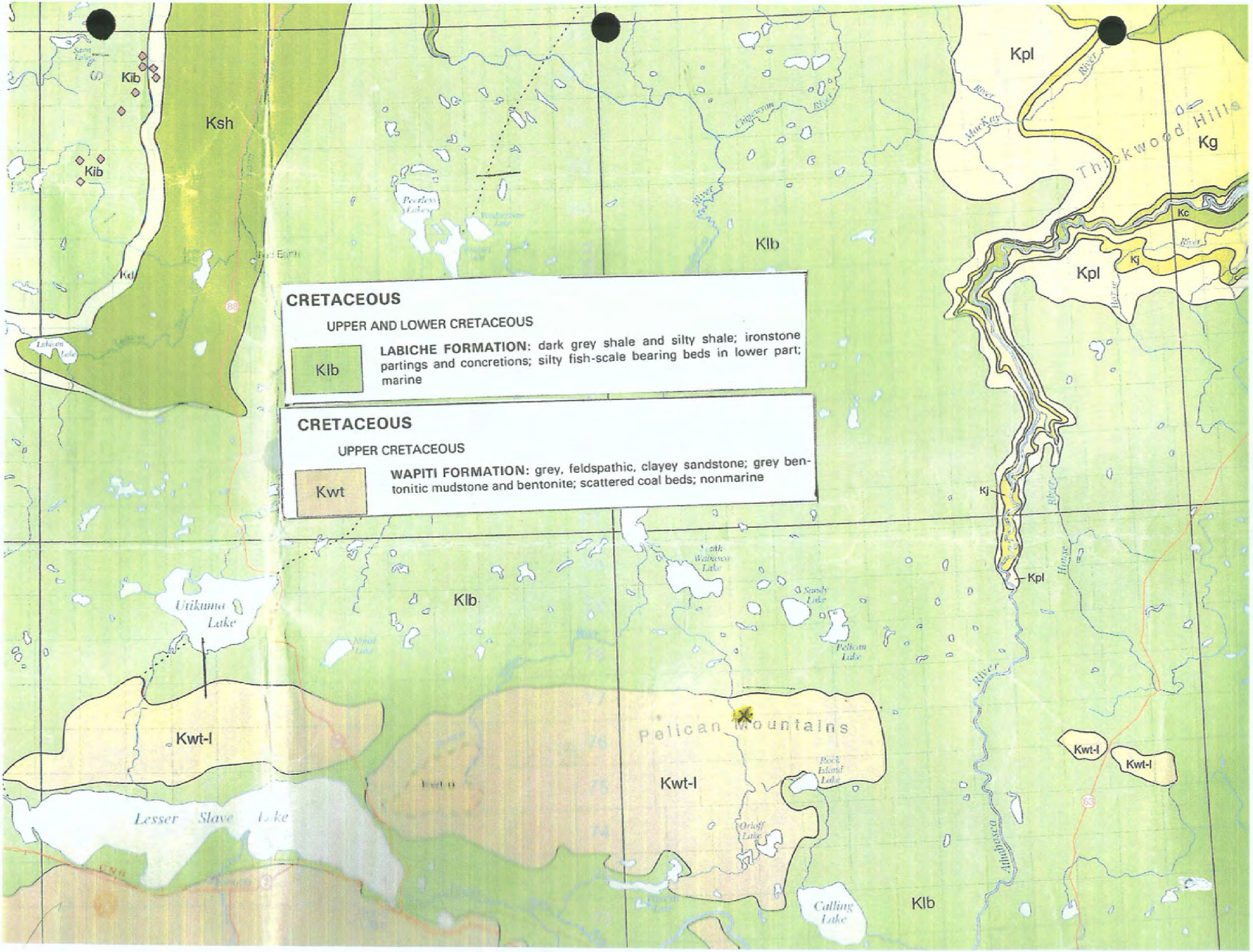
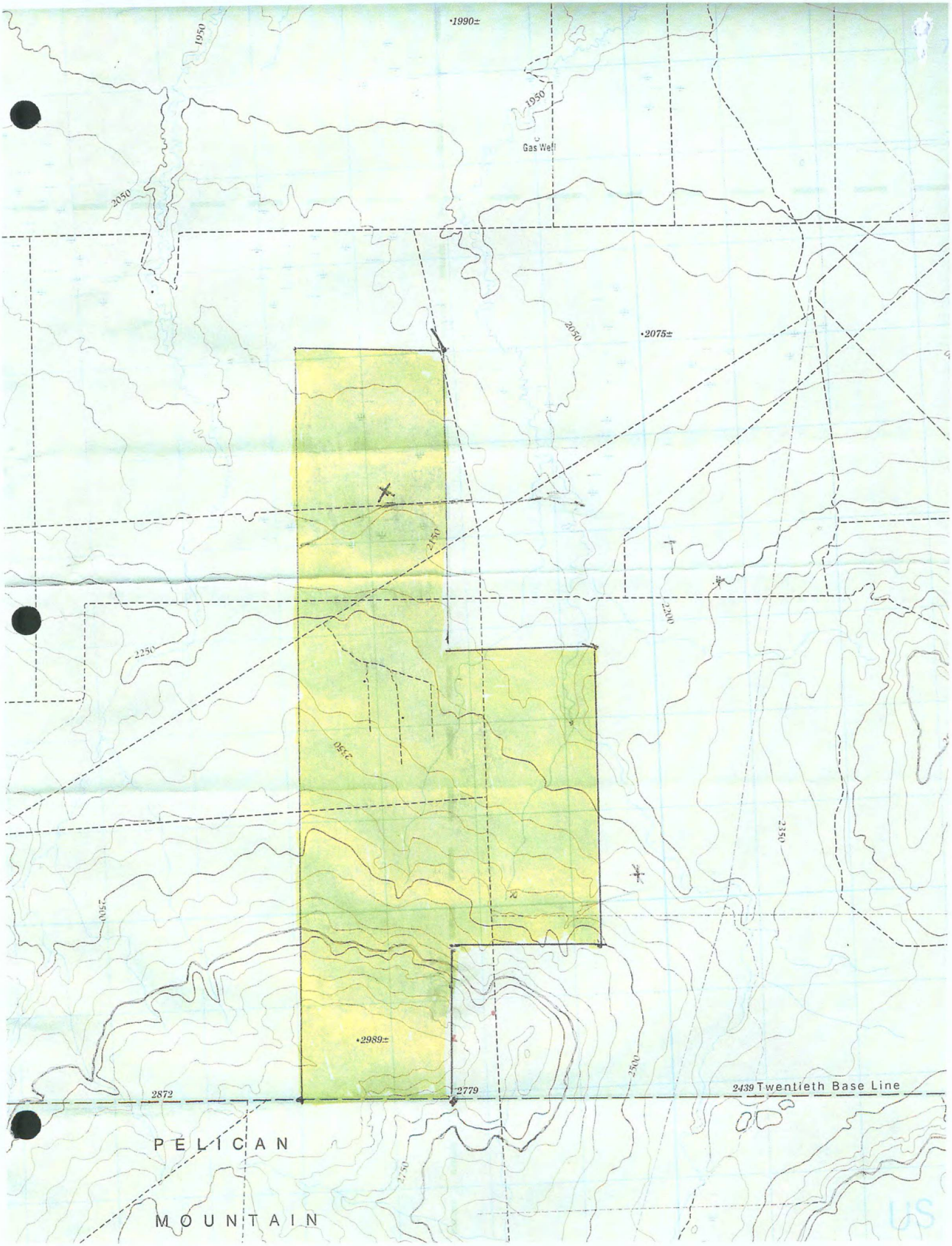
St. Isidore
GREENE VALLEY PROVINCIAL PARK
Marie-Reine
Nampa
Reno
Jean Côté
Falher
Donnelly
McLennan
Kathleen
Guy
High Prairie
WINAGAMI WILDLAND PROV. PARK
WINAGAMI LAKE PROV. PARK
Enilda
Grouard Mission
Grouard
LESSER SLAVE LAKE WILDLAND PROV. PARK
HILLIARD'S BAY PROV. PARK
Lesser Slave Lake
Joussard
Driftpile
Faust
Kinuso
Swan River
Canyon Creek
Widewater
Sawridge
Slave Lake
Marten Beach
LESSER SLAVE LAKE PROVINCIAL PARK
GRIZZLY RIDGE WILDLAND PROV. PARK
New Fish Creek
Valleyview
Sunset House
Little Smoky
Fox Creek
Swan Hills
SWAN HILLS
Cadotte Lake
Little Buffalo
Woodland Cree
Loon Lake
Loon River
Red Earth Creek
Peerless Lake
Trout Lake
Gift Lake
Gift Lake Metis Settlement
Atikameg
Whitefish Lake (Atikameg)
Peavine Metis Settlement
East Prairie Metis Smt.
Utikuma Lake
Wabasca-Desmarais
Bigstone Cree
Sandy Lake
PELICAN MOUNTAINS
OTTER - ORLOFF LAKES WILDLAND PROV. PARK
Calling Lake
CALLING LAKE PROV. PARK
Smith
Hondo
Chisholm
Flatbush
Fawcett
Jarvie
Fort Assiniboine
FORT ASSINIBOINE SANDHILLS WILDLAND PROV. PARK
HUBERT LAKE WILDLAND PROV. PARK
CROSS LAKE PROV. PARK
Vega
Dapp
Neerlandia
Island Lake
Island Lake South
White Gull
West Baptiste
South Baptiste
Sunset Beach
Athabasca
Colinton
Larkspur
Perryvale
Rochester
Newbrook
Tawatinaw
Boyle
Ellscott
Mewatha Beach
Bondiss
Caslan
Grassland
Atmore
Plamondon
Hylo
Lac La Biche
Beaver Lake
Rich Lake
Fork Lake
McRae
Goodridge
Goodfish Lake
Boyne Lake
St. Lina
Wandering River
Breynat
Imperial Mills
LA BICHE RIVER WILDLAND PROV. PARK
SIR WINSTON CHURCHILL PROV. PARK
LAKELAND REC. AREA
Buffalo Lake Metis Settlement
Kikino Metis Smt.
Mariana Lake
CROW LAKE PROV. PARK
Fort McMurray
GRAND RAPIDS WILDLAND PROVINCIAL PARK
STONY MOUNTAIN WILDLAND PROV. PARK
House River (Indian Cemetery)
BICENTENNIAL HIGHWAY
Wallace Mtn. 1259 m
Deer Mtn. 1169 m
Martin Mtn. 1096 m


