

Hare Indian - Kee Scarp -
Canol Formations

Final Report on 1969 Geological
Field Party

in N.W.T. June 12 to July 29, 1969

Government Project 45-1-5-69-1

EXPLORATION PROGRESS REPORT

Hare Indian - Kee Scarp and Canol Formations
in the Northwest Territories

This report covers work by Chevron Standard Limited during the period of June 12 to July 29, 1969. This report is submitted in support of application for work credits. This application is Government Project Number 45-1-5-69-1 in your files, and Groups 203 and 202.



R. Schreiner

Report prepared by: Rolf Schreiner

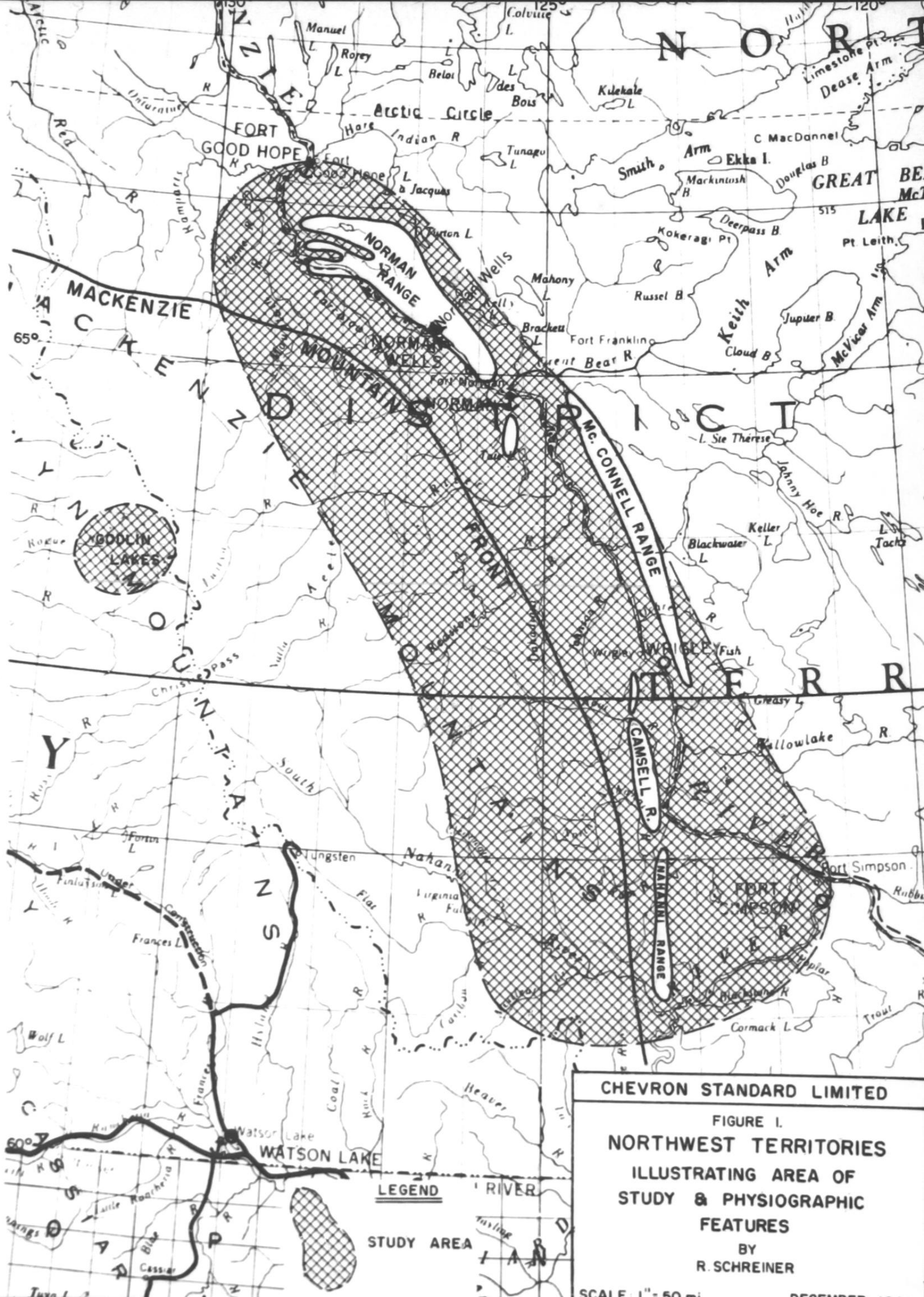
under direct supervision of
H. R. Hovdebo, P. Geol. (Alberta)

H. R. Hovdebo

ILLUSTRATIONS

- Figures: 1. Area of study and physiographic features.
2. Devonian age correlations in the Northwest Territories.

- Plates: 1. Area covered by 1969 field party.
2. Mackenzie Mountains and Franklin Mountains area; showing physiographic features, surface locations of sections measured in 1969, and type sections measured.



CHEVRON STANDARD LIMITED

FIGURE I.
NORTHWEST TERRITORIES
ILLUSTRATING AREA OF
STUDY & PHYSIOGRAPHIC
FEATURES

BY
R. SCHREINER

SCALE 1" = 50 mi

DECEMBER

SECTIONS

005001	005034	005064
005002	005035	005065
005003	005036	005069
005005	005037	005070
005006	005038	005071
005007	005039	005072
005008	005040	005073
005009	005041	005074
005010	005042	005075
005011	005043	005076
005012	005044	005077
005013	005045	005079
005015	005048	005090
005016	005052	005091
005018	005051	005092
005019	005053	005096
005021	005054	005098
005022	005055	005099
005024	005057	005100
005026	005058	005101
005029	005059	005102
005030	005060	005104
005031	005061	005105
005032	005062	005106
005033	005063	005107
		005108
		005109

EXPLORATION PROGRESS REPORT

Hare Indian - Kee Scarp and Canol Formation in the Northwest Territories

Introduction

The 1969 field party used a contracted Bell helicopter and a float equipped, Chevron owned, Beaver for its transportation in the field. Four base camps were used, as shown on accompanying map. The party started in the north and moved south as work progressed.

The field crew consisted of:

P. Verrall	Party Chief
H. Evers	Senior Geologist
R. Schreiner	Senior Geologist
T. Chupa	Geological Technologist
P. Doyle	Student Geologist
N. Schultheis	Student Geologist
H. S. Walton	Palynologist
D. Mason	Paleontologist
B. Yonge	Geologist
L. Dekker	Geologist

