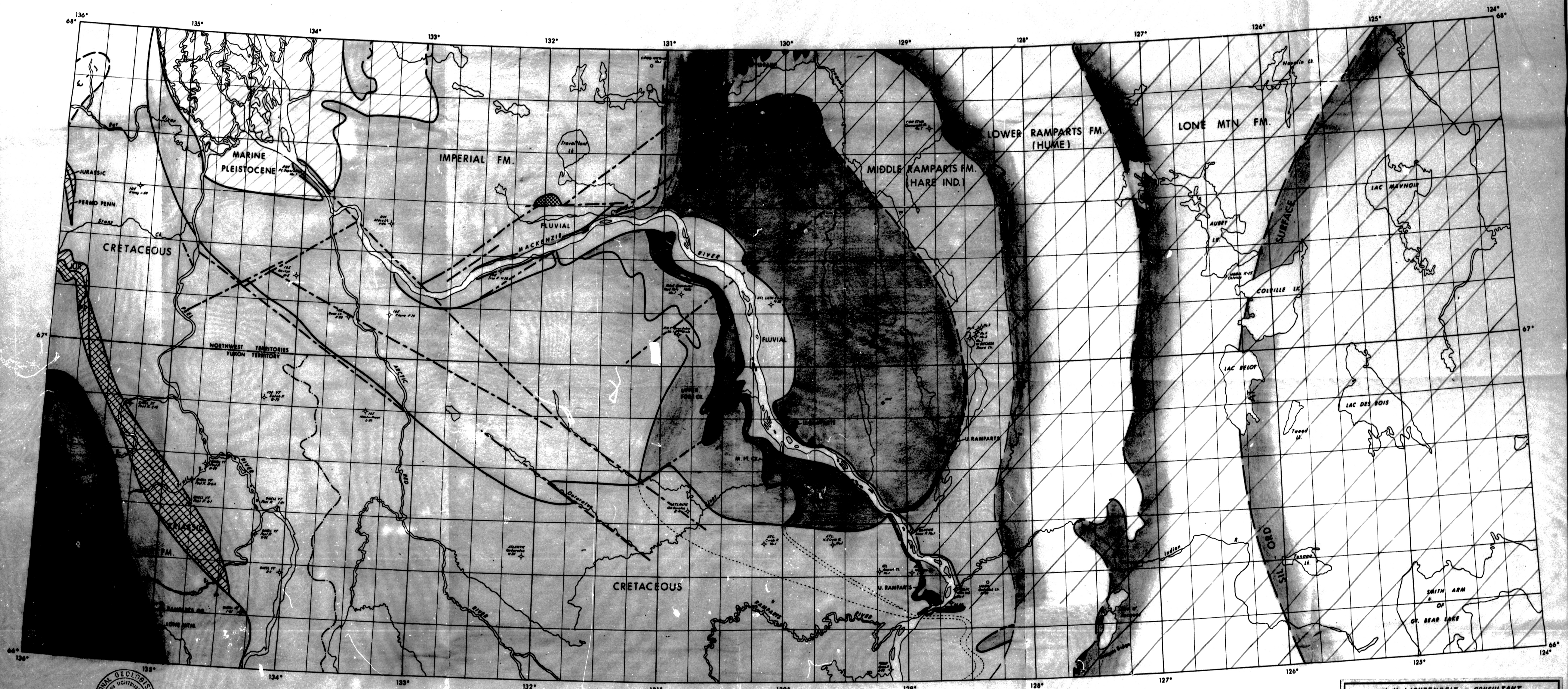