Kib
Ksh
Kib
Kpl
Kg
Thickwood Hills
Kc
Kj
Kpl
Klb
Kwt-l
Pelican Mountains
Kwt-l
Kwt-l
Kwt-l
Klb
Klb
Kj
Kpl
Utikuma Lake
Lesser Slave Lake
Calling Lake
CRETACEOUS
UPPER AND LOWER CRETACEOUS
Klb
LABICHE FORMATION: dark grey shale and silty shale; ironstone partings and concretions; silty fish-scale bearing beds in lower part; marine
CRETACEOUS
UPPER CRETACEOUS
Kwt
WAPITI FORMATION: grey, feldspathic, clayey sandstone; grey bentonitic mudstone and bentonite; scattered coal beds; nonmarine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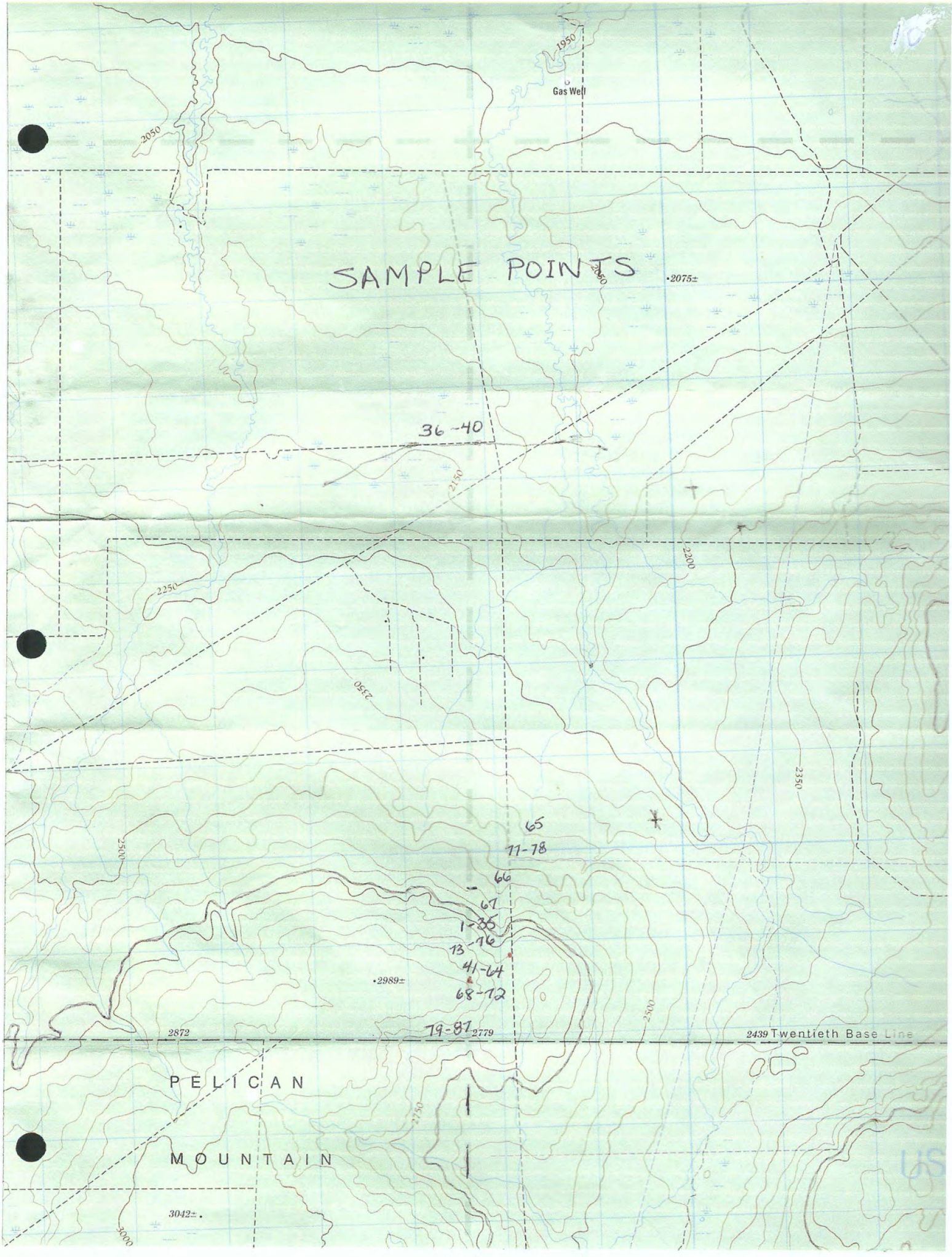
1950
1950
Gas Well
2050
2050
•2075±
2150
2250
2250
2350
2350
2500
2500
•2989±
2872
2779
2439 Twentieth Base Line
PELICAN
MOUNTAIN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1950
2050
2075±
2150
2200
2250
2350
2500
36-40
65
77-78
66
67
1-35
13-76
41-64
68-72
79-87
2989±
2872
2779
2439 Twentieth Base Line
PELICAN
MOUNTAIN
3042±
3000