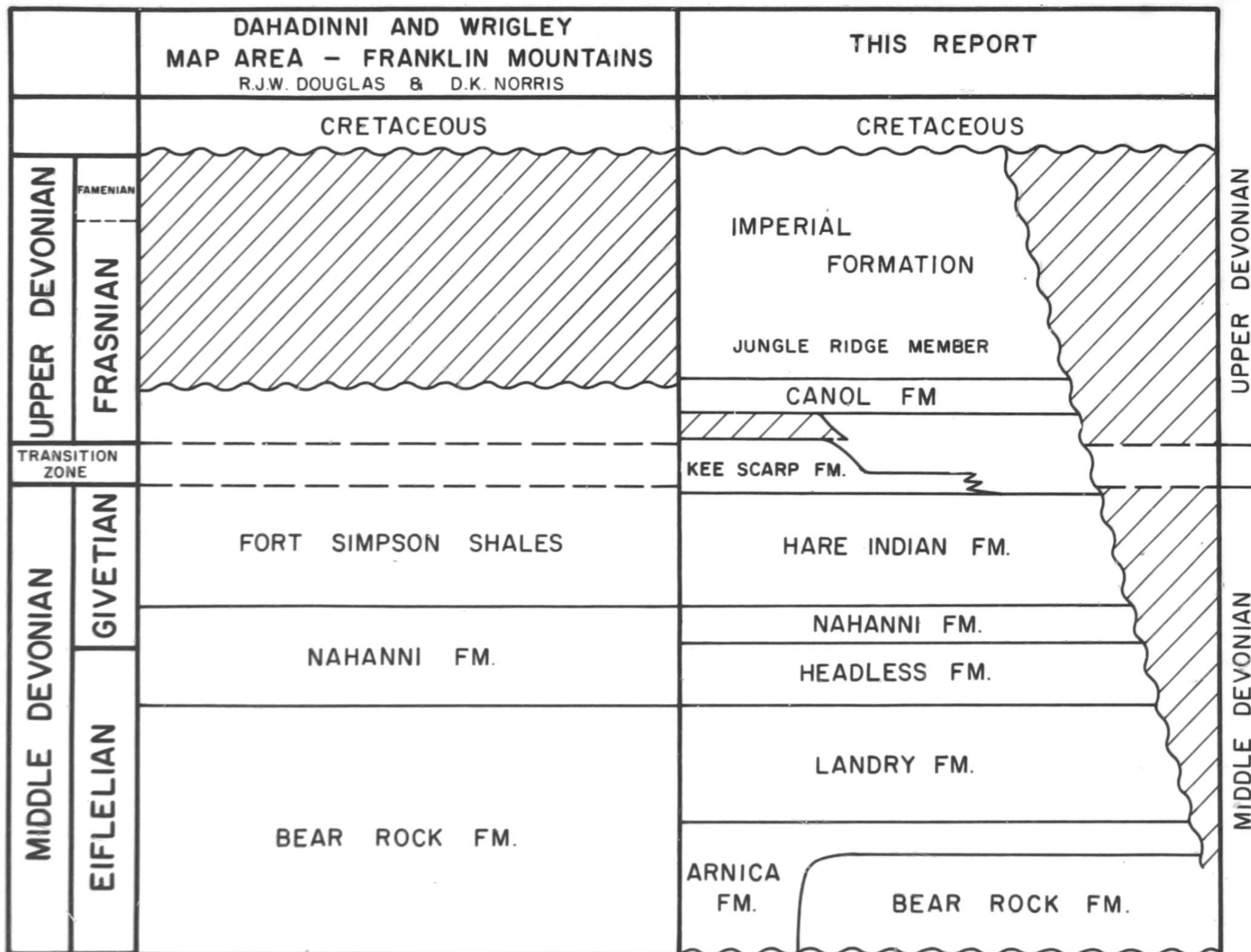
Geology

The two main objectives were:

1. Measure stratigraphic sections along the eastern side of the Mackenzie Mountains. The formations measured were:

The Hare Indian shales
The Kee Scarp carbonates
The Canol shales

Some difficulty was encountered in measuring shale sections due to poor exposure. Samples were collected from all the sections for further paleontological work. Collection of this part of the section will enable us to obtain a better understanding of late, middle and upper Devonian sediments in the Northwest Territories part of the Western Canadian sedimentary basin.



2. All type sections of Geological Formations encountered in the area were measured and sampled for paleontological reference data.

All measured sections are shown on Plate 2 and lithologic strip logs are enclosed.

SECTION 005109 LAT 61° 12' N
 Lsd. Sec. Twp Rge M LONG 123° 21' W
 FORMATION LANDRY HEADERS NAHANNAGE DEVONIAN
 LOCALITY NAHANNA TYPE (BLUE FISH LAKE)
 GRID AREA 95-G-SW PHOTO A11942-41
 MEASURED BY RSCHREINER & YONKE LPEKKE DATE JULY 28-69
 PLOTTED BY R SCHREINER + S. TODD DATE SEPT 30-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucinite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP B FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

107

SECTION 025108 LAT 61° 52' N
 Lsd. Sec. Twp Rge M LONG 124° 53' W
 FORMATION SOMBRE ARNICA AGE LR-MID DEVONIAN
 LOCALITY TUNDRA RIDGE
 GRID AREA 95-F-NE PHOTO A12333-247
 MEASURED BY B. YONGE & T. CHUPA DATE JULY 23-25-69
 PLOTTED BY B. YONGE & S. TODD DATE SEPT 26-69
 SOURCE OF DATA SECTION.
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

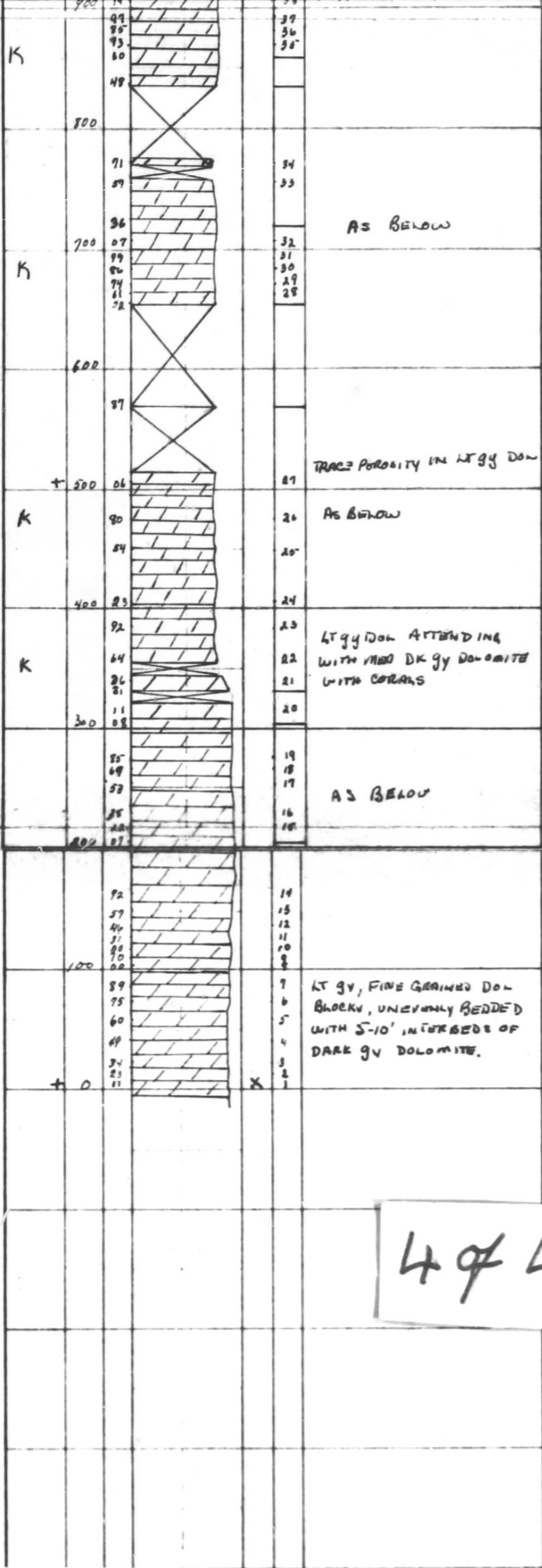
	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	1200	47				178	FUNERAL SHALE SH DK GY. PLATY CALC. BUFF-WEATHERING
							TOP OF ARNICA IN COVERED INTERVAL

1 of

		47		178	FUNERAL SHALE SH DK gy. PLATY CALC. BUFF - WEATHERING
	3200				
					TOP OF ARNICA IN COVERED INTERVAL
	3100				
C	3000	21		174	DOLOMITE LT gy MED TO COARSE GRAINED
		77			
		25		173	
	2900	15		172	DOLOMITE LT gy BELOW
		90		171	
		76		170	DOLOMITE LT gy FINE GRAINED BLOCKY, UNEVEN BEDDING DK gy INTERBEDS UP TO 2900
		57			
		43			
		39		169	
	2800	12		168	
		95		167	
		64		166	DOLOMITE MED gy. COARSE TO FINE GRAINED, PARTLY ASSOCIATED CHERT INECTIONS AND NODULES
	TOP SOMERSET			165	
		19		164	
		13			2713 BARE ARNICA?
	2700	00		163	
		92			
		63		162	
		47		161	
		33			
		18		160	
	2600	06		159	
		93		158	
		77		157	
		64		156	
		53			
		47		155	AS BELOW
		35		154	
		22		153	
	2500	09		152	
		96		151	
		82		150	
		75			
		47		149	
		44		148	
		32		147	
		20		146	
	2400	08		145	
		96		144	
		80		143	
		65		142	
K		49		141	
		34		140	
		17		139	
	2300	01		138	
		84		137	
		69		136	
		55		135	
		44		134	
		32		133	
		20		132	
K	2200	08		131	
		98		130	
		80		129	
C		66		128	2' BOND RICH IN COINOLDS
		52		127	
		38		126	
		26		125	
	2100	10		124	
		96		123	
		82		122	LT gy DOLOMITE BUFF WEATHERING FLAGGY ATTENUATING WITH DARK gy DOLOMITE WITH LOTS OF CALCITE ARE REPLACING FOSSILS
		68		121	
		55		120	
K		36		119	
		20		118	
	2000	04		117	
		83		116	
		74		115	
		60		114	
		47		113	
		33		112	
		19		111	
	1900	07		110	
		98		109	
		85		108	
		77		107	LT gy DOLOMITE WEATHERING