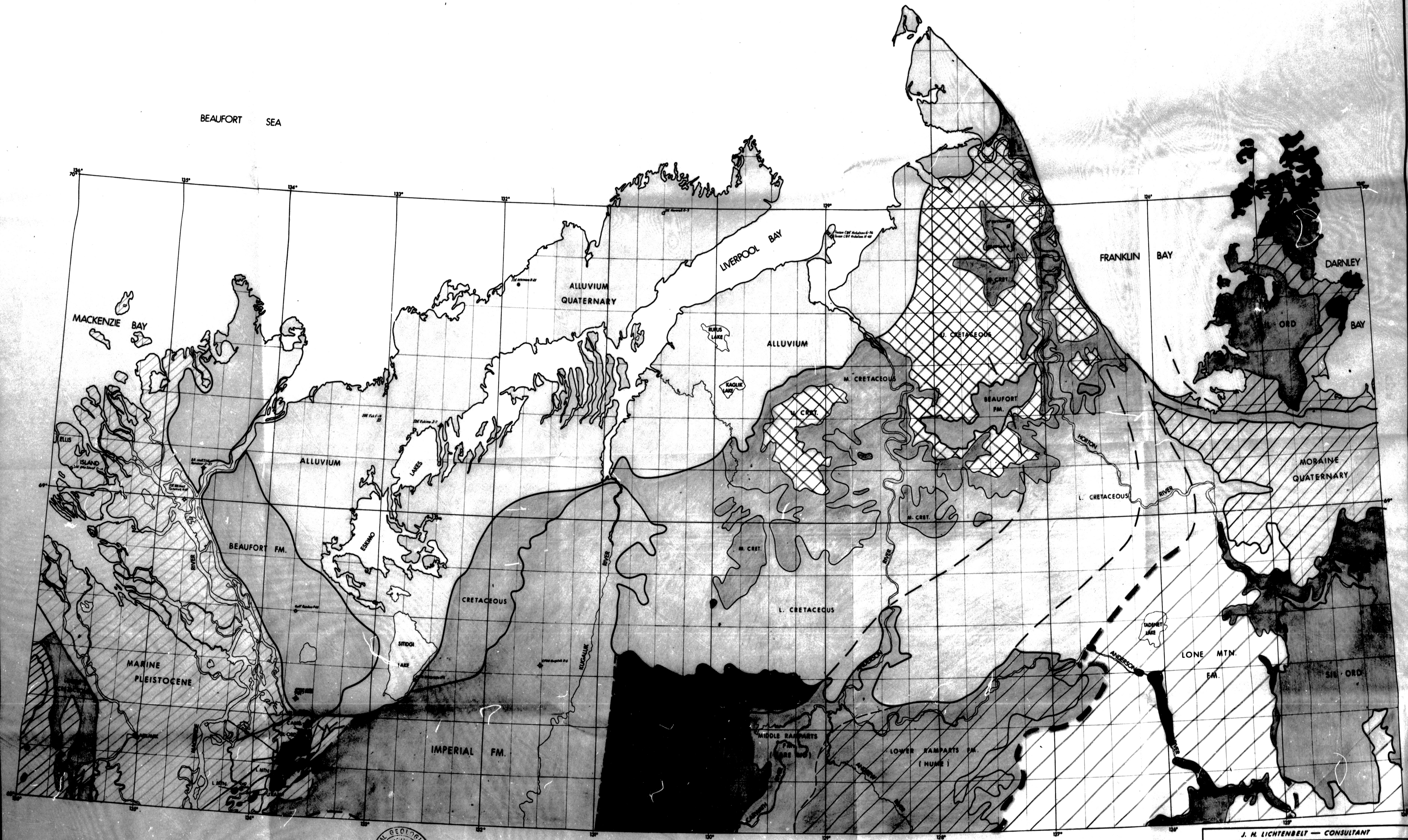