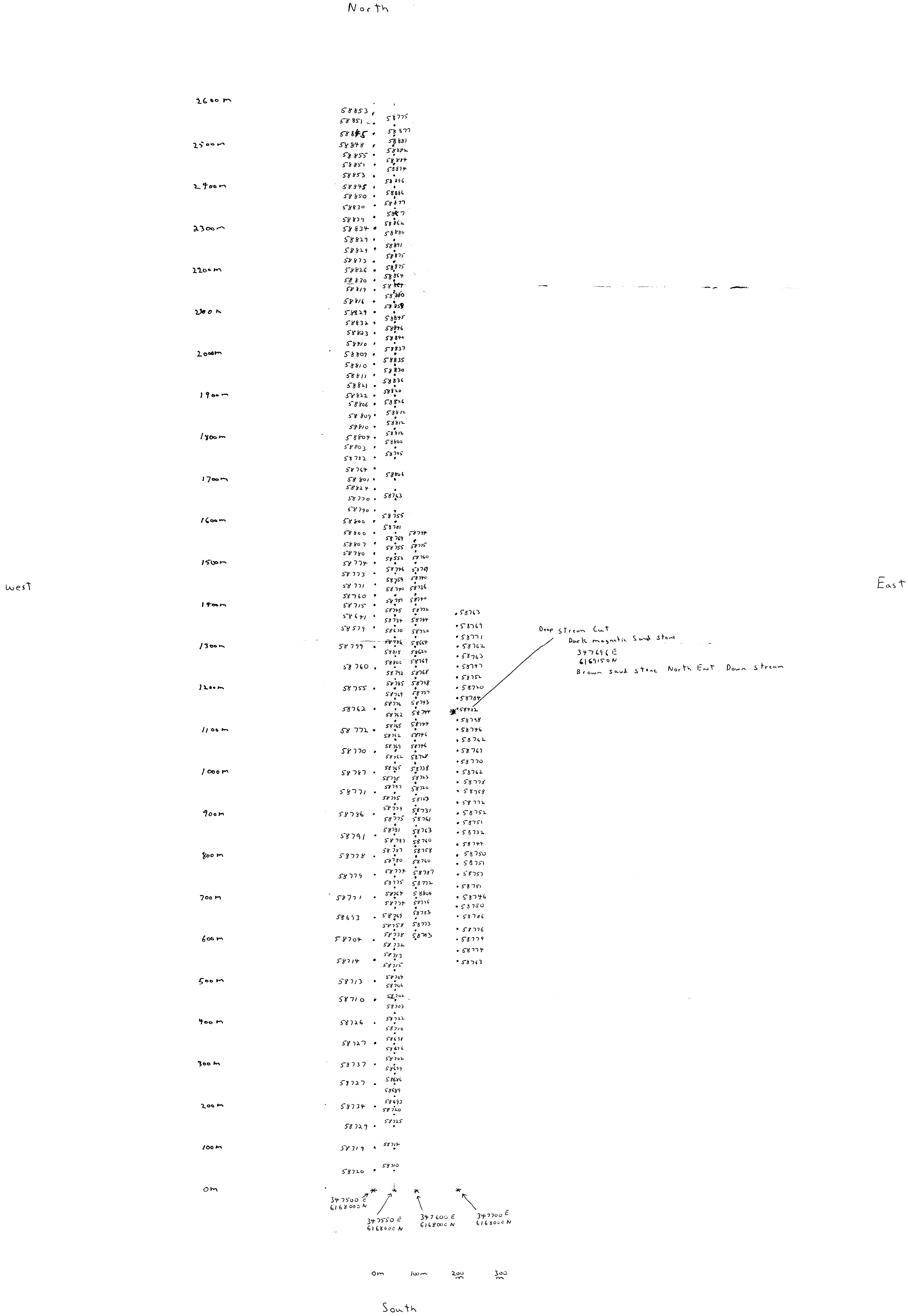
Part

Ground Magnetic Survey

Sec 1 - TP 77 - R 23 - W 4
Sec 12 - TP 77 - R 23 - W 4

347500 E To 347500 E
6168000 N 6170600 N

permit 9302050093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West
East
South
2600 m
2500 m
2400 m
2300 m
2200 m
2100 m
2000 m
1900 m
1800 m
1700 m
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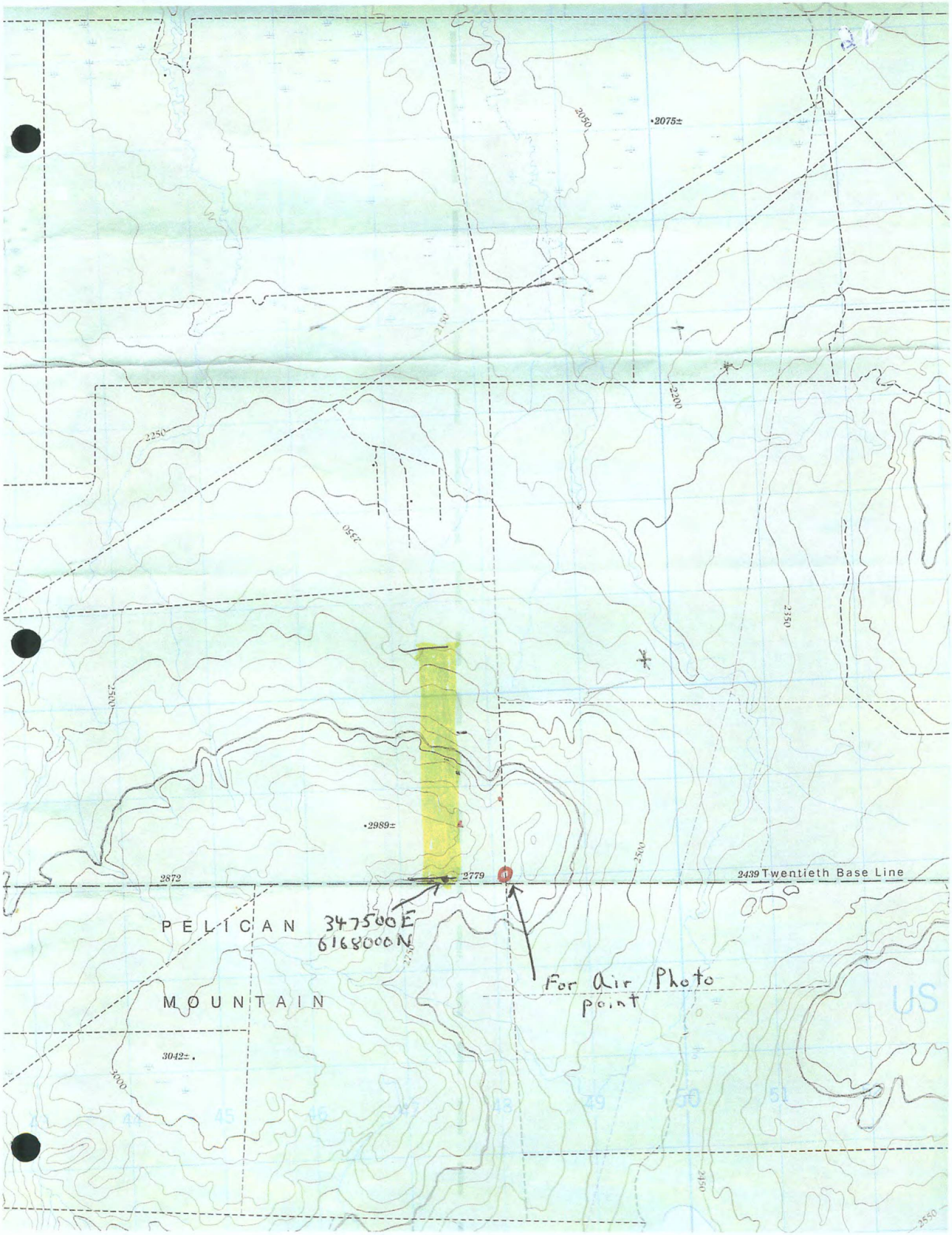
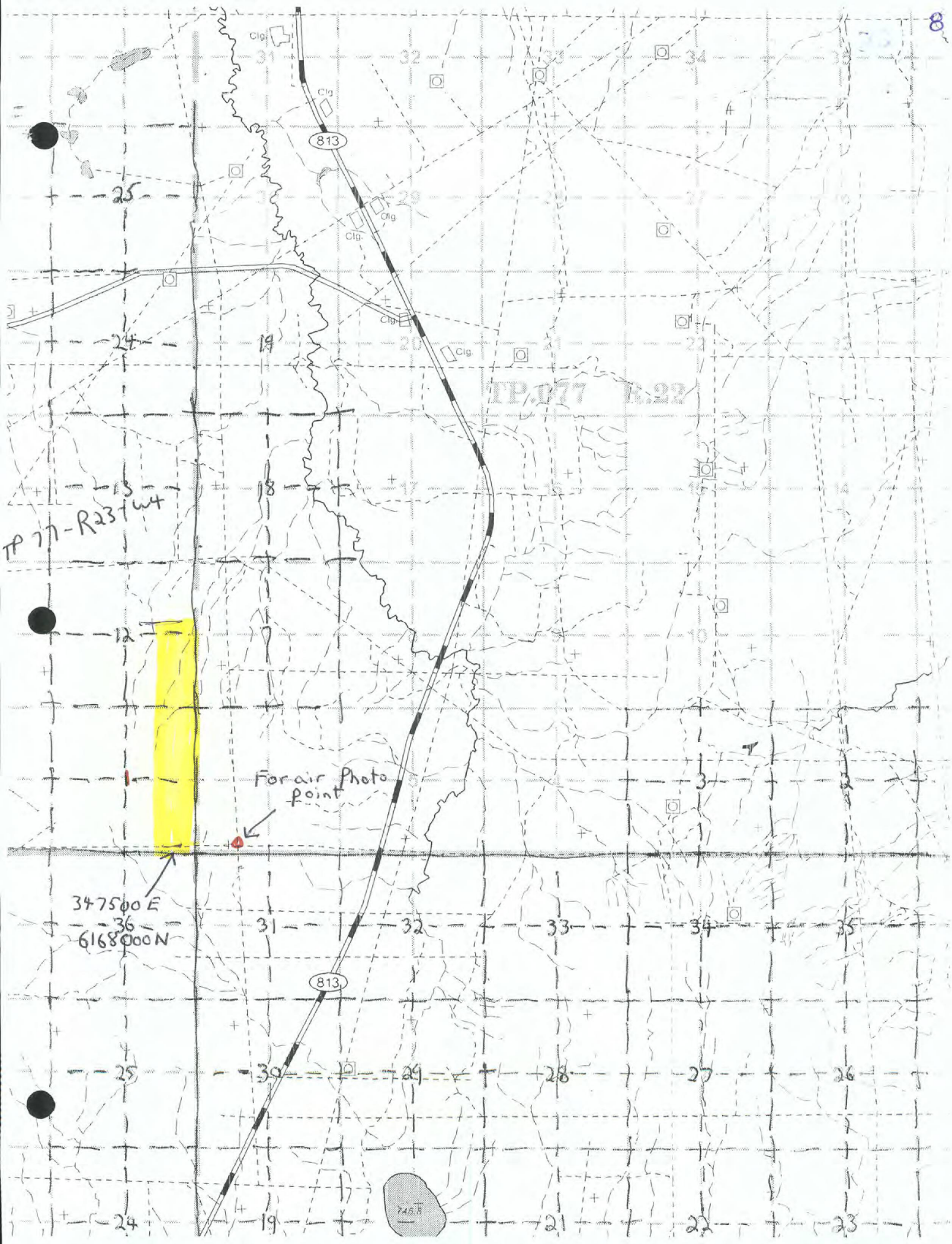
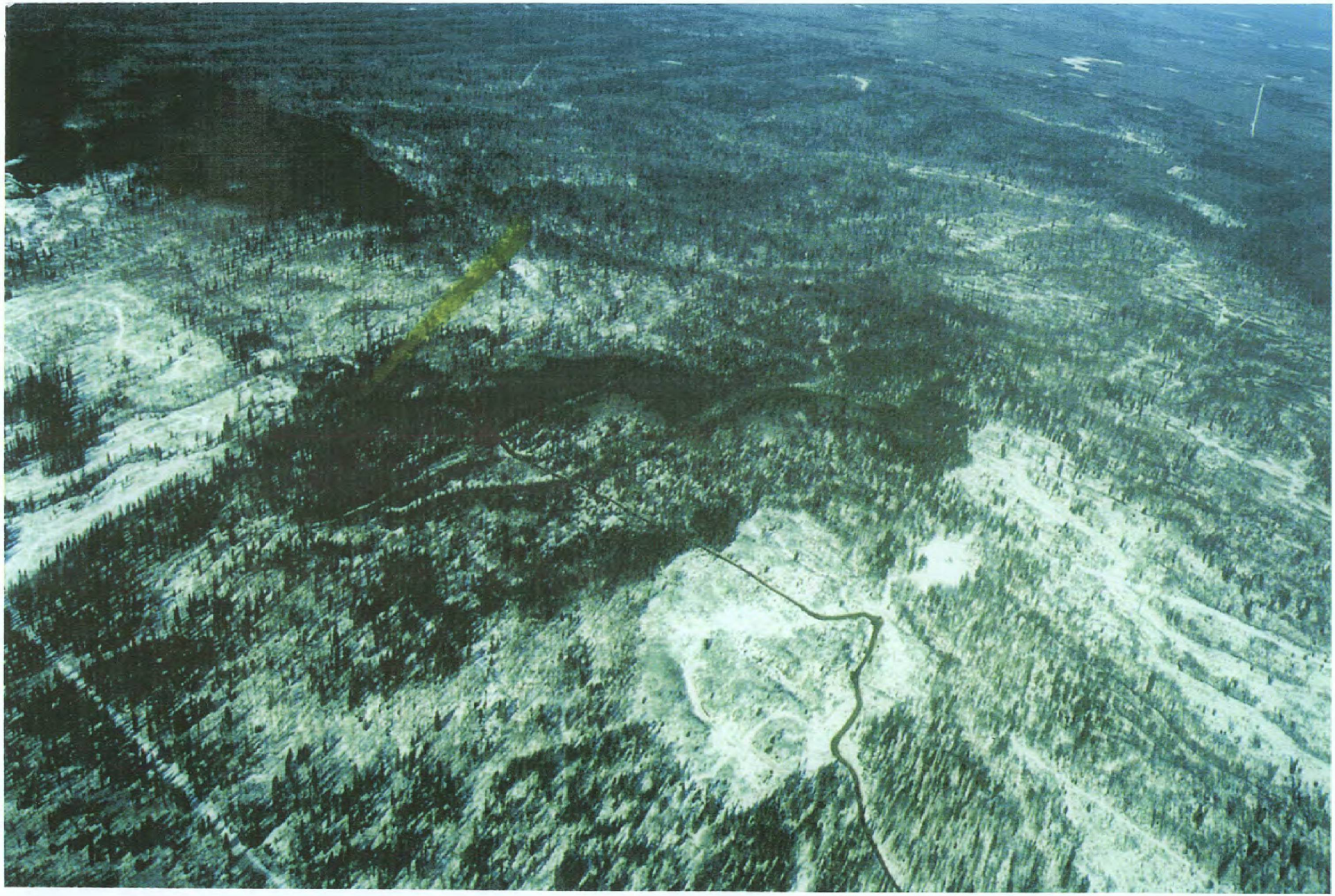
1500 m
1400 m
1300 m
1200 m
1100 m
1000 m
900 m
800 m
700 m
600 m
500 m
400 m
300 m
200 m
100 m
0 m
Deep Stream Cut
Dark magnetic Sand stone
347696 E
6169150 N
Brown sand stone North East Down stream
347500 E
6168000 N
347550 E
6168000 N
347600 E
6168000 N
347700 E
6168000 N
0m
100m
200 m
300 m


2075±
2989±
3042±
2872
2779
2439 Twentieth Base Line
PELICAN
MOUNTAIN
347500E
6168000N
For Air Photo
point


813
813
Clg.
Clg.
Clg.
Clg.
Clg.
TP.077 R.22
TP 77-R23 W4
For air Photo point
347500E
6168000N
746.8