2 of



4 of 4

SECTION 005107 LAT 61° 54' N
 Lsd. Sec. Twp Rge M LONG 126° 48' W
 FORMATION NAHANNI-FORT CREEK AGE DEVONIAN
 LOCALITY ?
 GRID AREA 95-F-NW PHOTO A12295-52
 MEASURED BY B. YONG + T. CHUPA DATE JULY 12-69
 PLOTTED BY S. TODD DATE OCT 2-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
o	Finely Fragmental
o o	Medium Fragmental
o o o	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst. or Gran.
 o Finely Fragmental
 oo Medium Fragmental
 ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
		59			10		SH INTERBED W. MIC BED
	100						
C.K.		81			9		SH IS SILICEOUS IN PARTS mic gg
	0	42 30 24 17 10 7			5 4 3 2 1		

2 of 2

SECTION 005106 LAT 61° 57' N
 Lsd. Sec. Twp Rge M LONG 125° 19' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY ?
 GRID AREA 95-F-NW PHOTO A12319-
 MEASURED BY B YONGE D MASON DATE JULY 20-69
 PLOTTED BY S. TODD DATE OCT 2-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

i	Cryptocrystalline
ii	Microcrystalline
x	Finely Cryst. or Gran
xx	Medium Cryst. or Gran
xxx	Coarse Cryst. or Gran
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

107

-  Sandstone
-  Limestone
-  Calcareous Shale
-  Dolomite
-  Dolomitic Shale

-  Chert
-  Anhydrite
-  Conglomerate
-  Breccia
-  Covered

ACCESSORIES

-  Ironstone
-  Carb. Flecks
-  Pyrite
-  Crinoidal
-  Bitumen
-  Salt Casts
-  Glaucanite
-  Coal or Coaly
-  Micaceous
-  Algal or Strom
-  Oil Stain
-  Bentonite

POROSITY

- | VUGGY | INTERGRAN |
|---------|-------------------|
| o | Poor + |
| o o | Fair + - |
| o o o | Good + - - |
| o o o o | Very Good + - - - |

SAMPLES

- F Fossil
- L Lithology
- P Porosity

CRYSTAL OR GRAIN SIZE

- I Cryptocrystalline
- II Microcrystalline
- x Finely Cryst. or Gran.
- xx Medium Cryst. or Gran.
- xxx Coarse Cryst. or Gran.
- o Finely Fragmental
- oo Medium Fragmental
- ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
TENTAC		90				6	
		68				5	
		56				4	SH DIS 9Y PLATY
		48				3	
TOP NAHANNI							
C		41				2	mic 9Y
	2	1				1	

2 of 2

SECTION 005105 LAT 61° 45' N
 Lsd. Sec. Twp Rge M LONG 125° 10' W
 FORMATION NAHANN - FORT CREEK AGE DEVONIAN
 LOCALITY ?
 GRID AREA 95-F-NW PHOTO A12250-223
 MEASURED BY B YONGE - D ORGAN DATE JULY 20-69
 PLOTTED BY S. TODD DATE OCT 2-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

 Dolomitic Shale

 Breccia
 Covered

ACCESSORIES

- | | |
|--|--|
|  Ironstone |  Glauconite |
| C Carb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
| O Crinoidal |  Algal or Strom |
| B Bitumen |  Oil Stain |
|  Salt Casts | xx Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| a | Finely Fragmental |
| aa | Medium Fragmental |
| aaa | Coarsely Fragmental |

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
		20 10 0				4 3 2 1	SH DK gy INTERBEDD w. MICRITE MICRITE DK gy

292

SECTION 005104 LAT 61° 37' N
 Lsd. Sec Twp Rge M LONG 125° 13' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY VERA CREEK
 GRID AREA 95-F-NW PHOTO A12280-219
 MEASURED BY B. YONGE-D. MASON DATE JULY 20-69
 PLOTTED BY S. TODD DATE OCT 2-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Grinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

19

☐ Covered

ACCESSORIES

- | | | | |
|---|--------------|---|-----------------|
|  | Ironstone |  | Glauconite |
| C | Carb. Flecks |  | Coal or Coaly |
|  | Pyrite | A | Micaceous |
| O | Crinoidal |  | Algal or Strom. |
| B | Bitumen |  | Oil Stain |
|  | Salt Casts | xx | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|-----------|
| o | Poor |
| o o | Fair |
| o o o | Good |
| o o o o | Very Good |

SAMPLES

- F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microncrystalline |
| X | Finely Cryst. or Gran. |
| XX | Medium Cryst. or Gran. |
| XXX | Coarse Cryst. or Gran. |
| a. | Finely Fragmental |
| aa | Medium Fragmental |
| aaa | Coarsely Fragmental |

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
C	100	44 38 19 08 07 86 95 63 82 41 29 12			12 11 10 9 8 7 6 5 4 3 2 1		SHALE WITH CHERT BANDS LST AND CHERT INTERB SH RED, SHELT BLOCKS

2

2 of 2

SECTION 005101 LAT 63° 20' N
 Lsd. Sec. Twp Rge M LONG 123° 12' W
 FORMATION TYPE FRANKLIN MTN AGE CAMBRO-ORDOVICIAN
 LOCALITY

GRID AREA 95-0-SW PHOTO A12529-292

MEASURED BY B. YONGE & D. MASON DATE JULY 16-17-69

PLOTTED BY B. YONGE & S. TODD DATE SEPT 29-69

SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

- | | |
|--|---|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|---|--|
|  Ironstone |  Glaucanite |
|  Carb Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

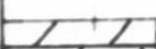
- | VUGGY | INTERGRAN |
|---|--|
|  Poor |  + |
|  Fair |  ++ |
|  Good |  +++ |
|  Very Good |  ++++ |

SAMPLES

- | |
|---|
|  Fossil |
|  Lithology |
|  Porosity |

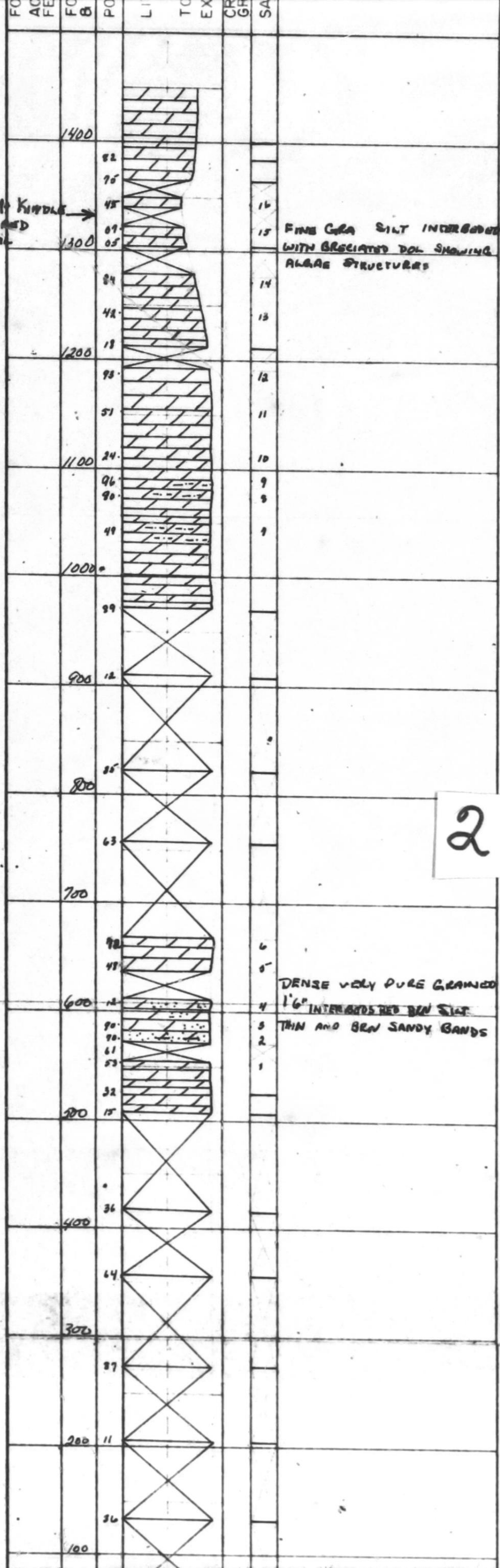
CRYSTAL OR GRAIN SIZE

- | |
|---|
|  Cryptocrystalline |
|  Microcrystalline |
|  Finely Cryst or Gran. |
|  Medium Cryst or Gran. |
|  Coarse Cryst or Gran. |
|  Finely Fragmental |
|  Medium Fragmental |
|  Coarsely Fragmental |