J. H. LICHTENBELT - CONSULTANT	
LOWER MACKENZIE RIVER AREA N.W.T.	
SURFACE MAP	
MAP NO. 1	
CONTOUR INTERVAL: DATUM:	
MAP SCALE: 1 INCH = 4 MILES	DATE: 1970



J. H. LICHTENBELT — CONSULTANT

MACKENZIE DELTA — ARCTIC COAST
N.W.T.

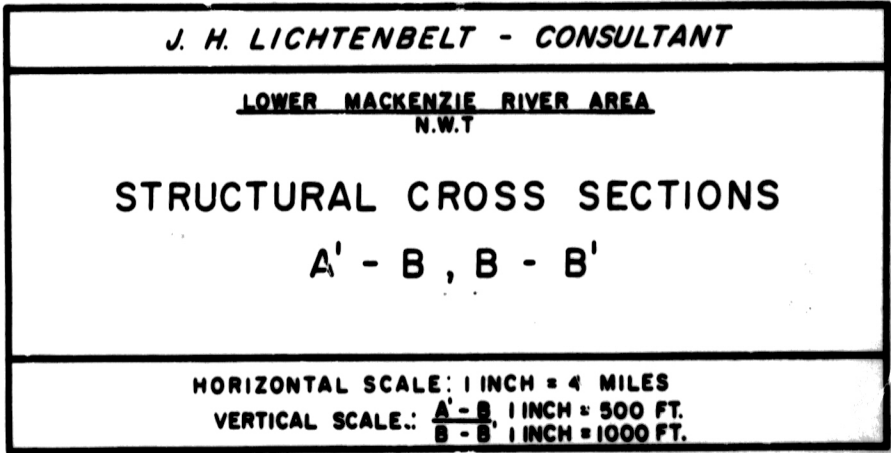
SURFACE MAP

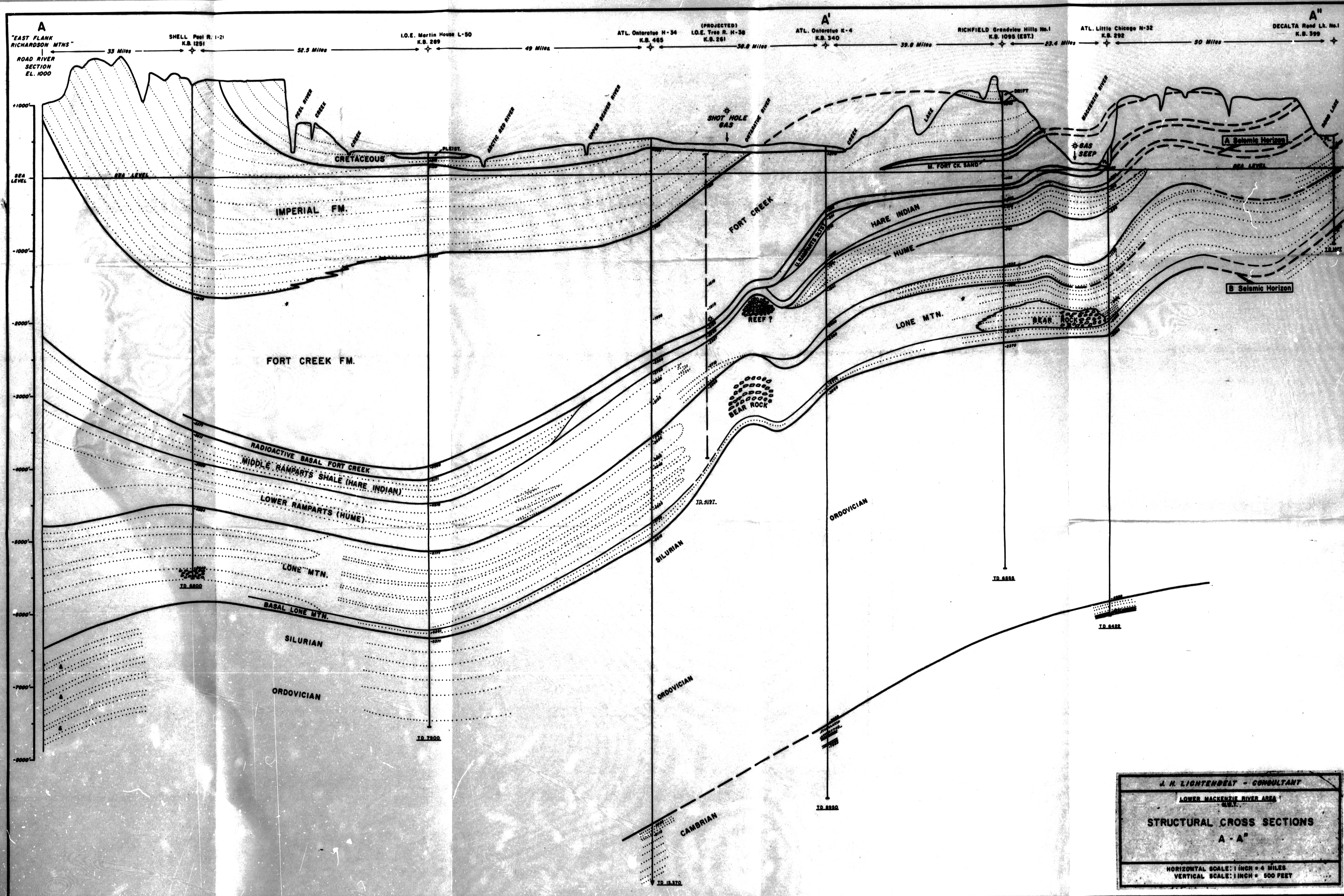
MAP NO. 1

CONTOUR INTERVAL:
DATUM:

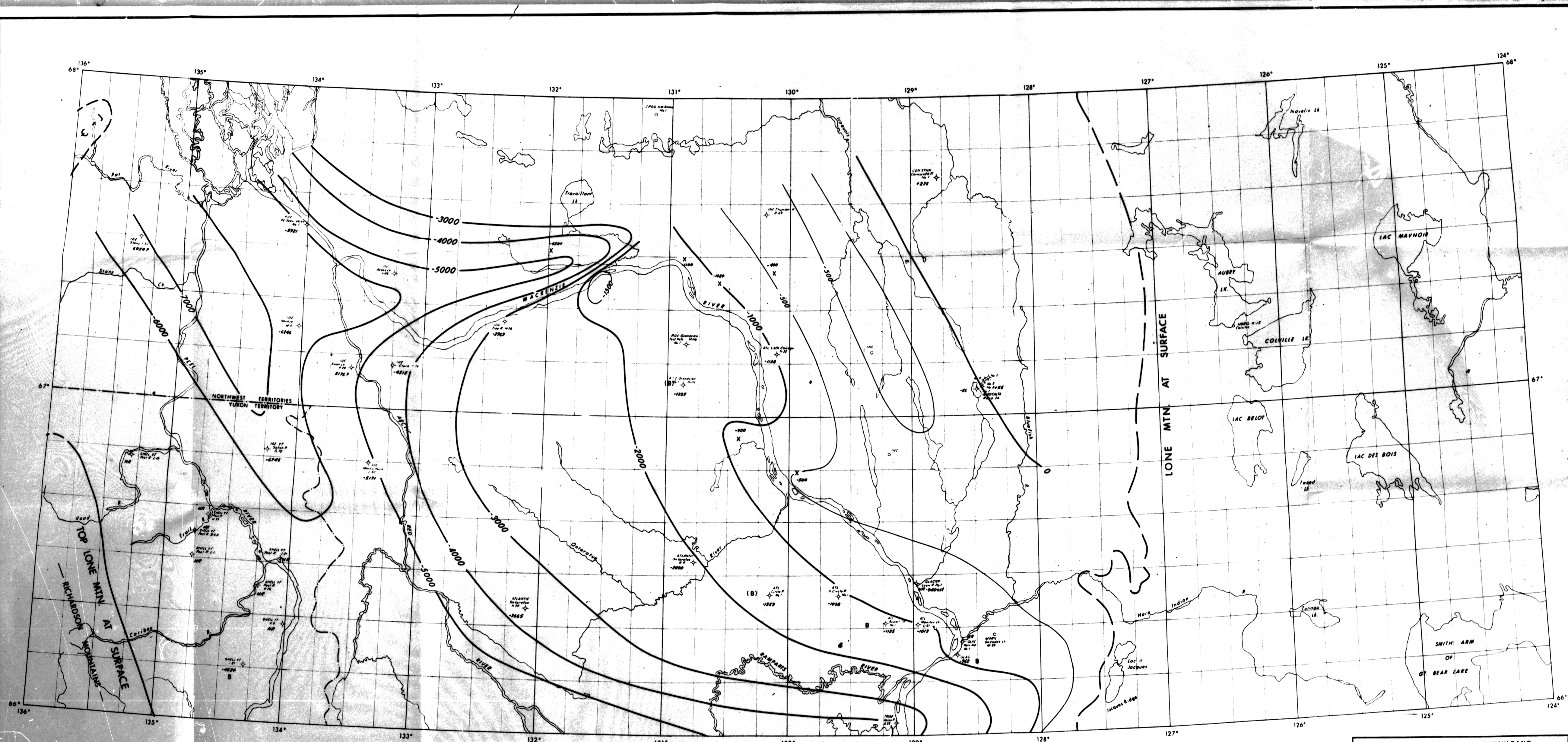
MAP SCALE: 1 INCH = 8 MILES

DATE: 1970





J. H. LIGHTENBURY - CONSULTANT
LOWER MACKENZIE RIVER AREA
STRUCTURAL CROSS SECTIONS
A - A'
HORIZONTAL SCALE: 1 INCH = 4 MILES
VERTICAL SCALE: 1 INCH = 500 FEET