West

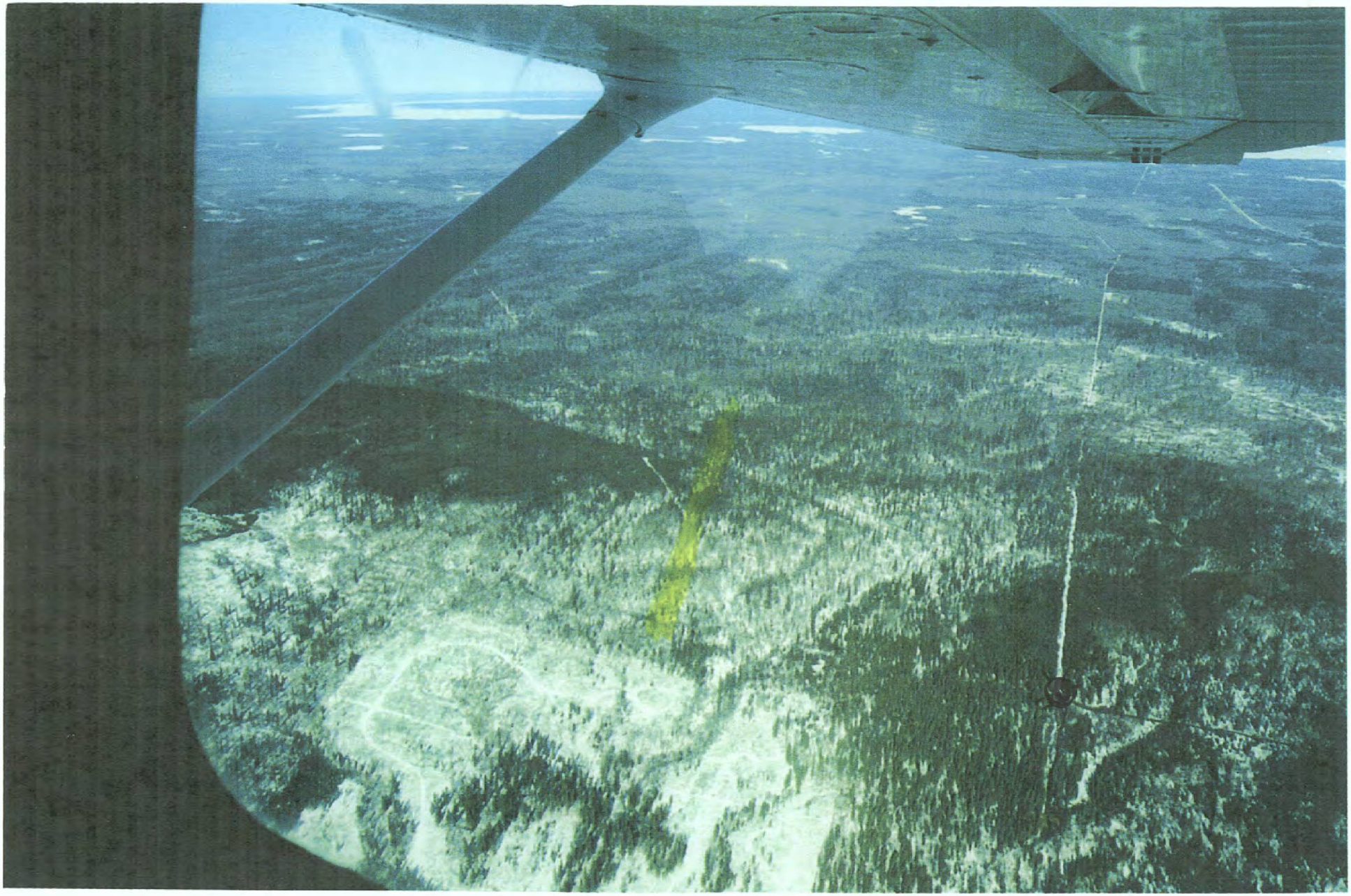
North



South

East

North

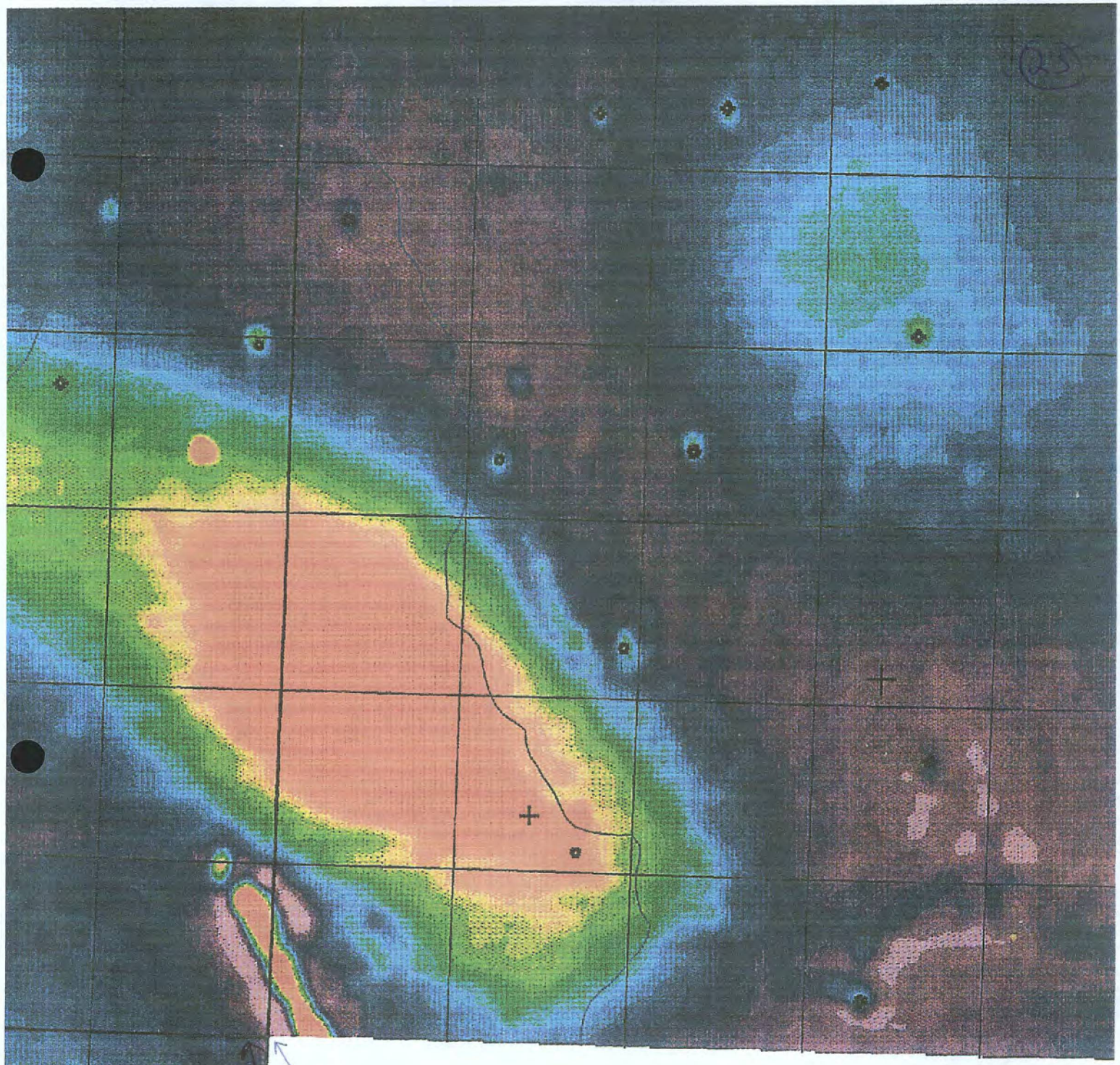


West

East

South

10



Southeast corner of sec 1 - TP 77 - R 23 - W 4

347500 E
6168000 N

SURVEY PARAMETERS

FLOWN BY: SPECTRA AVIATION SERVICES

TRAVERSE LINE SPACING: 200 METERS E/W
CONTROL LINE SPACING: 1000 METERS N/S
FLYING HEIGHT: 100 METERS DRAPE

PHOTOGRAPHS OF POINTS OF INTEREST

PHOTO	LOCATION		
1	Stream #1 -	UTM: 6169153 N 347704 E	
2	Stream #1 -	UTM: 6169163 N 347709 E	
3	Stream #1 -	UTM: 6169183 N 347717 E	
4	Stream #1 -	UTM: 6169189 N 347738 E	
5	Stream #2 -	UTM: 6169443 N 347581 E	
6	Hillside -	UTM: 6169429 N 347538 E	
7	By Stream #3 -	UTM: 617037 N 348199 E	Rusty mud clay
7	By Stream #3 -	UTM: 617037 N 348199 E	Rusty mud clay