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
							
	1400						

10

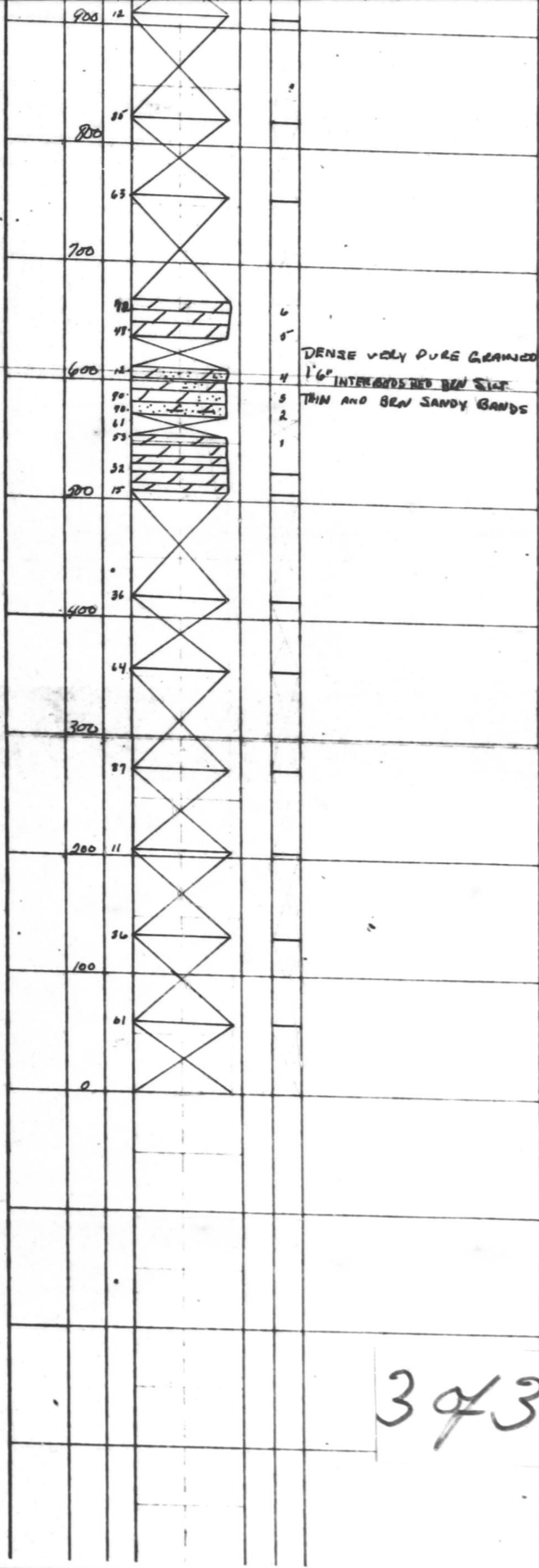
Base M. Kiddle
in covered
interval



FINE GRA SILT INTERBEDDED
WITH BRACIATED DOL SHOWING
ALGAL STRUCTURES

DENSE VERY PURE GRAINED
1'6" INTERBEDDED BRN SILT
THIN AND BRN SANDY BANDS

2 of



DENSE VERY PURE GRAINED
1'6" INTERBEDDED BEN SILT
THIN AND BRN SANDY BANDS

39/3

SECTION 005098 LAT 62° 02' N
 Lsd. Sec Twp Rge M LONG 124° 25' W
 FORMATION NAHANNI / HARE INOANGE M & W. DEVONIAN
 LOCALITY S OF N. NAHANNI RIVER CANYON
 GRID AREA NTS 95-K-SE PHOTO A 12042-89
 MEASURED BY EVERS/SCHULTHEIS/CHUPA DATE JULY 17/69
 PLOTTED BY H.J. EVERS DATE AUG. 29/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Ooloidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of 1

100

TENT
B, C, (A?)
PYRITE
TENT.
CON? 50

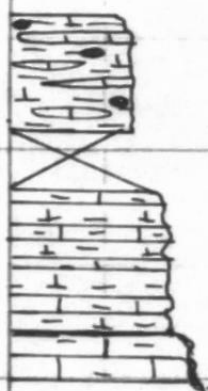
BIT. 40

PYRITIC 30

20

B, C, K, Z, 0 10

GASTR.
FES₂



NAHANNI FM.

10
9
8
7
6
5

SOME LS. BEDS CONSIST 25% TENT.
BL. / OR SY. PYRITIC MICRITE
INTERBEDDED WITH OR. SY.
CAL. MUDSTONES + NODULES

X

HARE INDIAN FM.

4

GRADUAL (FACIES?) TRANSITION
INTO ARG. MICRITES & CAL. MUD-
STONES, WELL BEDDED,

3

MODERATE, SHARP, BLOCKY-PLATY

2

OR. SY. PYRITIC, ARG. MICRITE,

1

RES., SHARP-UNEVEN

SECTION 005100 LAT 68°20' N
 Lsd. Sec. Twp Rge M LONG 123°12' W
 FORMATION M'KINDLE TYPE AGE ORDOVICIAN-SILURIAN
 LOCALITY MC CONNELL RANGE
 GRID AREA 95-0-SW. PHOTO A12579-392
 MEASURED BY B. YONGE & D. MASON DATE JULY 16, 17-69
 PLOTTED BY S. TODD DATE OCTOBER 2-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair --
o o o	Good ---
o o o o	Very Good +++

SAMPLES

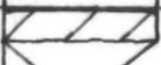
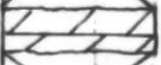
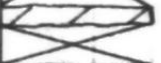
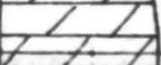
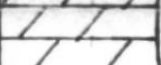
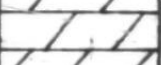
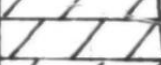
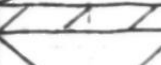
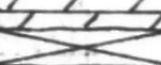
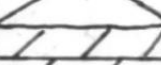
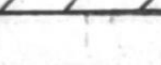
F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

10

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	1000						
	900	26					
		98			23		
	800	29			22		
		62			21		
	700	26			20		
		77			19		
		48			18		
	600	38			17		
							
	500						DOL LT gy AS BELOW
							
K	400						
		60			16		
	300						
		75			15		
		63			14		
		33			12		
		30			11		
		23			10		
		08			9		
	200	04			8		
		90			7		
K		87			6		LARGE CORALS
		71			5		
		44			4		
	100	14			3		
							
K.B.							DOL AT gy MASSIVE
	0	20			2		
		10			1		

2 of 2

- Aqueous solution
- Oil Soluble
- Bentonite

POROSITY

VUGGY

5

20

0 0 0

□ □ □ □

INTERGRAN

Page

File

Good

Very Good + + + +

SAMPLES

 $r = r_{\text{gas}}(1)$

Lithology

P Porosity

CRYSTAL OR GRAIN SIZE

i Cryptocrystalline

11 Microcrystalline

x Finely Cryst of Gran.