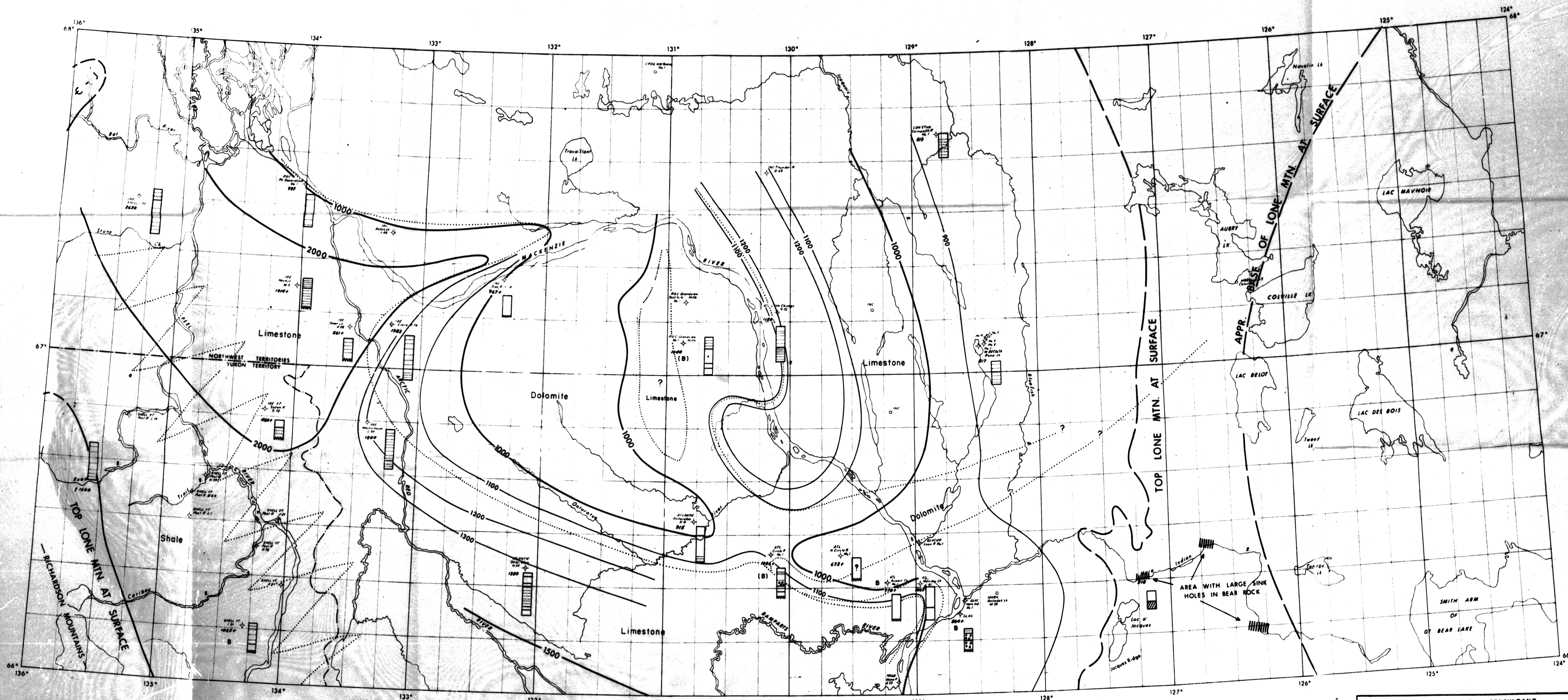


X TOP LONE MTN. FM. DERIVED FROM SURFACE DATA.

B WELL WITH BEAR ROCK FACIES (BRECCIA) EITHER
DOL. LS OR BOTH.

(B) LITTLE BEAR ROCK.

J. H. LICHTENBELT - CONSULTANT	
LOWER MACKENZIE RIVER AREA N.W.T.	
CONTOUR MAP : TOP LONE MTN.	
MAP NO. 4	
CONTOUR INTERVAL 500 FEET DATUM SEA LEVEL	
MAP SCALE 1 INCH = 4 MILES	DATE 1970



- | | |
|---|--|
| <p>--- AREAS WITH POSSIBLE BEAR ROCK FACIES</p> <p>B WELL WITH BEAR ROCK FACIES (BRECCIA)
DOL OR LS OR BOTH</p> <p>(B) LITTLE BEAR ROCK</p> | <p>--- MAINLY DOLOMITE</p> <p>--- LIMESTONE</p> <p>--- SHALE</p> |
|---|--|

