

GRAVEL SEARCH
ENTERPRISE-SOUTH AREA

J D MOLLARD AND ASSOCIATES LIMITED

CONSULTING CIVIL ENGINEERS AND ENGINEERING GEOLOGISTS

Specializing in airphoto interpretation and ground-water studies

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August 26, 1977

Mr. John A. Bowen
Technical Officer
Highways Division
Department of Public Works
Government of the Northwest Territories
Yellowknife, N W T
X1A 2L9

Dear John:

Re: Gravel Search Enterprise-south Area

Following are a few more ^{Prospect-}project-areas as a result of obtaining the wider photo coverage between a point ten (10) miles south of the 60th parallel and Enterprise:

<u>Project Number</u>	<u>Landform</u>	<u>Comments</u>
43	Beach ridges	Shallow; poorly developed; expect poor
44	River terraces	May be shallow granular river terraces over bedrock; check sluff face with shovel
45	Beach ridge	Prospect looks somewhat deeper but may be very fine
46 & 46A	Beach ridges	Very doubtful; shallow if material present
47 & 48	Outwash	Shallow and very doubtful
48A	Beach	Check along trail; no stereo-coverage so cannot examine in 3-D. Looks very doubtful
49 & 50	Beach ridge remnant and outwash remnant	Doubtful but worth checking by chopper

airphoto interpretation and reconnaissance field checking dealing with aggregate and borrow searches • terrain analysis
• route selection and appraisal • dam sites and reservoirs • river basin studies • slope stability and erosion
• pre-bid tender information • surficial geologic mapping • resource inventories • maps and reports

ground-water consulting • well and aquifer location and evaluation • specifications • field supervision
• aquifer and well tests • well design and rehabilitation • quality problems • reports • recommendations

Mr. John A. Bowen

<u>Project Number</u>	<u>Landform</u>	<u>Comments</u>
51	Outwash? <u>or</u> erosional remnants	This is a "cut-off" area of abandoned river channels. It is difficult to tell whether all of the outlined prospect- areas are silty clay remnants or are outwash. There may be some of each so I would check them all if possible to be sure no gravel area is missed
52	Beach ridges?	Very poor and doubtful areas
53	Beach ridge	Very tiny
54	Sand and/or gravel(?) bars along old abandoned river channel	Doubtful but one of better- looking prospects; Swan Lake area
55	Outwash prospects along old abandoned river channel	Very poor prospects
56	Sand bars?	Very tiny and doubtful
57	Channel bars	Along Hay River; check best- looking area first (<u>see</u> airphoto xerox of prospect 57)

In Jack's absence I have just done a quick pass over the newly expanded photo coverage between the 60th parallel and Enterprise. I wanted to get something off to you quickly because of your crews being in the field.

On Jack's return he will likely want to re-examine the new coverage and if anything else looks worth mapping he will send you off a supplement to this letter-report at that time.

Prospects 51 and 54 look like the most promising and even these look very glum. Also Prospect 45 appears to be worth a thorough check.

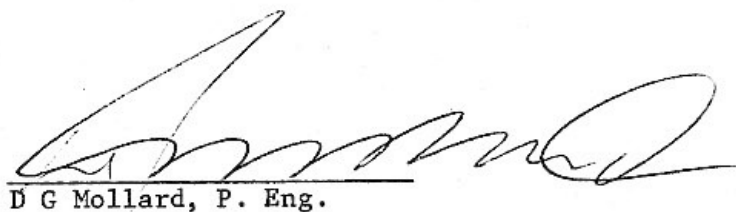
Mr. John A. Bowen

As you already know this is a very, very poor-looking area for gravel. Though gravel may in fact be present below an organic or a silty clay cover in some areas it is impossible to spot from the photos because all airphoto-identifying indicators have been masked out by this overlay.