5.8 Medium Cryst. or Grain

xxx Coarse Cryst or Gran

o Finely Fragmental

Medium Fragmental

see Coarsely Fragmental

[illegible]

SECTION 005092 LAT 61° 52' N
 Lsd. Sec. Twp Rge M LONG 124° 53' W
 FORMATION DELOME-GAMSELL-SUMAGE DRG.-SIL. & LOEVONIAN.
 LOCALITY TUNDRA RIDGE
 GRID AREA NTS 95-F-NE PHOTO A 12022-290
 MEASURED BY EVERS, DEKKER, SCHULTHEIS / DATE JULY 23-26/69
 PLOTTED BY H. J. EVERS & S. TODD DATE AUG. 31/69
 SOURCE OF DATA SECTION
 REMARKS (PARA-)TYPE SECTIONS: SS.C., UNION OIL AND
MANY OTHER CIES. MEASURED THIS SECTION BEFORE

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

10

● TOP OF PEAK ON RIDGE
CONTINUED IN SECTION 005108, SAMPLE 1

	5700	5695		161	AS BELOW
		5669		162	
		5652		163	
		5636		164	
	5600	5609		165	
		5602		166	OK. L. SY. OOL., RES., UNEVEN,
K		5586		167	MASSIVE - FLAGGY.
		5572		168	
		5558		169	
		5542		170	
		5531		171	
	5500	5517		172	
		5502		173	
		5486		174	
		5470		175	
		5455		176	
		5439		177	SADDLE
	5400	5416		178	
		5404		179	AS BELOW
		5392		180	
		5380		181	
		5370		182	
		5360		183	
		5350		184	
		5340		185	
		5330		186	
	5300	5311		187	MOST RESISTANT MASSIVE BANK
		5301		188	L. SY., POSS. OOL., MASSIVE, UN-
A, K, POSS. OOL.		5291		189	EVEN, RESISTANT SLABBY
		5282		190	
		5267		191	
		5253		192	
		5239		193	
		5224		194	
	5200	5210		195	
		5197		196	
		5183		197	
		5170			SADDLE → MODERATE
		5157		231/268	WELL GEORED
		5143		232	L. OK. SY. OOL., RES. - MODERATE,
A, K		5128		233	UNEVEN, BLOCKY - SLABBY.
	5100	5112		234	
		5097		235	
		5081		236	
		5066		237/158	L. OK. SY. ARG. OOL., RESISTANT,
K, B.		5049			UNEVEN, MASSIVE - SLABBY.

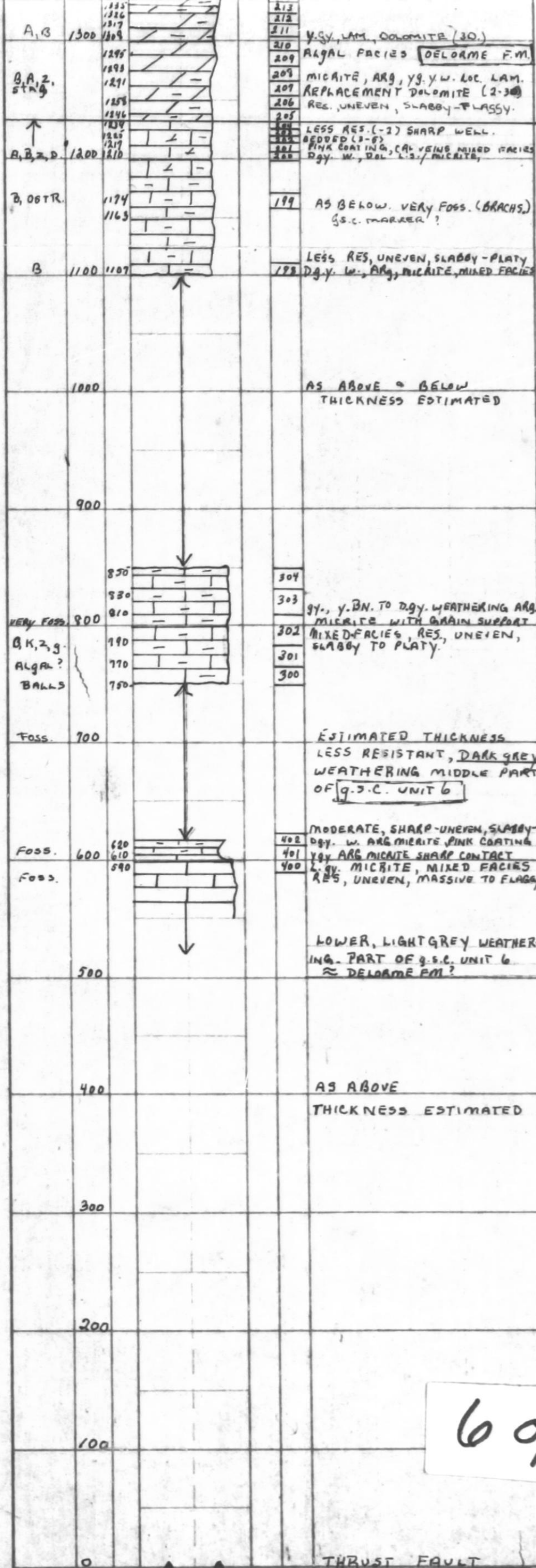
2 of

A, K	5100	5177	231/268	WELL BEDDED
		5178	232	L. OK. SY. DOL., RES. - MODERATE,
		5179	233	UNEVEN, BLOCKY - SLABBY.
		5180	234	
K, B.	5000	5231	235	
		5266	236	
		5269	237/158	L. OK. SY. ARG. DOL., RESISTANT,
		5272	238	UNEVEN, MASSIVE - SLABBY.
		5273	239	
		5274	240	
		5275	241	
		5276	242	AS BELOW
A, K	4900	5277	243	
		5278	244	
		5279	245	
		5280	246	
A, K	4800	5281	247/159	
		5282	248	
		5283	249	
		5284	250	LOC. BRECCIATED BUT SYN. - SSO?
A, K.	4800	5285	251	L. OK. SY. BIT. DOL., ALGAL FACIES
		5286	252	MODERATE, UNEVEN
		5287	253	BLOCKY - PLASSY. SOMERE FM
		5288	254	SADDLE = LESS RES. - MOD. ↑
BIT. ? A, K, Z, B STAG. ?	4700	5289	255	156/256 L. OK. SY. Y. WEATHERING, SIL
		5290	256	ARG. - SILTY, BIT. DOL. ↓
		5291	257	FOSSILIFEROUS CAMSELL FM
		5292	258	RES. - MODERATE POST-BRECCIATED
A, B, K, Z GASTR.	4600	5293	259	SHARP - UNEVEN, SLABBY - PLATY.
		5294	260	LOCALLY BRECCIATED (POST-SSO?)
		5295	261	ALGAL FACIES
		5296	262	
		5297	263	
		5298	264	
		5299	265	Y. BN. SY. ARG. DOL., X-LAM.
		5300	266	
		5301	267	L. SY. ARG. DOL., ALGAL FACIES
		5302	268	RES. - MODERATE, SHARP - UNEVEN,
		5303	269	SLABBY - PLATY, LAM., X-BEEDING
		5304	270	
		5305	271	
		5306	272	
		5307	273	
		5308	274	
		5309	275	
		5310	276	
		5311	277	
		5312	278	
		5313	279	
		5314	280	
		5315	281	
		5316	282	
		5317	283	
		5318	284	
		5319	285	
		5320	286	
		5321	287	
		5322	288	
		5323	289	
		5324	290	
A, B, K, Z	3900	5325	291	STUDY SAMPLE FOR
		5326	292	LITHOLOGY DESCRIPTION
		5327	293	
		5328	294	
		5329	295	
		5330	296	
		5331	297	
		5332	298	
		5333	299	
		5334	300	
		5335	301	
		5336	302	
		5337	303	
		5338	304	
		5339	305	
		5340	306	
		5341	307	
		5342	308	
		5343	309	
		5344	310	
		5345	311	
		5346	312	
		5347	313	
		5348	314	
		5349	315	
		5350	316	
		5351	317	
		5352	318	
		5353	319	
		5354	320	
		5355	321	
		5356	322	
		5357	323	
		5358	324	
		5359	325	
		5360	326	
		5361	327	
		5362	328	
		5363	329	
		5364	330	
		5365	331	
		5366	332	
		5367	333	
		5368	334	
		5369	335	
		5370	336	
		5371	337	
		5372	338	
		5373	339	
		5374	340	
		5375	341	
		5376	342	
		5377	343	
		5378	344	
		5379	345	
		5380	346	
		5381	347	
		5382	348	
		5383	349	
		5384	350	
		5385	351	
		5386	352	
		5387	353	
		5388	354	
		5389	355	
		5390	356	
		5391	357	
		5392	358	
		5393	359	
		5394	360	
		5395	361	
		5396	362	
		5397	363	
		5398	364	
		5399	365	
		5400	366	