J. H. LICHTENBELT - CONSULTANT

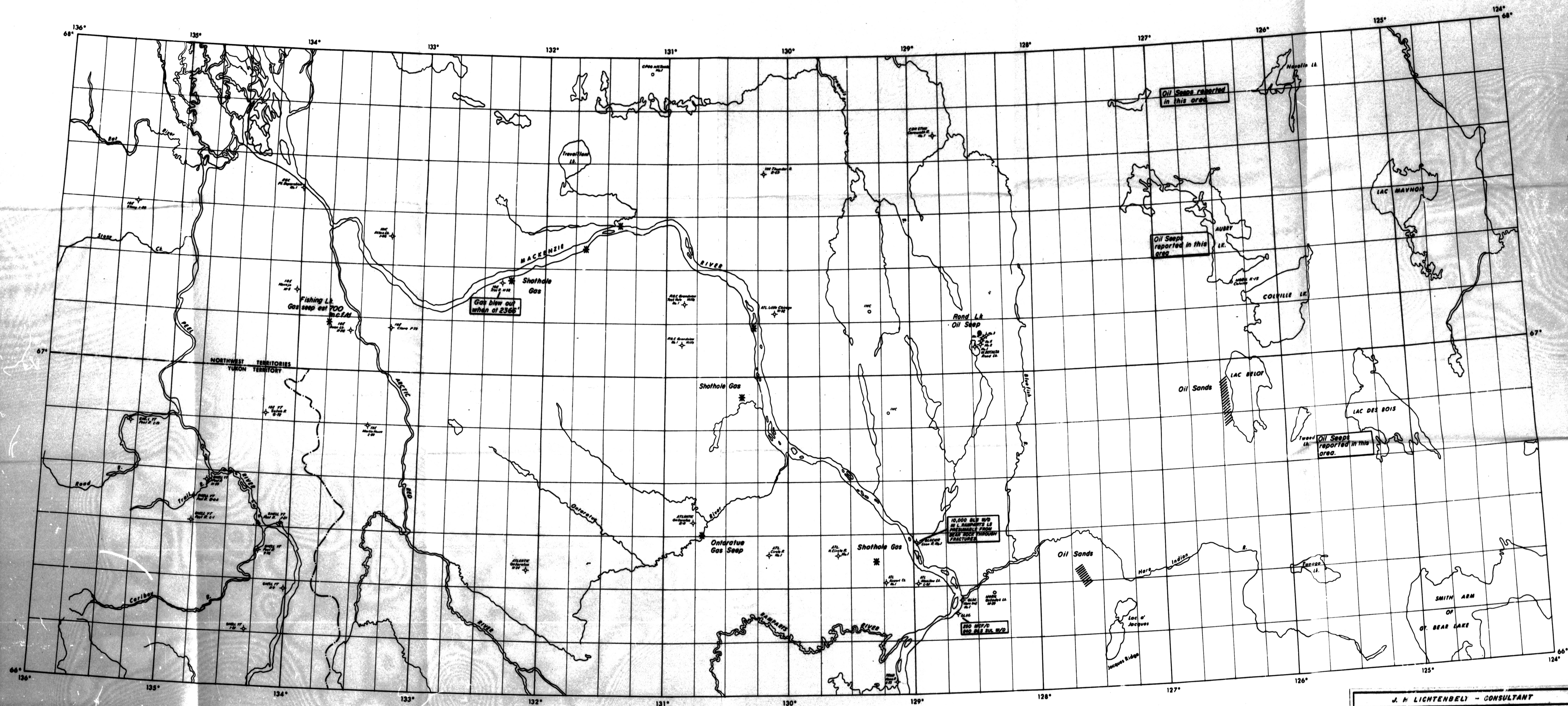
LOWER MACKENZIE RIVER AREA
N.W.T.

ISOPACH - FACIES MAP
LONE MTN - BEAR ROCK FM.

