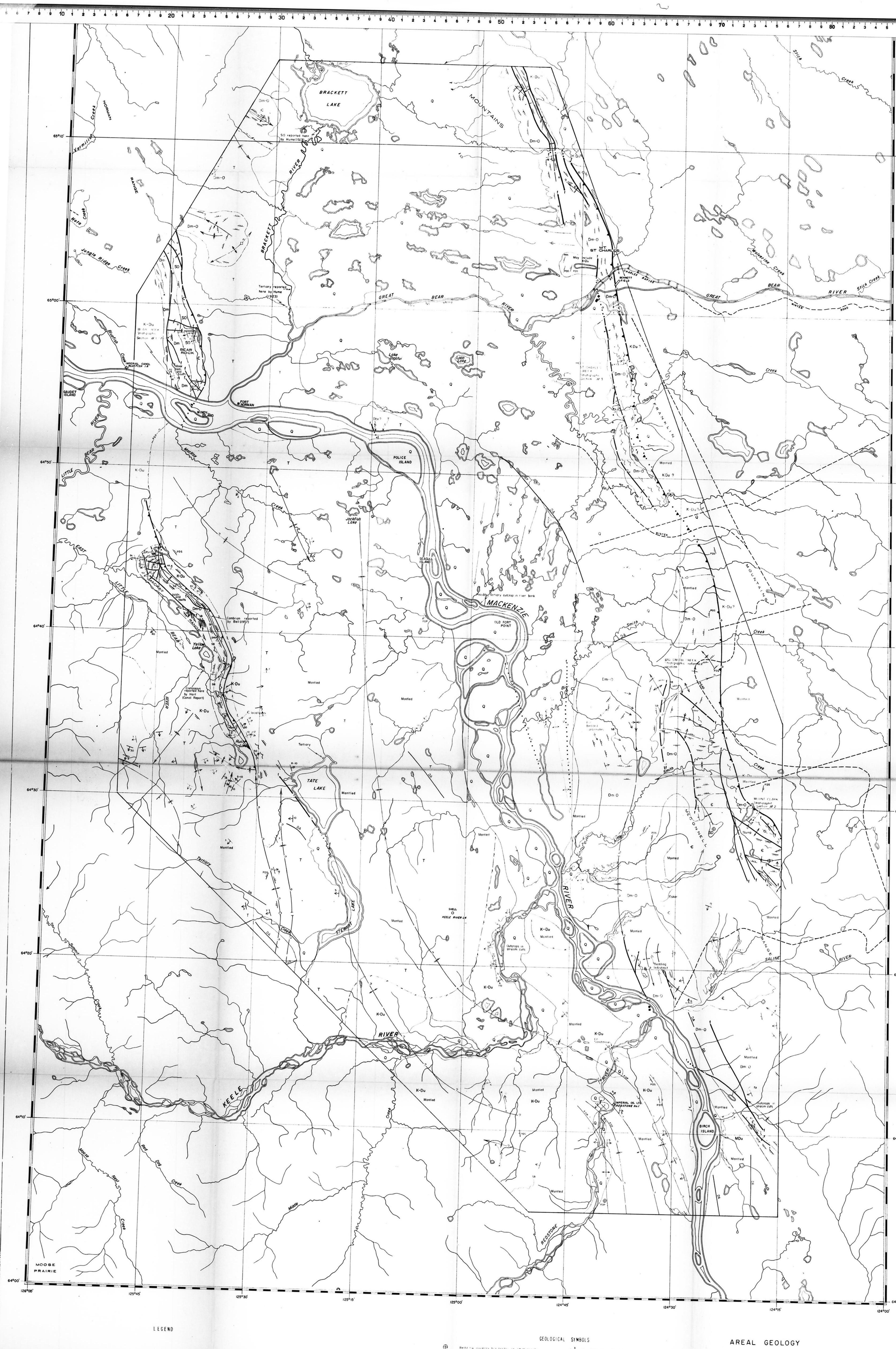
2660 Walkley Rd. Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Fax: (613) 731-0453