39

		2498	73	
		2454	72	SADDLE IN RIDGE
		2470	71	MODERATE RESISTANCE TO W.
		2456	70	Y. BN. SY. ARG. DOL.
		2444	69	
		2433	68	
		2421	67	
2400		2409	66	ALGAL FACIES
		2397	65	
		2384	64	
		2371	63	
		2358	62	
		2344	61	
		2331	60	
2300		2318	59	
		2306	58	
		2293	57	
		2280	56	
		2268	55	
		2256	54	
		2243	53	
		2230	52	
2200		2218	51	
		2206	50	
		2198	49	
		2185	48	
		2173	47	
		2161	46	
		2149	45	
		2134	44	
2100		2120	43	AS BELOW
		2108	42	
		2091	41	
		2076	40	
		2065	39	
		2053	38	
STAG. A		2042	37	
		2030	36	VUGGY
2000		2019	35	Y-SY. DOL.
		2007	34	
		1995	33	BRECCIATED ALGAL BANKS
		1983	32	
		1971	31	VUGGY
A, B, Z		1959	30	
		1947	29	STROMATOLITE BANKS
		1935	28	
		1923	27	
1900		1911	26	
		1899	25	AS ABOVE / BELOW
		1885	24	
		1871	23	
		1857	22	
A.		1843	21	ALGAL FACIES, LAM.
B, Z.		1829	20	SPONGE SPICULES
1800		1814	19	→ VUGGY POR.
		1799	18	
		1783	17	
		1768	16	
		1753	15	L. DRG. DOL. RES. SHARP-UNEVEN
A, B, Z,		1739	14	→ VUGGY POR. WELL-BEDDED
		1725	13	
1700		1711	12	
		1697	11	
		1683	10	VUGGY POR. + SEC. DOL. FILLING.
00		1670	9	
		1656	8	
		1642	7	
		1628	6	
1600		1614	5	← SOME VUGGY POR.
		1600	4	
		1585	3	SEC. DOL. VEINS
		1571	2	DC & L. SY. TO Y. SY. W. DOL. / ARG.
		1556	1	← SADDLE IN RIDGE
		1542	270	FINE BRECCIATED DOL. (30)
1500		1528	229	MODERATE, EVEN, MASSIVE TO
		1515	228	PLATY.
		1501	227	
		1487	226	
		1476	225	
		1463	224	
		1451	223	
		1438	222	
		1425	221	
1400		1413	220	AS BELOW
		1401	219	
		1389	218	VERY WELL & EVEN BEDDED!
		1377	217	
A, B, OVER		1363	216	
		1353	215	
		1344	214	
		1335	213	
		1326	212	
A, B		1317	211	Y. SY. LAM. DOLOMITE (30.)
1300		1309	210	ALGAL FACIES [DELOME F.M.]
		1295	209	
		1283	208	MICRITE, ARG, YG. Y.W. LOC. LAM.
B, A, Z,		1271	207	REPLACEMENT DOLOMITE (2-30)
STAG.		1258	206	REC. UNEVEN, SLABBY-FLASSY.
		1246	205	
		1234	204	LESS RES. (-2) SHARP WELL.
		1225	203	BEDDED (3-5)
		1217	202	PINK COATING, CAL. VEINS MIXED FACIES
A, B, Z, D		1210	201	DOL. W. DOL. L.S. / MICRITE,
		1200	200	

5



6 of 6

SECTION 005091 LAT 61° 38' N
 Twp _____ Rge _____ M _____ LONG 125° 47' W
 FORMATION TYPE SUNBLOOD AGE M(?) ORDOVICIAN
 LOCALITY SUNBLOOD MTN. (25100) NW VIRGINIA FALLS
 GRID AREA N.T.S. 95-F-N.W. PHOTO A 1233-86
 MEASURED BY EVERS/DEKKER/SCHULT DATE JULY 20/69
 PLOTTED BY H.J. EVERS + S. TODD DATE AUG 18/69
 SOURCE OF DATA SECTION
 REMARKS FOLLOWED ROUGHLY SAME TRACE AS G.S.C
AND CY. SECTION (39) , ALONG W. RIDGE OF SUN-
BLOOD MTN. DOWN TO DEP. OF WATER RESOURCES
 CABIN

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Microsiliceous SILICEOUS
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o .	Fair ++
o o o .	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	↑ Footage From Base of FM						
	↓ Footage as measured from top						
							RONNING FM / WHITTAKER FM.

1 of

↑
FOOTAGE FROM BASE OF FM

RONNING FM / WHITTAKER FM.

TOP BUNBLOOD MTN + CAIRN EASY MAPPABLE MARKER
3833 0 (ARBITRARY CUT-OFF)

3800 8
A? ↓ 36 43
1. ORANGE W. MICRITE
RES. UNEVEN, SLABBY-FLASSY

2. L. TO D. GY. MICRITE, NOO.
ALGAL FACIES

AS ABOVE

B, OSTR 98 106
3. PINK W. ARG. LAM. & NOO. SIL.
O. GY., MICRITE + CALC. VEINS

3700

4. BUFF W. AS ABOVE

B, C, OSTR

6. L. GY., SHARP, RES., MICRITE
MASSIVE TO FLASSY

3600

5. LOC. NOODULAR BEDDINGS

214 221
241 248
259

308

7. L. GY., FERRUGINOUS MICRITE
ALGAL FACIES + PELLETS
AS ABOVE

3500
A, B 335
Fz 342

8. AS ABOVE (ALGAL SITE?)

A, B, C 372
Fz 380

9. ALGAL-PELLETOIDAL FACIES
PINK COATING.
GY. MICRITE WITH APP.
GRAIN SUPPORT

A, B, C, Z 417
GASTR 423
3400

10. V. COARSE GRAINED OOL. LENS
GY., ARG., OOL., MICRITE
RES., SHARP-UNEVEN, BLOCKY
TO FLASSY. PELLETOIDAL FACIES

456 461 465 470

11. MICRITE (1)

B 496 502

12. A.A.

3300 537 543

13. Y., L. GY. OOL.

PINK W., ARG., OOL. LS.

568 574

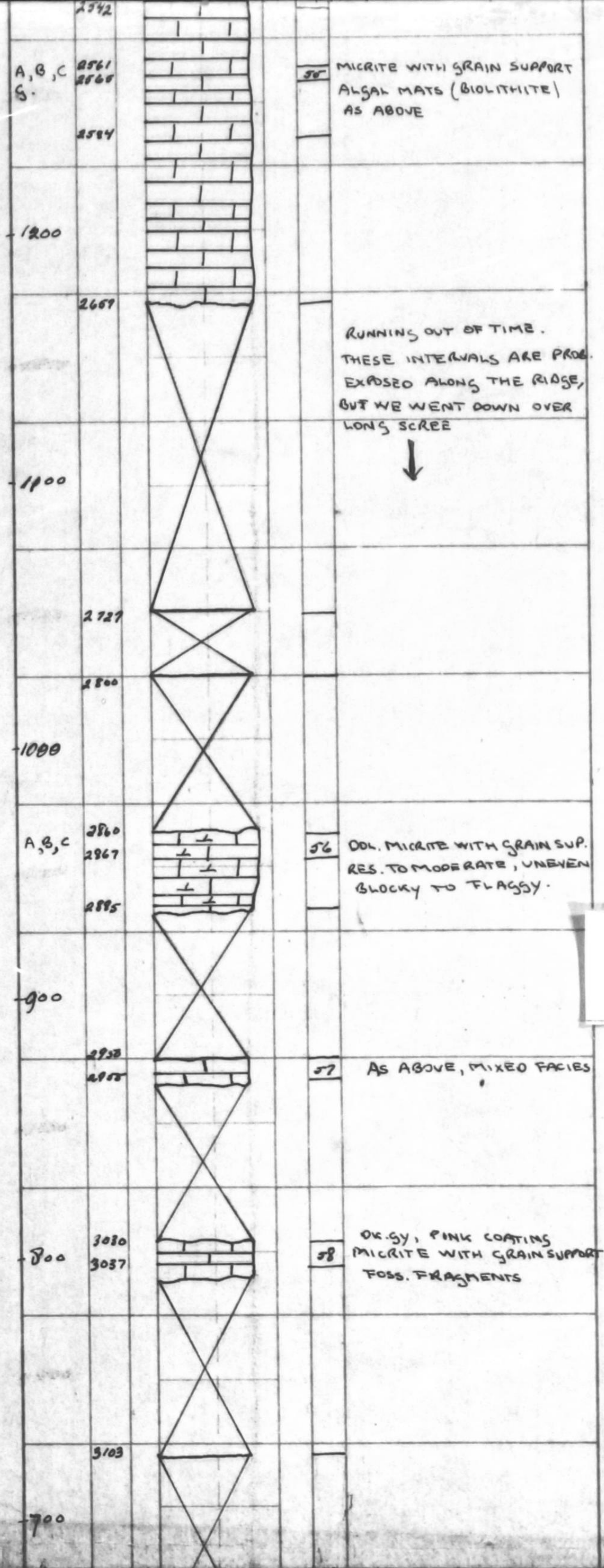
14. GY., OOL., MICRITE (2)
PELL. FACIES

B, C 623
3200 636

207

Depth (ft)	Core Description	Stratigraphic Unit	Notes
623			PINK W., ARG., DOL. LS.
636			
681			
684			
666			
669			
680			
685			
686			
688			
689			
699			
709			
711			
740			
744			
753			
754			
761			
780			
791			
823			
846			
856			
907			
924			
963			
982			
1030			
1045			
1089			
1104			
1126			
1134			
1182			
1190			
1197			
1245			
1258			
1280			
1287			

39



69

600

B, O?