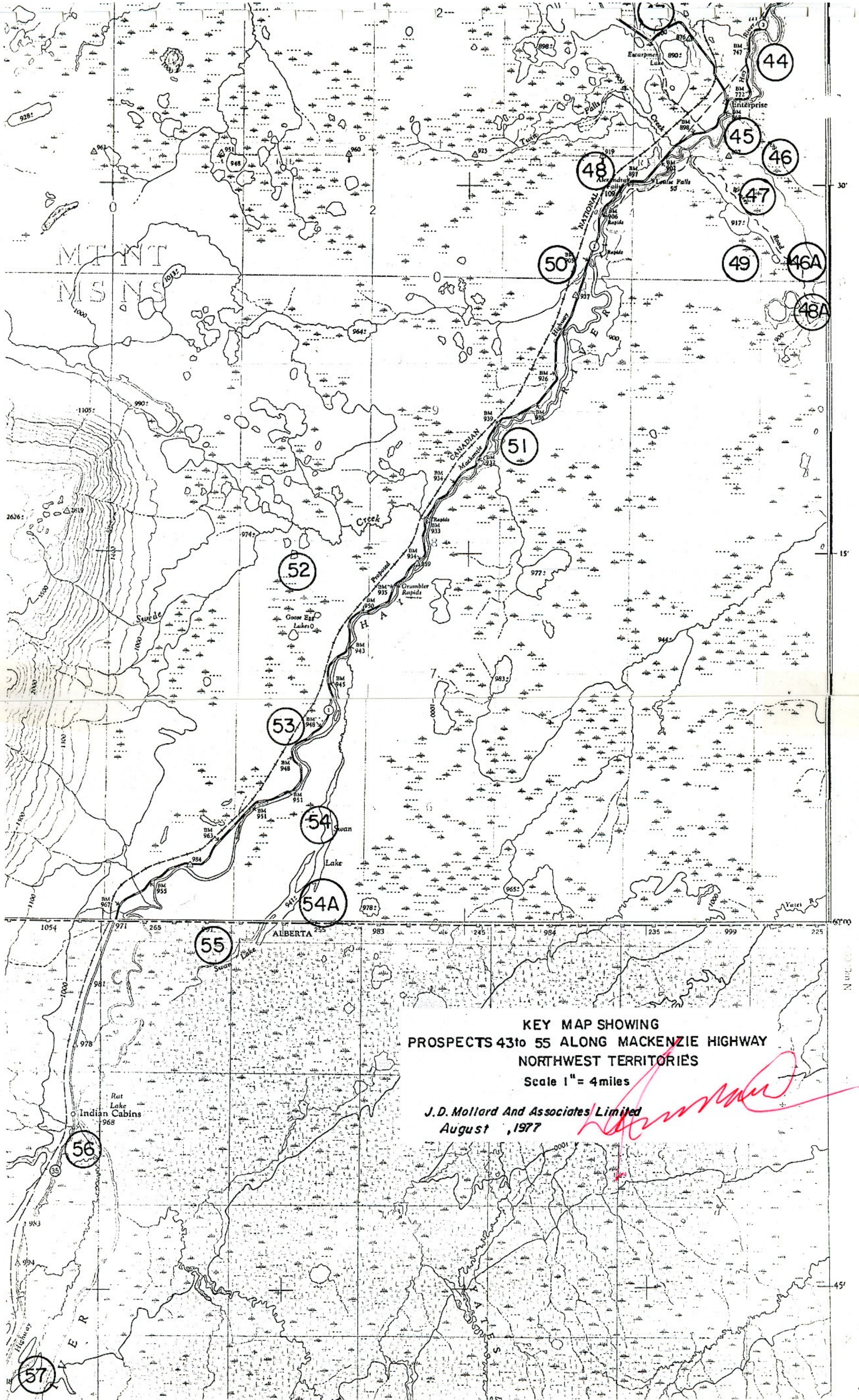
I will keep the contact photos here for Jack then forward them later.

Yours truly

DGM:cr
Encl.



D G Mollard, P. Eng.



22-43-27

22-43-27



Shallow beach ridges
PROSPECT 43

Existing quarry?