13

1

2

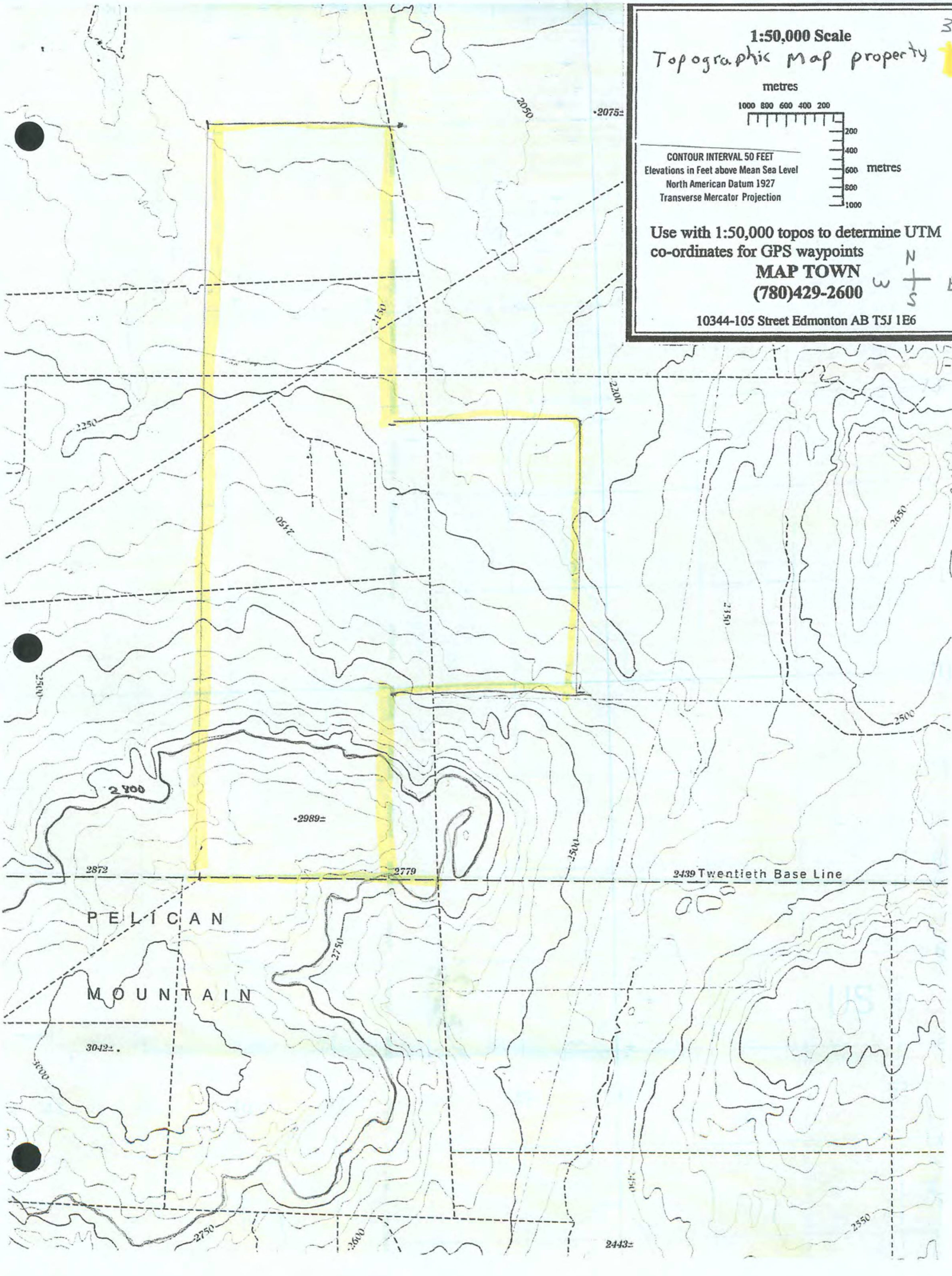
3

4

5

6

16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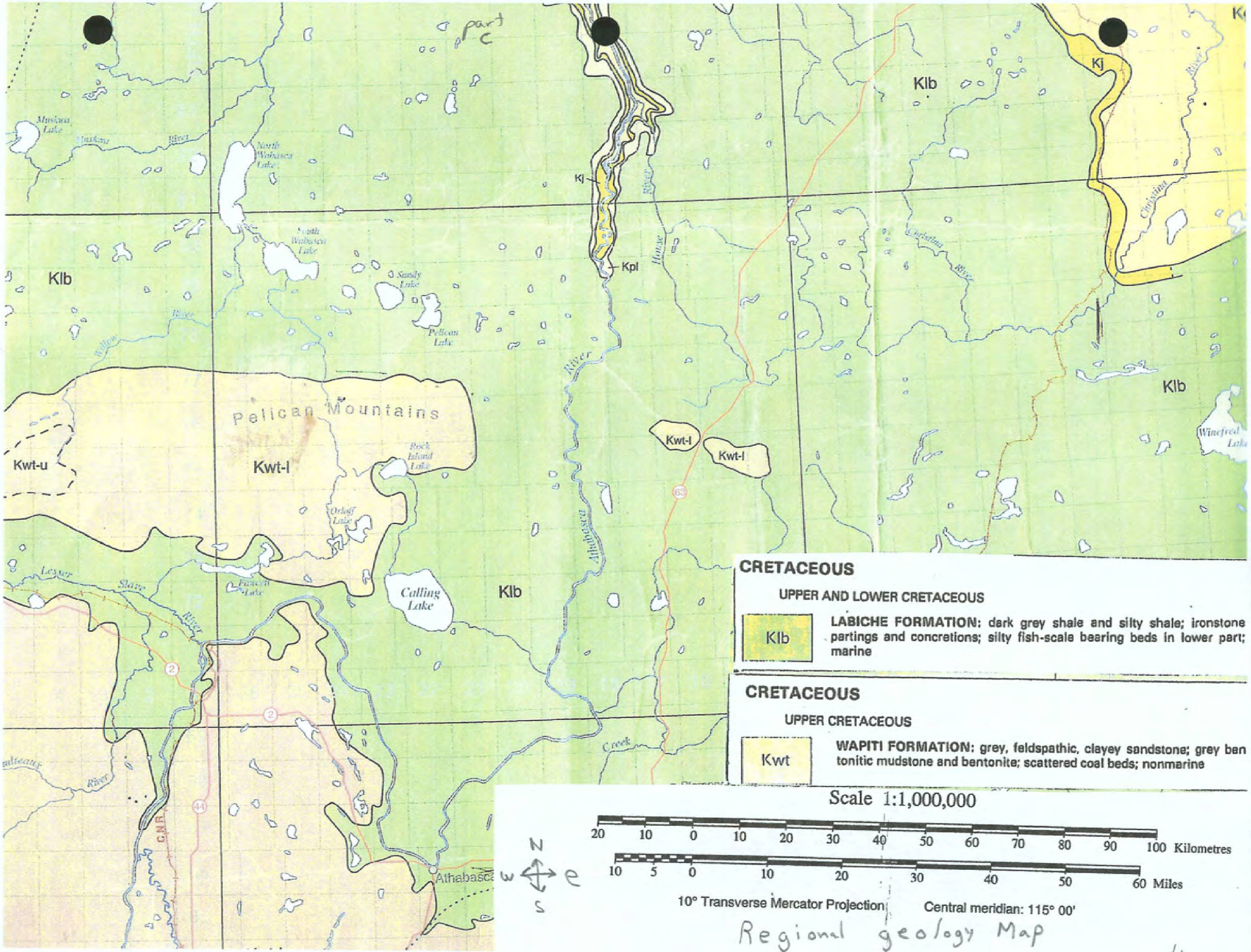
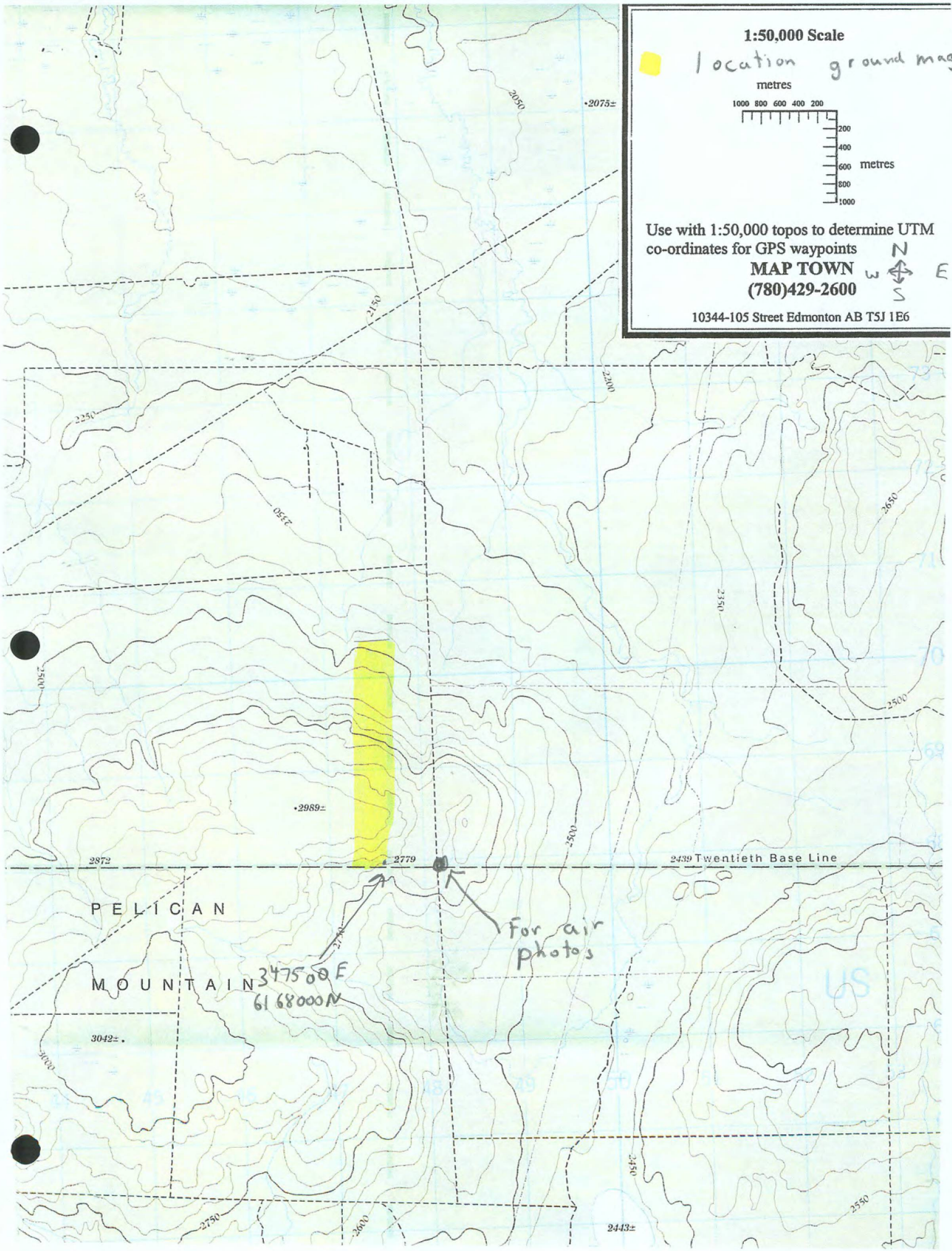
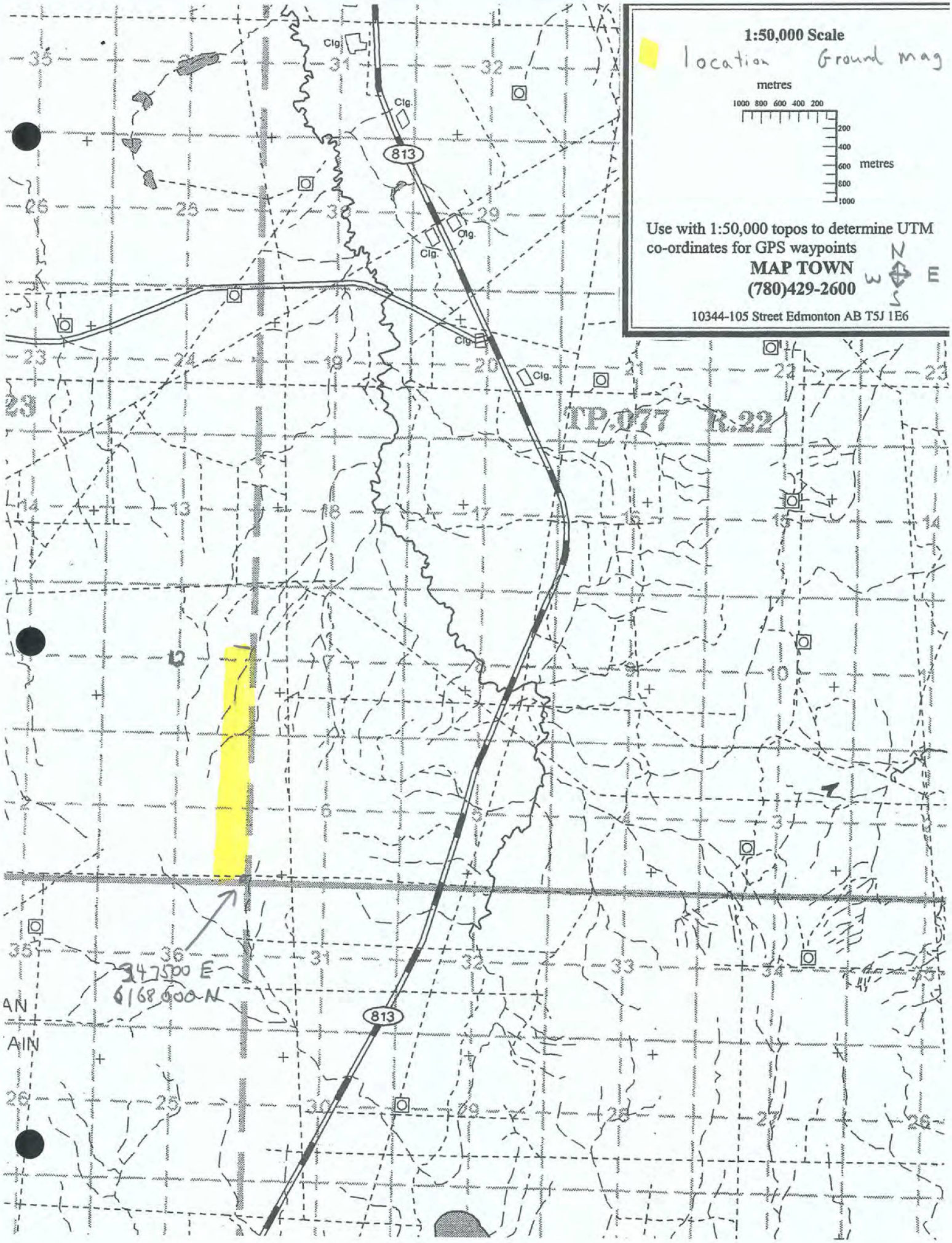
Topographic Map property
metres
1000 800 600 400 200
200
400
600 metres
800
1000
CONTOUR INTERVAL 50 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection
Use with 1:50,000 topos to determine UTM co-ordinates for GPS waypoints
MAP TOWN
(780)429-2600
10344-105 Street Edmonton AB T5J 1E6
N
W
E
S
2050
•2075±
2150
2200
2250
2650
2500
2400
•2989±
2872
2779
2439 Twentieth Base Line
PELICAN
MOUNTAIN
2750
3042±.
3000
2750
2600
2443±
2550