3256
3260

59

ool. MICRITE, AS ABOVE

500 A

3335
3339

60

ool. MICRITE, ARG., MODERATE
TO WEAK, ALGAL FACIES

400

3409
3407

61

AS ABOVE

A, B, C 3475
G, T, Gen
Fe 3483

62

Gy. MICRITE WITH GRAIN SUPPORT
AND BIOLITHITE LENSES
MIXED FACIES, ARG. & PYRITIC.
MODERATE TO WEAK, UNEVEN,
BLOCKY TO FLASSY

300

200

100

0

3833

± 330'
ESTIMATED THICKNESS ABOVE
RIVER VALLEY, COVERED BY
LARGE SCREE, BUT EXPOSED
NEAR VIRGINIA FALLS IN
N. TRIBUTARY.

CONTACT WITH CAMBRIAN
GEO. NOT EXPOSED IN
S. NAHANNI RIVER VALLEY

↑ FOOTAGE FROM BASE OF FM.

↑ FOOTAGE AS MEASURED FROM TOP OF FM.

70

100

3833

CONTACT WITH CAMBRIAN
BEDS NOT EXPOSED IN
S. NAHANNI RIVER VALLEY

↑
FOOTAGE FROM BASE OF FM.

↑
FOOTAGE AS MEASURED FROM TOP OF FM.

AT VIRGINIA FALLS ANOTHER
350' OF NOO. TO MASSIVE, OK. SY.
LS., WELL BEDDED (3"-4")
WERE MEASURED BY THE
G.S.C. PAPER 60-15, P. 5.
FOSSILS INDICATE THE M. ORDO-
VICIAN AND SINCE KINGSTON
(1951) TERMED THE SUNBLOOM
FM. TO INCLUDE "THE ENTIRE
SECTION OF ORDOVICIAN ROCKS",
THESE ROCKS MIGHT BE IN-
CLUDED, BUT WERE NOT
MEASURED.

-100

-200

-300

-350 4183?



BASE OF VIRGINIA FALLS AND
OLDEST ROCKS EXPOSED IN THE
AREA

SECTION 005090 LAT 61° 42' N
Lsd Sec Twp Rge M LONG 125° 24' W
FORMATION NAHANNI - HORN RIVERGE M & U. DEVONIAN
LOCALITY WRIGLEY CREEK
GRID AREA NTS 95-F-NW PHOTO A 12319-258
MEASURED BY EVERS/SCHULTHEIS DATE JULY 19/69
PLOTTED BY H.J. EVERS & S. TODD DATE AUG. 28/69
SOURCE OF DATA SECTION
REMARKS NEAR NAHANNI SHALE-OUT EDGE

LITHOLOGY

- | | | | |
|---|------------------|---|-----------------|
|  | Shale |  | Shale Limestone |
|  | Siltstone |  | Shale Dolomite |
|  | Sandstone |  | Gravel |
|  | Limestone |  | Anhydrite |
|  | Calcareous Shale |  | Conglomerate |
|  | Dolomite |  | Breccia |
|  | Dolomitic Shale |  | Covered |

ACCESSORIES

- | | | | |
|---|--------------|---|----------------|
|  | Ironstone |  | Glaucopane |
|  | Carb. Flecks |  | Coal or Clay |
|  | Pyrite |  | Micaceous |
|  | Crinoidal |  | Ang. or Strom. |
|  | Bitumen |  | Oil stain |
|  | Salt casts |  | Bentonite |

POROSITY

SAMPLES

CRYSTAL OR GRAIN SIZE

- | | |
|-----|----------------------|
| 1 | Crystalline |
| 10 | Microcrystalline |
| x | Finely Cryst or Gran |
| xx | Medium Cryst or Gran |
| xxx | Coarse Cryst or Gran |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

1 of

	FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
								CAN BE CONTINUED TO SYNCLINAL AXIS.

CAN BE CONTINUED TO SYNCLINAL AXIS.



1200

AS BELOW.

>200' OF THE SAME, BUT
NOT SAMPLED

1100

IMPERIAL FM. ?

1000

975
966

26

BL./GN. SILTY & CAL. MUDSTONES
AS BELOW

900

2 of

800

ESTIMATE $(\pm)$ 300' COVERED.

HORN RIVER FM.

700

660

643

615

601

600

573

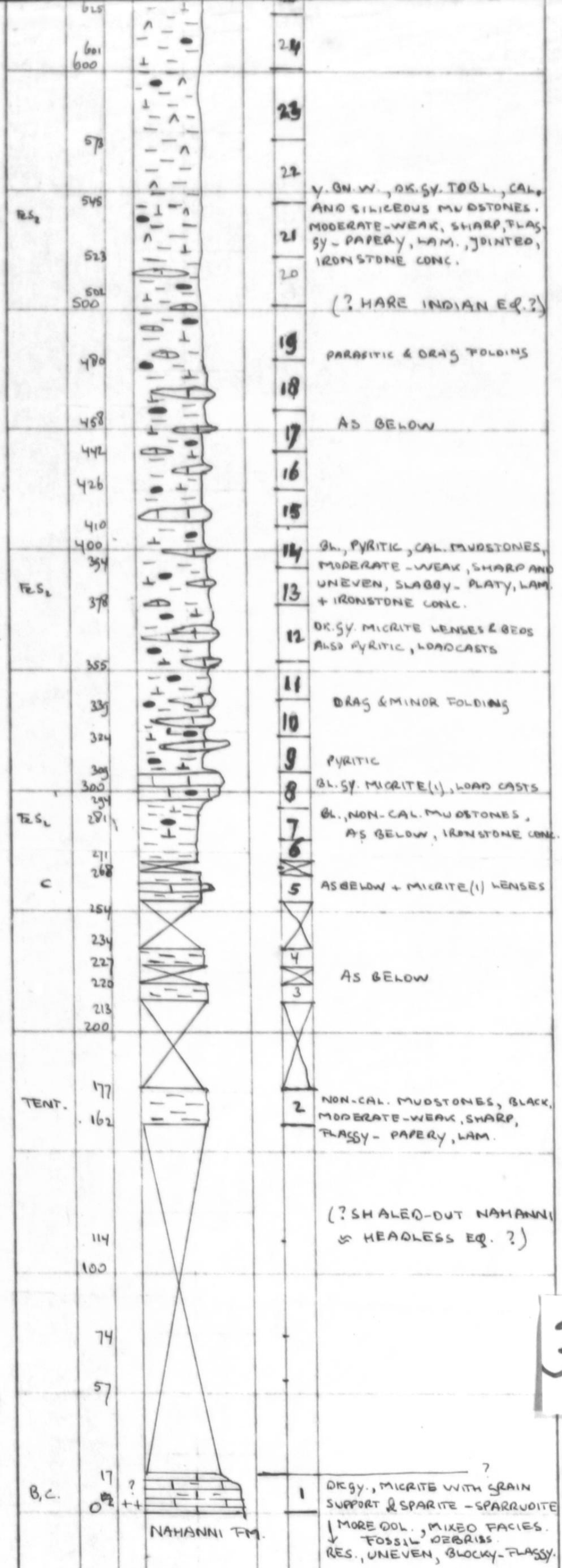
25

24

24

23

(FT. CREEK EQ. ?)