Check terraces along river
PROSPECT 44

ENTERPRISE

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PROSPECT 45

Beach ridge

Beach ridge

PROSPECT 46

PROSPECT 47

PROSPECT 46A

Beach ridge

A 22438-212



PROSPECT 48
Very doubtful

A 22438-210

PROSPECT 48A

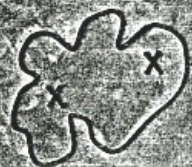
Check along trail

5



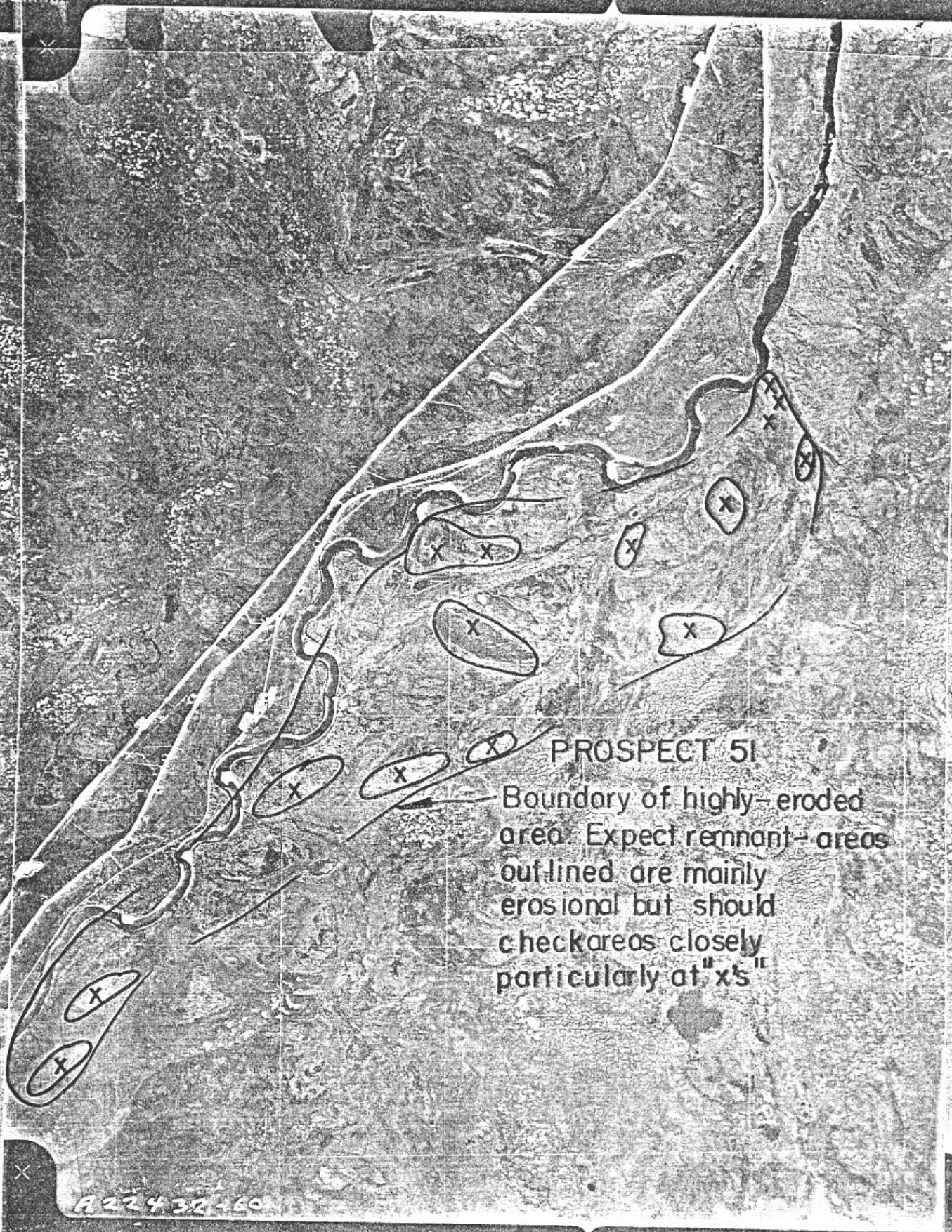