MAP NO. 3

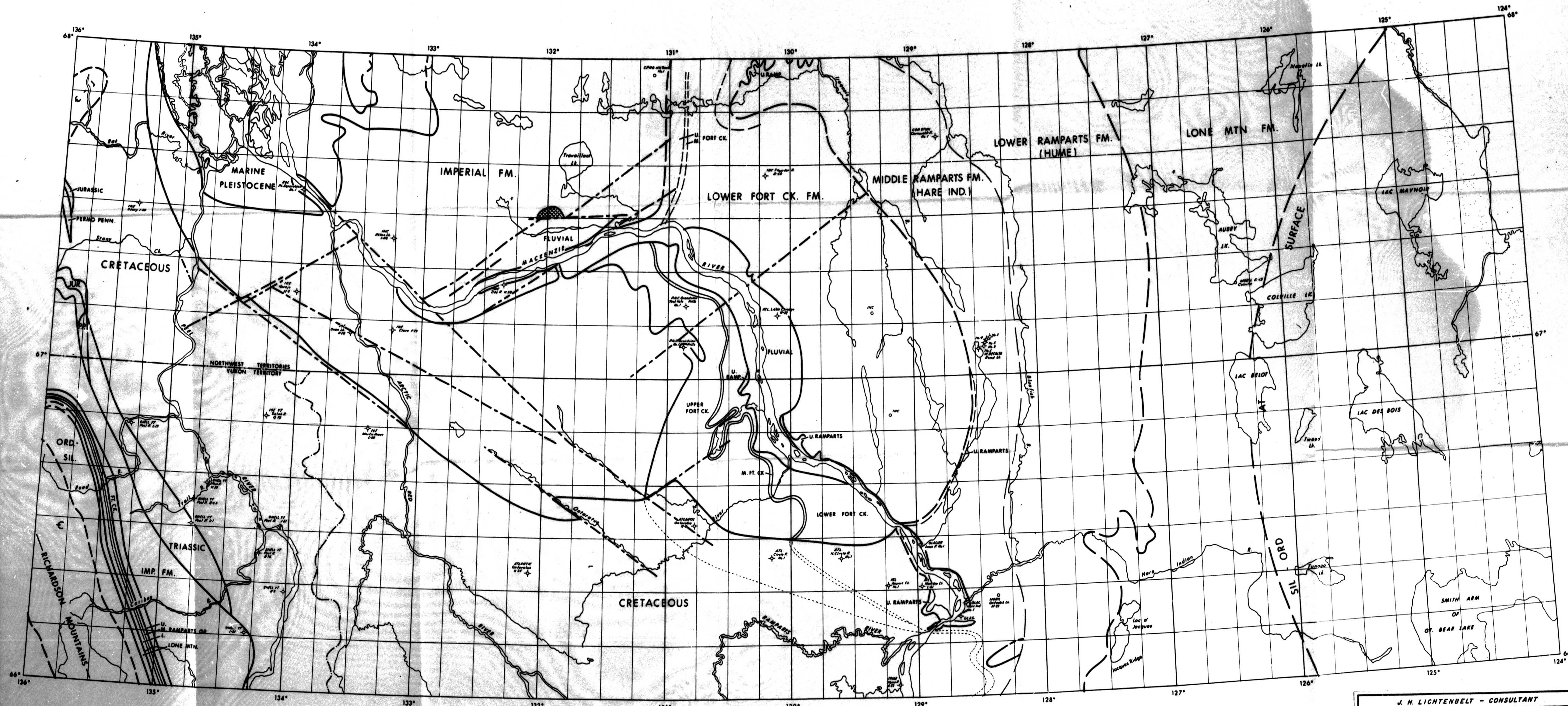
CONTOUR INTERVAL 100 FEET
DATUM SEA LEVEL

MAP SCALE 1 INCH = 4 MILES DATE 1970



Note: There are probably many more gas seeps. Only those in water have been detected, because the water does not freeze over these seeps.

J. H. LIGHTENBELT - CONSULTANT	
LOWER MACKENZIE RIVER AREA	
HYDROCARBON MAP	
MAP NO. 2	
CONTOUR INTERVAL: DATUM:	
MAP SCALE: 1 INCH = 4 MILES	DATE: 1970



J. H. LICHTENBELT - CONSULTANT	
LOWER MACKENZIE RIVER AREA N.W.T.	
SURFACE MAP	
MAP NO. 1	
CONTOUR INTERVAL: DATUM:	
MAP SCALE: 1 INCH = 4 MILES	DATE: 1970

LEGEND

YUKON AND N.W.T.
(TO ACCOMPANY SURFACE MAPS)