Regional geology Map


1:50,000 Scale
location ground mag
metres
1000 800 600 400 200
200
400
600 metres
800
1000
Use with 1:50,000 topos to determine UTM co-ordinates for GPS waypoints
MAP TOWN
(780)429-2600
10344-105 Street Edmonton AB T5J 1E6
N
W
E
S
2075±
2050
2150
2200
2250
2350
2650
2500
2989±
2872
2779
2439 Twentieth Base Line
PELICAN
MOUNTAIN
347500E
6168000N
For air photos
3042±
2750
2600
2443±
2550


1:50,000 Scale
location Ground mag
metres
1000 800 600 400 200
200
400
600 metres
800
1000
Use with 1:50,000 topos to determine UTM co-ordinates for GPS waypoints
MAP TOWN
(780)429-2600
10344-105 Street Edmonton AB T5J 1E6
N
W
E
S
TP.077 R.22
813
Clg.
347500 E
6168000 N

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PART B

PAGE

PART C

PERMIT TABULATION

Metallic and Industrial Permit #9302050093 is 100% owned by Pan Ventures Ltd. The permit consists of an aggregated area of 1,792 hectares in two partial townships. The person submitting the work assessment report is Larry MacGougan.

LEGAL PERMIT DESCRIPTION

Permit no.	Date issued	Expiry Date	Size (ha)	Location (M-RG-TWP-SC)
9302050093	2002-05-14	2006-05-14	1700	4-22-077: 07;18 4-23-077: 01;12-13; 24-25

LOCATION AND ACCESS

Permit no. 9302050093 is located southeast of South Wabasca Lake in the Pelican Mountains area, east of Smoky River, and 40 kms north of Calling Lake and approximately 100 kms north of the town of Athabasca. Access to the area was gained by via Highway 813, property less than 2 kms off the highway, with access of a high grade road right to the permit boundary and past. The permit is approximately 60 kms NE from the CNR rail-line at Smith. There is an airport 5 kms north of Athabasca and a serviced airstrip north of Calling Lake.

There are a number of gravel roads which can be used throughout the area. There is also a few seismic and cut lines crossing the permit, which can be accessed by truck seasonally and by all-terrain vehicles year round.

The Pelican Mountain permit is along the 20th base line. It is geographically centered at about 113 30' W longitude and 55 40' N latitude, and within 1:50,000 National Topographic System map areas 83/P11 and 83/P 12. The elevation of Pelican Mountain is up to 3000 ft above sea level and the average elevation of the permit is approximately 2350 ft. above sea level.

The Pelican Mountain region is comprised of a number of extensively forested topographic peaks surrounded by flat prairie and muskeg.

Annual temperatures range from -40 C in January to 25 C in July.

REGIONAL GEOLOGY

The Pelican Mountain property lies within the Western Canadian Sedimentary Basin, along the southern flanks of the Peace River Arch. Overlaying the basement in the Pelican Mountain region is a thick sequence of Phanerozoic rocks comprised mainly of cretaceous sandstones and shales and Mississippian to Devonian carbonates and salts (Glass, 1990). There is a major Devonian fault zone that extends from as far south as Athabasca River south of Pelican Mountain and trends northeasterly throughout the Fort McKay area (Martin & Jamin, 1968).

The Pelican Mountains area has been influenced by at least one stage of continental glaciation associated with the Laurentide ice sheet. As a result of this effect, the bedrock within the Pelican Mountain area is covered by a veneer of till. The glacial sediments are generally thin at higher elevations with occasional bedrock exposures (Shear Minerals 2001).

There is Upper Cretaceous rocks exposed within the area of the Pelican Mountains, the strata underlying is composed of marine and non-marine sandstone, shale, siltstone, mudstone and bentonite. The Pelican Mountain permit is in the Wapiti Formation: grey, feldspathic, clayey sandstone; grey bentonitic mudstone and bentonite; scattered coal beds; nonmarine. It is surrounded by the Upper and Lower Cretaceous. The Labiche Formation consists of: dark grey shale and silty shale; ironstone partings and concretions; marine (Alberta Geological Survey Map).

WORK PERFORMED

Two trips were taken to the Pelican Mountains property in the year 2005. A magnetometer test was done on both trips. Ground magnetic surveys were conducted on Township 77 - Range 23- Section 1 - West of the 4th and Township 77 - Range 23- Section 12 - West of the 4th. There was six shovel holes, fourteen auger holes and eleven grab samples. A total of 87 samples were collected.

The first trip was from May 4-9, 2005. During that time, the three-person crew camped at the work site, using the accommodation of a tent and two truck cabs. The first day was a general exploration and investigation of the property, using the quads, to target prospective areas. There was little to no vegetation growth so the area was easier to work on and easier to see. There were five days of manual drilling and sampling. The primary tools: an auger (with an extension), crowbars, shovels, picks and an ax. Samples were obtained at locations such as stream cuts, (alleged) outcrops, exposures, auger holes. Location GPS readings were taken, samples of half a kilogram to 1 kilogram in size were bagged and tied. In total, 53 samples were collected in six days of prospecting.

AUGER HOLES, SHOVEL HOLES & GRAB SAMPLES

Sample Location NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM01-05	May 4, 2005	Shovel-Pick & Crowbar	Amt:60 gm Organic material	347696	6169150	Streamside Very deep stream cut. Black sand exposure. Depth:0-4"
LDM02-05	May 4, 2005	Shovel-Pick & Crowbar	Amt:60 gm finegrained 150-200 microns -sandy clay -black sand	347696	6169150	Streamside Very deep stream cut. Black sand exposure. Depth: 4 in.- 1 ft.
LDM03-05	May 4, 2005	Shovel-Pick & Crowbar	Amt:60 gm - blocky cemented sandstone; rusty to black in color.	347696	6169150	Streamside Very deep stream cut. Black sand exposure. Depth:1ft-2ft
LDM04-05	May 4, 2005	Shovel - Pick & Crowbar	Amt: 1 kg. blocky cemented sandstone; -black	347696	6169150	Streamside Very deep stream cut. Black sand exposure. Depth: 2ft. - 3.5ft end of hole 1 kg kept
LDM05-05	May 4, 2005	Auger hole	Amt:60 gm Organic matter; roots	347580	6169298	Higher part above 2700m Depth:0-3"
LDM06-05	May 4, 2005	Auger hole	Amt:60 gm dry; dark gray color; -layered clay easy to break	347580	6169298	200 m. NW of black sand stone exposure Depth: 3 in - 1 ft.
LDM07-05	May 4, 2005	Auger hole	Amt:60 gm - brown sandy clay; 25% meduim sand; quartz-like	347580	6169298	200 m. NW of black sand-stone exposure Depth: 1 ft.- 2 ft.