Doubtful beach ridges ?
PROSPECT 49

1593-61



PROSPECT 50

P21543-59



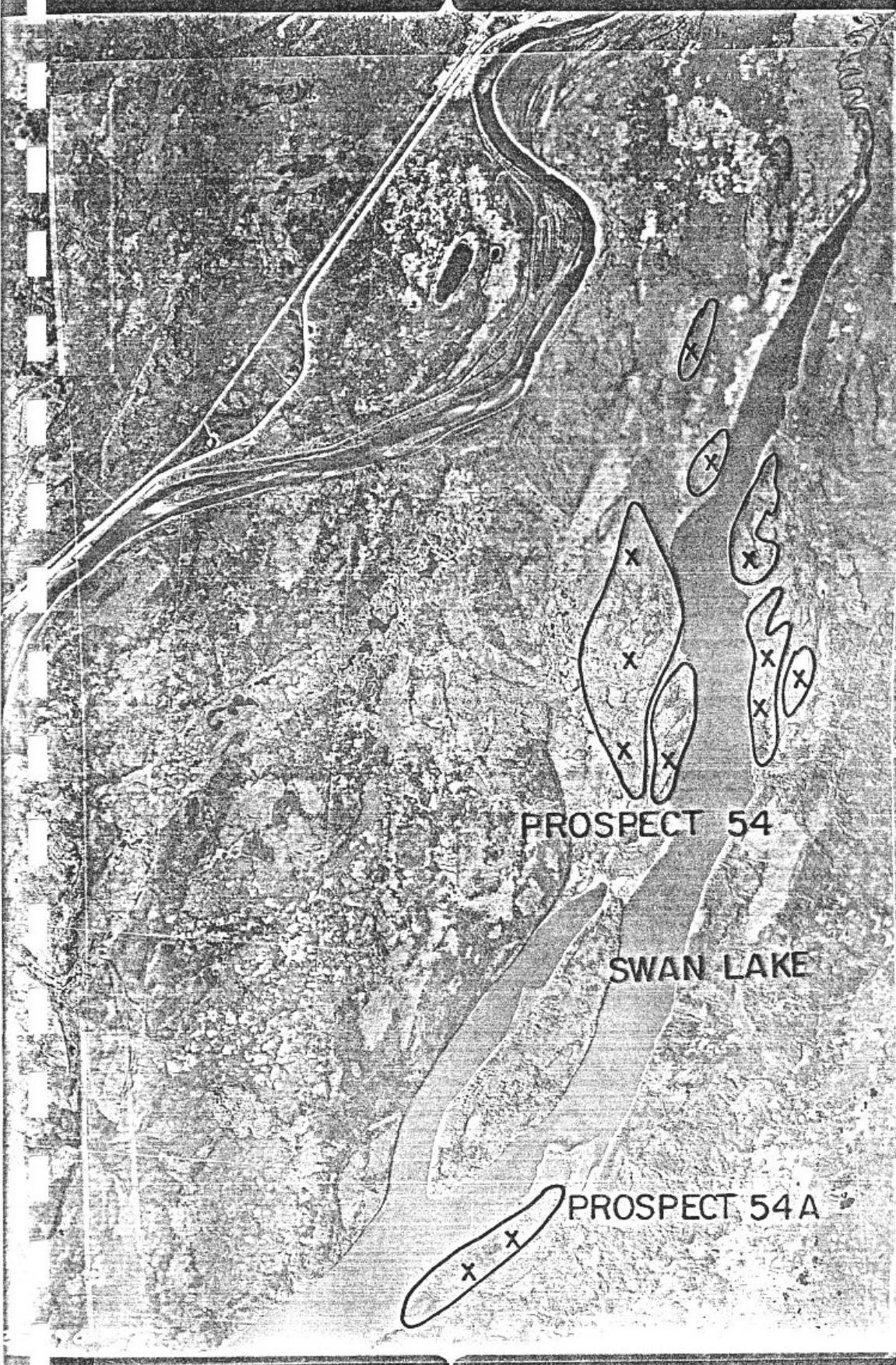
A22432-60

PROSPECT 52

May possibly be beach ridges
but very doubtful



Maybe tiny beach ridge
PROSPECT 53

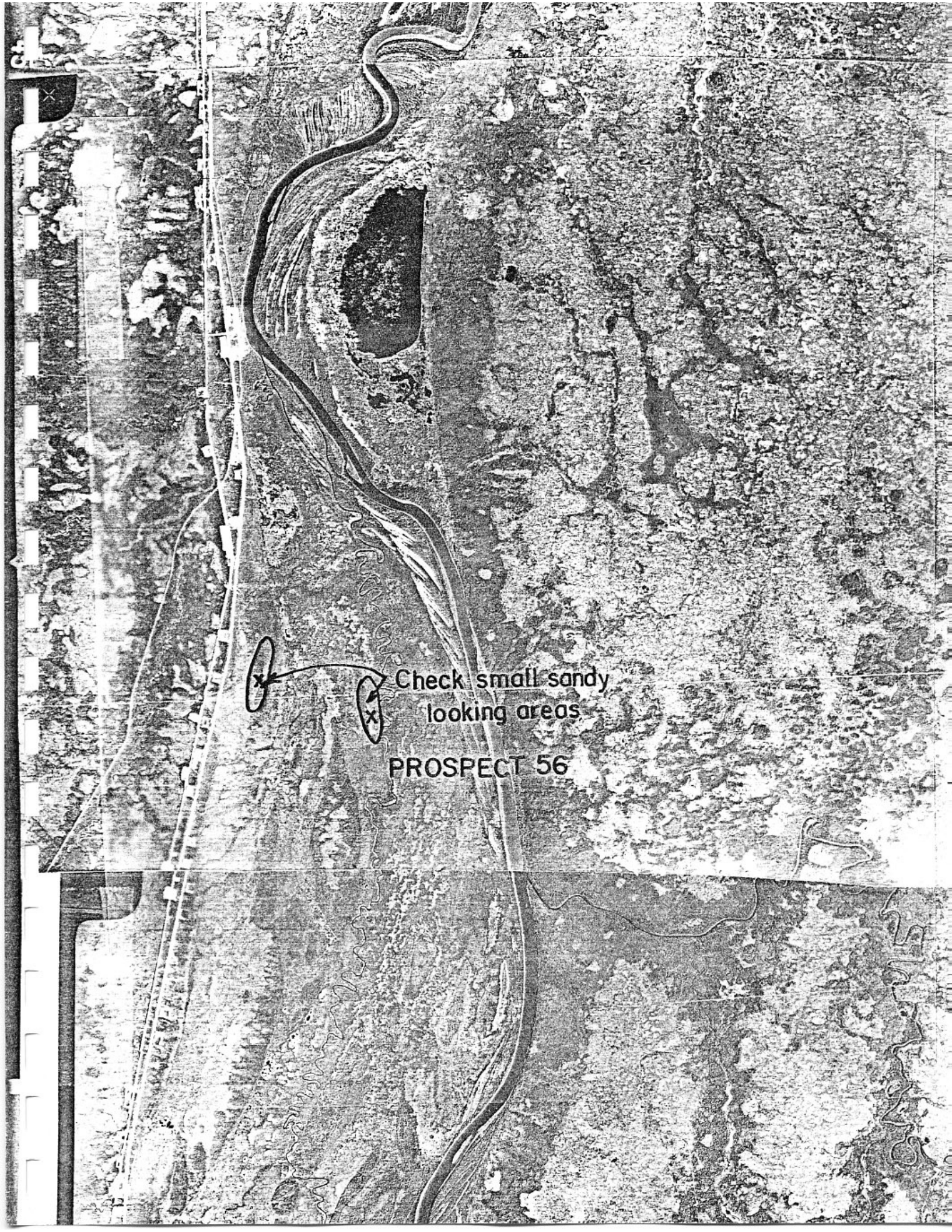


PROSPECT 54

SWAN LAKE

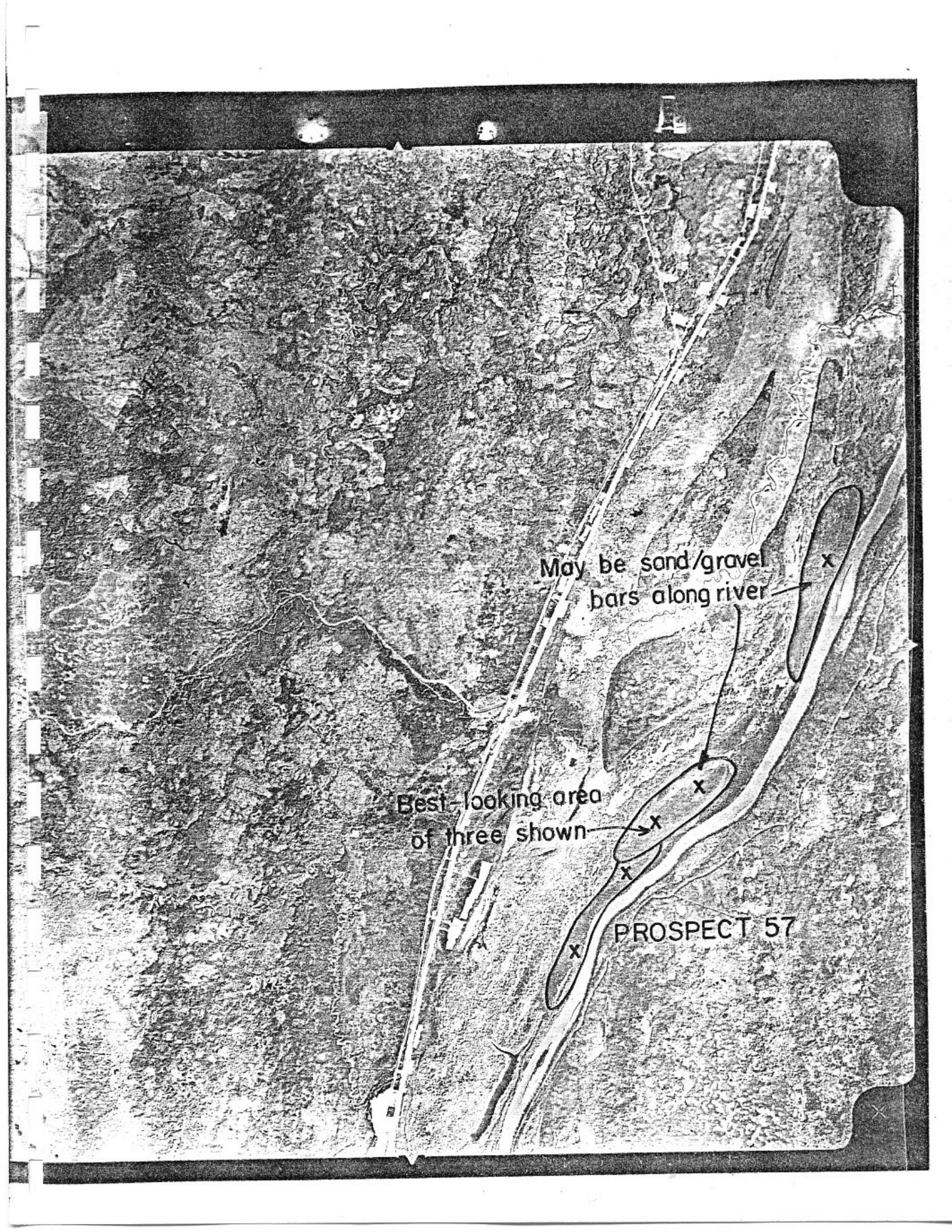
PROSPECT 54A





Check small sandy
looking areas

PROSPECT 56



May be sand/gravel
bars along river

This is an aerial photograph of a river valley. A river flows from the top right towards the bottom left. Several areas along the river are circled in black. Handwritten annotations include 'May be sand/gravel bars along river' with an arrow pointing to a circled area, and 'Best-looking area of three shown' with an arrow pointing to another circled area. The text 'PROSPECT 57' is written near the bottom right. There are several 'x' marks on the river and surrounding terrain. The left edge of the photo shows a series of white marks, possibly from a binder.

Best-looking area
of three shown

PROSPECT 57

END OF REPORT