PROJ. NO. 5 5 1 - 0 1 - 0 5 - 0 0 1 LINE NO. M A P PART NO. 1 OF 2



LEGEND

AGE		MAP SYMBOL	
CENOZOIC	QUATERNARY	Q	Recent alluvium, terrace deposits, landslide debris and glacial drift undivided
	TERTIARY	T	Tertiary rocks undivided Mainly gravel, sand and mudstone, with some lignite beds
MESOZOIC	CRETACEOUS	K	Shale, sandstone and siltstone
PALEOZOIC	MISSISSIPPIAN *	M	Probably mainly shale, if present
	DEVONIAN	Du	Upper Devonian; shale, siltstone and sandstone
		Dm	Middle Devonian; limestone, dolomite, shale, brecciated in lower part
	SILURIAN	S	Dolomite
	ORDOVICIAN	O	Dolomite
	CAMBRIAN	€	Shale, limestone, sandstone

K-Du — Cretaceous and Upper Devonian rocks, undivided

MDu — Mississippian and Upper Devonian rocks undivided

SO — Silurian and Ordovician rocks undivided

Dm-O — Middle Devonian through Ordovician undivided

* Presence not reliably reported

GEOLOGICAL SYMBOLS

Bedding appears horizontal on photographs
Recognizable dip, 1° or less
Dip group 1, 0° to 5°
Dip group 2, 5° to 10°
Dip group 3, 10° to 25°
Dip group 4, 25° to 45°
Dip group 5, 45° to nearly vertical
(Rate of dip estimated from air photographs)
Bedding appears vertical on photographs
Bedding overturned
General dip of beds having subordinate folds
Dip and strike. Amount of dip cannot be estimated on photographs
Dip component
Field observed published dip or component
FOP Field observed published information
Photo dip, estimated in degrees
POS Possible dip slope
BEAR ROCK Name and location of field examined, photogrammetrically measured stratigraphic section
Fracture or joint
DA Distinctive alignment, possible structural significance
Fault, dotted where extended through Quaternary deposits
Fault, position indefinite
Fault, inferred
Thrust fault, triangles on thrust sheet
Trace of bedrock in stream cut appears horizontal. May represent flat-lying beds or strike

Anticline, with apex and plunge
Syncline, with high point and plunge
Anticline and syncline, position indefinite
Anticline and syncline, inferred
Anticline and syncline overturned. Arrows denote direction of dip of limbs and are on side of normal dip
Axis of anticline appears to coincide with fault trace trace
Axis of syncline appears to coincide with fault trace trace
Structural terrace
Monocline
Apparent unconformable contact
Contact, dashed where indefinite
Contact, inferred
Key bed
SB Stratigraphic break designating boundary between resistant and recessive lithologic units
X Outcrop or exposure in mantled area
Prominent erosional edge of stream terrace or cliff
Minor erosional edge of stream terrace or cliff
Glacial lineation

GEOMORPHIC SYMBOLS

Linear stream segment interpreted as strike controlled
Curvilinear stream segment interpreted as structurally controlled
Strike and dip interpreted from geomorphic evidence
Anticline and syncline based on geomorphic evidence. Arrow indicates direction of plunge

CULTURAL AND GEOGRAPHICAL SYMBOLS

Streams
Braided stream
Lake or pond
Intermittent lake or pond
Depression or sink hole
Swamp or marsh area (muskeg)
Well location or drilling well
Abandoned well location
Oil well
Abandoned oil well
Gas well
Oil and gas well
Suspended well location
Dry and abandoned test
Provincial highway
Improved road
Unimproved road, main access
Minor road or trail
Mine or quarry
Airstrip
Triangulation station
Bench mark
Town, population 1-250
Town, population 251-1000
Town, population over 1000
Building or cabin
Group of buildings or cabins
Fence

AREAL GEOLOGY AND STRUCTURAL INTERPRETATION MAP OF THE FORT NORMAN AREA NORTHWEST TERRITORIES, CANADA

- Prepared by -

V. ZAY SMITH ASSOCIATES LTD.
CALGARY, ALBERTA

SCALE
One inch to two miles
10,000 5,000 2500 0 10,000 20,000 30,000 FEET
3 1 1/2 0 2 3 4 5 MILES

This map was prepared by means of stereoscopic examination of air photographs, utilizing pertinent published geologic information

- Prepared for -

KERR-McGEE OIL INDUSTRIES INC.

NOVEMBER, 1964

549-1-51

MAY 3 1965