Shovel hole 1# TD 3.5

Auger hole 1# TD 4'

LDM08-05	May 4, 2005	Auger hole	Amt:60 gm - brown sandy clay; 25% medium sand; rusty between clay layers -magnetic	347580	6169289	200 m NW of black sand stone exposure Depth: 2 ft. - 3 ft. -magnetic inside when broken
LDM09-05	May 4, 2005	Auger hole	Amt:60 gm - very hard rock; some rust; partly sandstone drilled up; finegrained 150-200micron	347580	6169289	200 m NW of black sand stone exposure Depth: 3 ft. - 4 ft. -slightly magnetic end of hole
LDM10-05	May 4, 2005	Auger hole	Amt:60 gm Organic material	347511	6169431	400-500mNW of exposed black sand. Depth:0-2"
LDM11-05	May 4, 2005	Auger hole	Amt:60 gm -sandy clay 30% medium sand; light-colored	347511	6169431	400-500mNW of exposed black sand. Depth: 2 in.- 1 ft.
LDM12-05	May 4, 2005	Auger hole	Amt:60 gm 10% medium sand; gray sandy clay; finegrained 150-200micron	347511	6169431	400-500mNW of exposed black sand. Depth: 1 ft. - 3 ft. end of hole
LDM13-05	May 5, 2005	Auger hole	Amt:60 gm Organic material	347690	6169151	Stream bank top. West of black sand exposure. Depth:0-6"
LDM14-05	May 5, 2005	Auger hole	Amt:60 gm 50% medium sand; sandy brown clay	347690	6169151	Stream bank top. West of black sand exposure. 6 in.- 1.5 ft
LDM15-05	May 5, 2005	Auger hole	Amt: 60 gm 10% fine; 5% medium sand -Very hard sandy clay. Dark.	347690	6169151	Stream bank W of black sand 1.5 ft.- 4 ft. -slightly magnetic

auger hole 1#

auger hole 2#

TD 3'

auger hole 3#

TD 5'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM16-05	May 5, 2005	Auger hole	Amt:60 gm - brown sandy clay; very hard; fine grained; slightly magnetic	347690	6169151	Stream bank top. West of black sand exposure. Depth:4ft-5ft end of hole
LDM17-05	May 5, 2005	Shovel hole	Amt:60 gm Organic material	347542	6169450	By stream-Ravine Depth: 0- 5 inches
LDM18-05	May 5, 2005	Shovel hole	Amt:60 gm finegrained 150 - 200 microns; -light color -cemented sandstone.	347542	6169450	By stream-Ravine Depth: 5 in. - 2 ft. - sandstone slumped off of hill
LDM19-05	May 5, 2005	Shovel hole	Amt:60 gm -very rusty; very hard sandy clay; 25% fine-grained 150-200micron	347542	6169450	By stream-Ravine Depth: 2 ft.- 3.5 ft. end of hole
LDM20-05	May 5, 2005	Shovel hole	Amt:60 gm Organic material	347551	6170301	Trees Depth: 0 - 4 inches
LDM21-05	May 5, 2005	Shovel hole	Amt:60 gm 3% roots; sticky; tan-colored clay	347551	6170301	Trees Depth: 4 in.- 2 ft.
LDM22-05	May 5, 2005	Shovel hole	Amt:60 gm -sandy; soft clay water; brown clay - 30% fine grained	347551	6170301	Trees Depth: 2 ft. - 3 ft. end of hole
LDM23-05	May 5, 2005	Grab sample	Amt:60 gm 150-200 microns cemented sandstone -light color	347541	6169452	Stream cut Bedrock or slumped

Auger hole 3#

Shovel hole 2#

TD, 3.5

Shovel hole 3#

TD, 3'

Grab # 1

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM24-05	May 5, 2005	Grab sample	Amt: 1 kg -light color sandstone; -cemented; 150-200 microns	347601	6169435	Stream cut. Bedrock or slumped. Downstream of black sand exposure. I kg kept
LDM25-05	May 5, 2005	Grab sample	Amt: 60 gm 150- 200microns fine-grained -somewhat rusty; cemented sandstone.	347695	6169150	Stream cut. Bedrock or slumped. - slightly magnetic
LDM26-05	May 5, 2005	Grab sample	Amt:60 gm finegrained 150-200micron -cemented -light color sandstone	347697	6169175	Stream cut Bedrock or slumped; Downstream from dark sandstone exposure.
LDM27-05	May 5, 2005	Auger hole	Amt:60 gm Organic material	347310	6169498	400-500 m W of black sand-stone exposure Trees. Little hill Depth:0-6"
LDM28-05	May 5, 2005	Auger hole	Amt:60 gm -sticky clay gray to brown in color (clay)	347310	6169498	400-500m W of black sand stone exposure Trees. Little hill. Depth: 6 in.- 2 ft.
LDM29-05	May 5, 2005	Auger hole	Amt:60 gm Very rusty sandy clay; - brown; 20% medium sand	347310	6169498	400-500m W of black sand stone exposure Trees. Little hill. Depth: 2 ft. - 3.5 ft
LDM30-05	May 5, 2005	Auger hole	Amt:60 gm 20% medium sand; 10% rusty and magnetic layers	347310	6169498	400-500m W of black sand stone exposure Trees. Little hill. Depth: 3.5 ft-4.5ft end of hole

NAD 27

ID #1	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM31-05	May 6, 2005	Auger hole	Amt:60 gm Organic material	347510	6169451	200-300m.NW of sandstone exposure. Depth:0-4" High magnetic reading.
LDM32-05	May 6, 2005	Auger hole	Amt:60 gm 15% medium sand; 5% quartz-like; sandy tan clay.	347510	6169451	200-300m NW of sandstone exposure. Depth: 4"-1ft High mag-netic read.
LDM33-05	May 6, 2005	Auger hole	Amt:60 gm 25% medium sand; sandy clay(gray mixed).	347510	6169451	200-300m.NW of sandstone exposure. Depth:1ft-3ft high magnetic read.
LDM34-05	May 6, 2005	Auger hole	Amt:60 gm -sticky gray clay; somewhat rusty leaftlets;	347510	6169451	200-300m.NW of sandstone exposure. Depth:3ft-4ft high magnetic read.
LDM35-05	May 6, 2005	Auger hole	Amt:60 gm - gray clay; unknown rocks at bottom of hole.	347510	6169451	200-300m.NW of sandstone exposure. Depth:4ft-6ft end of hole high magnetic read.
LDM36-05	May 6, 2005	Auger hole	Amt:60 gm Organic material	347140	6174396	N. end of lower hill. N. side of road. Depth:0-6"
LDM37-05	May 6, 2005	Auger hole	Amt:60 gm 20% med. sand;brown sandy clay	347140	6174396	N. end of lower hill. N. side of road. Depth: 6 in. - 3 ft.
LDM38-05	May 6, 2005	Auger hole	Amt:60 gm - sticky; tan colored clay	347140	6174396	N. end of lower hill. N. side of road Depth: 3 ft. - 6 ft. end of hole

auger hole 5#

TD 6'

auger hole 6#

TD, 12'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM39-05	May 7, 2005	Auger hole	Amt:60 gm 10% medium 5% coarse;rusty gray & brown sandy clay	347140	6174396	Trees Depth: 6 ft.- 8.5 ft.
LDM40-05	May 7, 2005	Auger hole	Amt:1/2kg. - gray clay; specks of black?	347140	6174396	Trees. Depth: 8.5 ft-12 ft. end of hole 1 kg kept
LDM41-05	May 7, 2005	Auger hole	Amt:60 gm Organic material	347502	6169199	About 200 m. NW of sand-stone exposure Depth:0-6"
LDM42-05	May 7, 2005	Auger hole	Amt:60 gm. soft sand Medium sand; brownish residue.	347502	6169199	Approx.200m NW of sand-stone exposure Depth: 6 in.-3 ft.
LDM43-05	May 7, 2005	Auger hole	Amt:60 gm 20% med. sand;brown sandy clay.	347502	6169199	Approx.200m NW of sand-stone exposure Depth:3ft-6ft
LDM44-05	May 7, 2005	Auger hole	Amt:60 gm 20% medium sand;some rust color; brown sandy clay.	347502	6169199	Approx. 200m NW of sand-stone exposure Depth: 6 ft. - 9 ft.
LDM45-05	May 7, 2005	Auger hole	Amt:60 gm -very rusty; brown and gray clay	347502	6169199	Approx. 200m NW of sand-stone exposure Depth: 9ft.- 13 ft.
LDM46-05	May 7, 2005	Auger hole	Amt:60 gm Glacier till; gray sticky clay	347502	6169199	Approx.200m NW of sand-stone exposure Rock ended hole at 16 ft.
LDM47-05	May 8, 2005	Auger hole	Amt:60 gm Organic material	347283	6169582	Approx. 500m NW of sand-stone exposure Depth:0-6"
LDM48-05	May 8, 2005	Auger hole	Amt:60 gm - soft sand; medium size; brown coating	347283	6169582	Approx. 500m NW of sand-stone exposure Depth: 6 in. - 4 ft.

auger hole 6#

auger hole 7#

TD 16'

auger hole 8#

TD 15'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM49-05	May 8, 2005	Auger hole	Amt: 60 gm tam colored; sandy clay; 20% sand medium to coarse	347283	6169582	Approx. 500m NW of sand-stone exposure Depth: 4 ft.- 8 ft.
LDM50-05	May 8, 2005	Auger hole	Amt:60 gm 20% fine-grained; sandy brown clay	347283	6169582	Approx. 500m NW of sand-stone exposure Depth: 8 ft. - 12 ft.
LDM51-05	May 8, 2005	Auger hole	Amt:60 gm -gray clay	347283	6169582	Approx. 500m NW of sand-stone exposure Depth: 12 ft.- 15ft.
LDM52-05	May 9, 2005	Auger hole	Amt:60 gm Organic material	347310	6169510	Approx. 600m NW of black sand exposure Depth:0-6"
LDM53-05	May 9, 2005	Auger hole	Amt:60 gm - sand;dirty brown tan	347310	6169510	Approx. 600m NW of black sand exposure. Depth: 6 in.- 4.5 ft Hole left in-complete. Marked with red flag.
LDM54-05	June 2, 2005	Auger hole	Amt:60 gm 20% fine grain sand; - sandy brown clay	347310	6169510	Approx. 600m NW of black sand exposure. Re-entry hole. Depth: 4.5 ft - 8 ft.
LDM55-05	June 2, 2005	Auger hole	Amt:60 gm 20% fine grain sand; sandy clay.	347310	6169510	Approx. 600m NW of black sand exposure. Depth: 8 ft. - 12 ft.
LDM56-05	June 2, 2005	Auger hole	Amt:60 gm 15% fine sand;brown sandy clay; gray clay	347310	6169510	Approx. 600m NW of black sand exposure. Depth: 12 ft.-16 ft.

auger hole 8#

auger hole 9#

TD, 24'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM57-05	June 2, 2005	Auger hole	Amt:60 gm - rusty; - gray clay	347310	6169510	Approx. 600m NW of black sand exposure. Depth: 16 ft.-20 ft
LDM58-05	June 2, 2005	Auger hole	Amt:60 gm - dark gray clay; rocks - glacier till	347310	6169510	Approx. 600m NW of black sand exposure. Depth: 20 ft.-24 ft. end of hole
LDM59-05	June 3, 2005	Auger hole	Amt:60 gm Organic material	347422	6169425	300-400 m NW of exposed black sand-stone. Depth:0-6"
LDM60-05	June 3, 2005	Auger hole	Amt:60 gm - soft sand; dirty brown medium to coarse sand	347422	6169425	300-400 m NW of exposed black sand-stone. Depth: 6 in.- 3 ft.
LDM61-05	June 3, 2005	Auger hole	Amt:60 gm 20% medium sand; tan sandy clay;	347422	6169425	300-400 m NW of exposed black sand-stone. Depth: 3 ft.-7.5 ft.
LDM62-05	June 3, 2005	Auger hole	Amt:60 gm 10% coal-like material; 15% medium sand; - brown sandy clay;	347422	6169425	300-400 m NW of exposed black sand-stone. Depth: 7.5 ft.-12ft.
LDM63-05	June 3, 2005	Auger hole	Amt:60 gm 15% medium sand;brown sandy clay;	347422	6169425	300-400 m NW of exposed black sand-stone. Depth: 12 ft.-15 ft.
LDM64-05	June 3, 2005	Auger hole	Amt:60 gm -very rusty; brown clay	347422	6169425	300-400 m NW of exposed black sand-stone. Depth: 15 ft.-18 ft. end of hole

auger hole 9#

auger hole 10#

TD, 18'