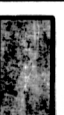


804-1-16-70-1
OKW 10/7

CENOZOIC		☐	QUATERNARY Alluvium (Undivided)	0 - 200 ±	☐	Moraines (Amundsen and Great Bear Lobes)
		☐	TERTIARY AND PLEISTOCENE BEAUFORT FM. (?)	8 - 10		
MESOZOIC	CRETACEOUS	☐	Pale shale zone	450 - 610 ±		
		☐	Bituminous zone	105 - 328		
		☐	Bentonite zone Silty shale zone	90 - 2000 ±	☐	Thin cover over older beds
	JUR.	☐		0 - 1200		
	TRIA.	☐		?		
PALAEOZOIC	PERM.	☐	IMPERIAL FM.	> 2500		
	DEVONIAN	☐	UPPER FORT CREEK	1500 - 2000		
		☐	MIDDLE FORT CREEK SAND	0 - 80		
		☐	LOWER FORT CREEK	250 - 500		
		☐	L. FT. CK. (R.A.)	50 - 100		
		☐	U. RAMPARTS LIMESTONE	0 - 250		
	MIDDLE	☐	M. RAMPARTS SHALE (HARE INDIAN)	250 - 500	☐	Thin cover over Hume
		☐	M. RAMPARTS (R.A.)	50 - 75		
		☐	L. RAMPARTS LIMESTONE (HUME)	500 - 1000		
		☐	LONE MTN. FM.	900 - 2000		
	ORD - SIL.	☐	RONNING GROUP	> 4000		
	CAMB	☐		> 4000		

LEGEND

YUKON AND N.W.T.
(TO ACCOMPANY SURFACE MAPS)

CENOZOIC			QUATERNARY Alluvium (Undivided)	0 - 200 ±		Moraines (Amundsen and Great Bear Lobes)
			TERTIARY AND PLEISTOCENE BEAUFORT FM. (?)	8 - 10		
MESOZOIC	CRETACEOUS		Pale shale zone	450 - 610 ±		
			Bituminous zone	105 - 328		
			Bentonite zone Silty shale zone	90 - 2000 ±		Thin cover over older beds
	JUR.			0 - 1200		
PALAEOZOIC	TRIA.			?		
	MISS PERM			?		
	DEVONIAN		IMPERIAL FM.	> 2500		
			UPPER FORT CREEK	1500 - 2000		
			MIDDLE FORT CREEK SAND	0 - 80		
			LOWER FORT CREEK	250 - 500		
			L. FT. CK. (R.A.)	50 - 100		
			U. RAMPARTS LIMESTONE	0 - 250		
			M. RAMPARTS SHALE (HARE INDIAN)	250 - 500		Thin cover over Hume
			M. RAMPARTS (R.A.)	50 - 75		
	MIDDLE		L. RAMPARTS LIMESTONE (HUME)	500 - 1000		
			LONE MTN. FM.	900 - 2000		
	ORD - SIL		RONNING GROUP	> 4000		
	CAMB			> 4000		

LEGEND

YUKON AND N.W.T.
(TO ACCOMPANY SURFACE MAPS)

CENOZOIC			QUATERNARY Alluvium (Undivided)	0 - 200 ±		Moraines (Amundsen and Great Bear Lobes)
			TERTIARY AND PLEISTOCENE BEAUFORT FM. (?)	8 - 10		
MESOZOIC	CRETACEOUS		Pale shale zone	(>3500)	450 - 610 ±	
			Bituminous zone		105 - 328	
			Bentonite zone Silty shale zone		90 - 2000 ±	
	JUR.			0 - 1200		
	TRIA.			?		
PALAEOZOIC	MISS PERM			?		
			IMPERIAL FM.	>2500		
	DEVONIAN		UPPER FORT CREEK	1500 - 2000		
			MIDDLE FORT CREEK SAND	0 - 80		
			LOWER FORT CREEK	250 - 500		
			L. FT. CK. (R.A.)	50 - 100		
			U. RAMPARTS LIMESTONE	0 - 250		
	MIDDLE		M. RAMPARTS SHALE (HARE INDIAN)	250 - 500		Thin cover over Hume
			M. RAMPARTS (R.A.)	50 - 75		
			L. RAMPARTS LIMESTONE (HUME)	500 - 1000		
			LONE MTN. FM.	900 - 2000		
	ORD - SIL		RONNING GROUP	>4000		
	CAMB			>4000		