NAD 27

ID#	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes	
LDM65-05	June 4, 2005	Grab sample	Amt:60 gm -salty smell (or urine). looked like a salt pond.	348280	6170229	50 -100 m. E. of stream Pond with no growth around it.	Grab 5#
LDM66-05	June 4, 2005	Grab sample	Amt:60 gm coal-like material; layers	347945	6169604	Stream cut	Grab 6#
LDM67-05	June 4, 2005	Grab sample	Amt:60 gm ron clay layer; gray; 50% rusty	347946	6169110	Stream bank	Grab 7#
LDM68-05	June 4, 2005	Auger hole	Amt:60 gm Organic material	347550	6168550	200-300mSW of exposed black sand-sand. Big hilltop-slumped 85° slant. Depth:0-6"	Auger hole 11#
LDM69-05	June 4, 2005	Auger hole	Amt:60 gm -very sticky clay; light gray in color	347550	6168550	200-300mSW of exposed black sand-stone. Big hilltop-slumped 85 slant. Depth: 6 in. -10 ft	TD, 11
LDM70-05	June 4, 2005	Auger hole	Amt:60 gm - till rocks; gravel rocks	347550	6168550	200-300mSW of exposed black sand-stone. Big hilltop-slumped 85 slant. Depth: 10 ft- 11 ft. end of hole	
LDM71-05	June 4, 2005	Shovel hole	Amt:60 gm Organic material	347650	6168901	300-400m. SW of exposed black sandstone. Very tall and odd-shaped hill. Depth:0-6"	Shovel hole 4# TD, 2.5'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing UTM)	Notes	
LDM72-05	June 4, 2005	Shovel hole	Amt:60 gm -light colored sticky clay; big gravel rocks.	347650	6168901	300-400 m Southwest of exposed black sandstone. Very tall and odd-shaped hill. Depth: 6 in.- 2.5 ft end of hole	Shovel hole 4 #
LDM73-05	June 4, 2005	Grab sample	Amt: 60gm -cemented brown sand-stone. Fine grained 150-200 microns	347550	6169325	Stream cut Bedrock or slumped. Downstream from black sandstone (south).	Grab 8 #
LDM74-05	June 4, 2005	Grab sample	Amt:1 kg. - cemented brown sand-stone. Fine grained 150-200 microns	347551	6169451	Stream Bedrock or slumped. Downstream from black sandstone (south). 1 kg kept	Grab 9 #
LDM75-05	June 4, 2005	Grab sample	Amt:60 gm - cemented fine-grained 150-200 microns. - Brown sandstone; some darker sandstone.	347696	6169150	Stream Bedrock or slumped. Downstream from black sandstone (south).	Grab 10 #
LDM76-05	June 4, 2005	Grab sample	Amt:60 gm - cemented fine-grained 150-200 microns. - brown sand-stone. Looks like outcrop or cut.	347542	6169450	Stream Approx. 300-400 m. from exposed black sand-stone.	Grab 11 #

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing UTM)	Notes	
LDM77-05	June 4, 2005	Shovel hole - Crowbar	Amt:60 gm ironstained clay; coal-looking matter.	348202	6170035	Stream cut 1.5 ft. thick	Shovel hole 5#
LDM78-05	June 4, 2005	Shovel hole - Crowbar	Amt:60 gm light sand-stone (soft) Some rusty spots; fine-grained 150-200 microns	348206	6169031	By stream. East of black sand-stone exposure. Depth: 1 ft.- 4 ft.	Shovel hole 6#
LDM79-05	June 4, 2005	Auger hole	Amt:60 gm Organic material	347557	6168080	Trees Depth: 0 - 3 inches	auger hole 12#
LDM80-05	June 4, 2005	Auger hole	Amt:60 gm rusty sticky clay; light brown color	347557	6168080	Trees Depth: 3 in.- 4 ft.	TD 4'
LDM81-05	June 5, 2005	Auger hole	Amt:60 gm Organic material.	347535	6168076	By small stream. 600-700 m. S. of exposed black sand. Depth:0-6"	auger hole 13#
LDM82-05	June 5, 2005	Auger hole	Amt:60 gm black, rotten organic matter.	347535	6168076	By small stream. Depth: 6 in.-1 ft.	TD 2'
LDM83-05	June 5, 2005	Auger hole	Amt:60 gm brown sand Medium sand	347535	6168076	By small stream. Depth: 1 ft- 2 ft.	
LDM84-05	June 5, 2005	Auger hole	Amt:60 gm - rocks (gravel)	347535	6168076	By small stream. Depth: 2 ft- ?	
LDM85-05	June 5, 2005	Auger hole	Amt:60 gm Organic material	347598	6168022	600-700 m. S. of exposed black sand. Depth: 0 - 6 inches	auger hole 14# TD 6'

NAD 27

ID #	When collected	Method	Description	Easting (UTM)	Northing (UTM)	Notes
LDM86-05	June 5, 2005	Auger hole	Amt:60 gm - light brown sticky clay; 10% sand stringers.	347598	6168022	Trees 600-700 m. south of exposed black sand. Depth: 6 in.- 4.5 ft
LDM87-05	June 5, 2005	Auger hole	Amt:1 kg. gravel rocks - rocks	347598	6168022	600-700 m south of exposed black sand. Trees. Depth: 4.5 ft - 5 ft

auger hole 14#

NOTE: TD - Total Depth
All measurement is in inches and feet.

Worked Performed

1.) 14 Auger holes
2.) 6 Shovel holes
3.) 11 Grab samples

For the auger holes, a home-made drag bit and chisel end were used to soften the ground for the dutch auger to drill out and retrieve the dirt. Further depth could be obtained by adding auger extensions.

A magnetometer was used in May 2005 to do the ground mag. In June, it was only used as a metal detector to find highly magnetic spots and new sample locations. For example, magnetic black sands have a very high magnetic reading.

Samples kept weighed approximately 1 kg. The amount of the 60 gram samples were taken, crushing 30 grams of it to be observed under the magnifying glass or microscope. After observed unaltered, they are washed and reduced to sand grain size. They were later re-observed in the lab and no diamond indicator minerals were found best to our knowledge.

There are no assay results as of this date.

MAP FOR

AUGER HOLES,

SHOVEL HOLES
&
GRAB SAMPLES

Samples & holes

CANADA

83 P/11

1:50,000

EDITION 2

83 P/11

Joins 83 P/14

Joins 83 P/12

Joins 83 P/6

Joins 83 P/10

Military users, refer to this map as: / Référence de cette carte pour usage militaire:
SERIES A 741 SÉRIE
MAP 83 P/11 CARTE
EDITION 2 MCE ÉDITION

CONVERSION SCALE FOR ELEVATIONS
ÉCHELLE DE CONVERSION DES ÉLÉVATIONS
Metres / Mètres
Feet / Pieds

Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 1973
FOR CENTRE OF MAP
Annual change decreasing 3.4'
N'utiliser le diagramme que pour obtenir les valeurs numériques
DÉCLINAISON MOYENNE APPROXIMATIVE
AU CENTRE DE LA CARTE EN 1973
Variation annuelle décroissante 3.4'

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 12
QUADRILLAGE DE MILLE MÈTRES
TRANSVERSE UNIVERSEL DE MERCATOR

GRID ZONE DESIGNATION: DÉSIGNATION DE LA ZONE DU QUADRILLAGE: 12 U
100,000 M. SQUARE IDENTIFICATION: IDENTIFICATION DU CARRÉ DE 100,000 M.: US

EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES
EXEMPLE DE LA MÉTHODE EMPLOYÉE POUR FIXER DES REPÈRES À 100 MÈTRES PRÈS

REFERENCE POINT / POINT DE REPÈRE: CHURCH - ÉGLISE (as above / ci-dessus)
EASTING: Read number on grid line immediately to left of point.
LONGITUDE EST. Noter le chiffre de la ligne du quadrillage immédiatement à gauche du repère. 97
Estimate tenths of a square from this line eastward to point.
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est. 5
975
NORTHING: Read number on grid line immediately below point.
LATITUDE NORD: Noter le chiffre de la ligne du quadrillage immédiatement en-dessous du repère. 98
Estimate tenths of a square from this line northward to point.
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction nord. 4
GRID REFERENCE / RÉFÉRENCE AU QUADRILLAGE: 975984
Nearest similar grid reference 100,000 metres (about 62 miles)
La prochaine référence similaire est à 100,000 mètres (environ 63 miles)

Produced, 1973, by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, from aerial photographs taken in 1956, 1957, and 1970. Field surveys 1960. Printed 1974.

Copies may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer.

Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES. Updated from aerial photographs taken in 1976. Overprinted 1978.

Ground Magnetic Survey
- Shovel holes
- Auger holes
- Grab Samples

Tower Road
813 Road
C-Road

ROADS / ROUTES:
hard surface - pavée
loose surface - de gravier
cart track - de terre
trail - sentier
Deletions - Suppressions x x x x x

Roads: / Routes:
cart track ... de terre
trail, cut line or portage ... sentier, percée ou portage

IMPROVEMENT DISTRICT 17
ALBERTA
WEST OF FOURTH MERIDIAN - OUEST DU QUATRIÈME MÉRIDIEN
Scale 1:50,000 Échelle
Miles 1 0 1 2 3 Miles
Metres 1000 0 1000 2000 3000 4000 Mètres
Yards 1000 0 1000 2000 3000 4000 Verges

This Provisional Map is equivalent to a standard map in accuracy of content.

Some names on this map are not yet official. Corrections or additions are invited by the Surveys and Mapping Branch.

CONTOUR INTERVAL 50 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

Cette carte provisoire équivaut une carte régulière au point de vue précision de l'information.

Certains noms inscrits sur cette carte ne sont pas encore officiels. La Direction des levés et de la cartographie saurait gré au public de lui signaler corrections et additions.

ÉQUIDISTANCE DES COURBES 50 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Système de référence géodésique nord américain, 1927
Projection transverse de Mercator

Établie en 1973, par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, à l'aide de photographies aériennes prises en 1956, 1957 et 1970. Levés sur le terrain en 1960. Imprimée en 1974.

Ces cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près.

Établie par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Mise à jour à l'aide de photographies aériennes prises en 1976. Surimprimée en 1978.

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EDITION 2