39

SECTION TYPE FUNERAL N. SLOPE LAT 61° 52' N
 Lsd. ____ Sec. ____ Twp ____ Rge ____ M ____ LONG 124° 48' W
 FORMATION FUNERAL AGE DEVONIAN
 LOCALITY W. RAM RIVER 95-F-NE
 GRID AREA 003079 PHOTO A12333-246
 MEASURED BY R. SCHLEINER & P. DOYLE DATE JULY 22-24-69
 PLOTTED BY R. AITKEN & S. TODD DATE SEPT 26-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

TOP FUNERAL PL. →

2391 2390 2378 2373			180 179 178 174	SH LST CALC SH.
2326 2313 2313 2305			180 179	
2299 2281 2270 2266 2259 2249 2240 2231 2224 2208 2207			181 180 179 178 177 176 174 173	MASSIVE MIC AT
2199 2191 2182 2174 2165 2157 2149 2140 2131 2123 2115 2107			172 171 170 169 168 167	
2096 2090 2086 2074 2066 2069 2060 2053 2043 2046 2041 2036 2031			166 165 164 163 162 161 160 159 158 157 156 155 154	MASS LST BLOCKY LST MORE SH. NOO LST - MIC
1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941			153 152 151 150 149 148 147 146 145 144 143 142 141	INCREASING AMT of LST BANDS CALC SHALE.
1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841			139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66	MASS MIC LST DRgy BUFF.
1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163			139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	MASS MIC LST WITH gy BUFF SH BANDS WARM FOSILS
1163			65	MICRITE

207

1246			70	
1229			68	
1216			67	
1200			66	
1163			65	
1129			64	
1106			63	
1053			62	
1041			61	
1045			60	
1036			59	
1024			58	
1012			57	
1000			56	
987			55	
975			54	
968			53	
953			52	
943			51	
931			50	
920			49	
911			48	
903			47	
891			46	
880			45	
869			44	
853			43	
840			42	
829			41	
816			40	
810			39	
796			38	
773			37	
764			36	
757			35	
747			34	
733			33	
713			32	
701			31	
689			30	
677			29	
666			28	
654			27	
644			26	
633			25	
620			24	
607			23	
590			22	
574			21	
556			20	
539			19	
519			18	
498			17	
480			16	
464			15	
447			14	
433			13	
419			12	
410			11	
387			10	
366			9	
344			8	
324			7	
303			6	
281			5	
264			4	
246			3	
231			2	
193			1	
166				
151				
139				
113				
96				
78				
65				
41				
15				

more silty sh.

MORE CLAY AND SIL

MORE CLAY

LET BANDS THICK
SOME SILT DK gy
YELLOW BANDS BUFF
WEATHERING
CLAY SH.

SILTY SH WST BUFF
WEATHERING DK gy WHEN
FRESH

MASS SILTY LST (MIC)
MORE SILTY TOWARDS TOP

DK gy EARLY LST (MIC)
BANDS AND SILTY

BLOOMY DK gy DOWN 175

TOP ARNICA →

39%

SECTION 005077 LAT 61° 23' N
 Lsd. Sec. Twp Rge M LONG 125° 12' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY MARY RIVER
 GRID AREA 95-F-SW. PHOTO A12290-211
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 22-69
 PLOTTED BY R. SCHREINER + S. DDD DATE SEPT 29-69
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

109

	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
C	Carb. Flecks		Coal or Coaly
	Pyrite	A	Micaceous
O	Crinoidal		Algal. or Strom
B	Bitumen	●	Oil Stain
	Salt Casts	xx	Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
Fort Creek TOP NAHAMI	100	13			13		SH DK gy SILICEOUS, WEATHERING AUSTY AND YELLOW MORE MASSIVE 1/2" INTERBED W. SHALY BANDS of 1" THICKNESS (NAHAMI SHALED OUT?) MARLBONE. gy.

SECTION 005076 LAT 60° 58' N
 Lsd. Sec. Twp Rge M LONG 125° 25' W
 FORMATION FORT CREEK or EQUIV AGE DEVONIAN
 LOCALITY SOUTH ON MARY RIVER
 GRID AREA 95-C-NW PHOTO A12319-285
 MEASURED BY A. SCHREINER + P. DAYNE DATE JULY 22-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 26-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crimoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarse, Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

109

VOUGY INTERGRAN

o Poor + F Fossil
 o o Fair - - L Lithology
 o o o Good + + P Porosity
 o o o o Very Good + + +

CRYSTAL OR GRAIN SIZE

x Cryptocrystalline
 m Microcrystalline
 x Finely Cryst or Gran
 xx Medium Cryst or Gran
 xxx Coarse Cryst or Gran
 o Finely Fragmental
 m Medium Fragmental
 xxx Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	276 250 224						
FOAT CREEK	191				.7		 SN BLK SIL, SOME SILT SOME SOCIO. CALCITE IN CRACKURES
	157				.6		
	101				.6		
	106				.4		
	79 51 25				.3 .2 .1		WEATHERING RUSKY AND YELLOW 
							
	10						QUARTZITE, NOT VANANNE

2 of 2

SECTION 005075 LAT 61° 57' N
 Lsd. Sec. Twp Rge M LONG 123° 17' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY EAST BANK OF WRIGLEY CREEK
VIRGINIA FALLS
 GRID AREA NTS. 95 F.N.W. PHOTO A12319-225
 MEASURED BY SCHREINER, P. DOYLE, T. CHUPA DATE JULY 19-20, 69
 PLOTTED BY R. AITKEN + S. TODD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

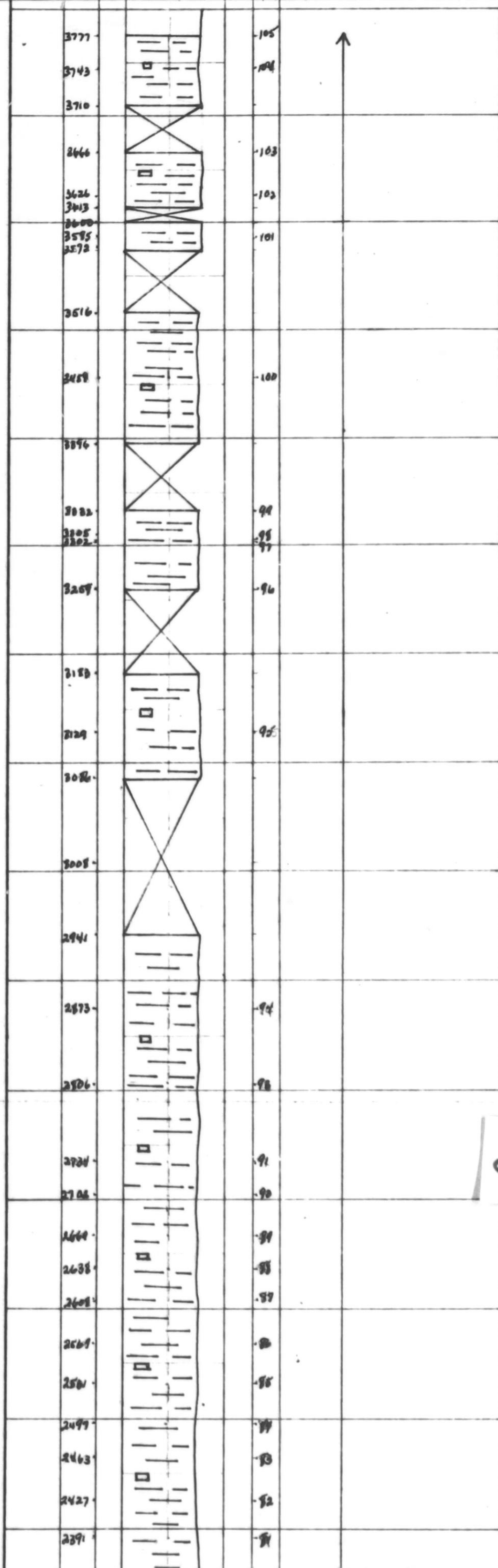
SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	3771					105	
	3743					104	
	3710						



2 of

2497		79	
2463		78	
2427		72	
2391		71	
2353		70	
2316		79	
2282		78	
2245		77	
2212		76	
2177		75	
2143		74	
2108		73	
2075		72	
2042		71	
2004		70	SAME FONDING
1966		69	
1928		68	
1891		67	
1857		66	
1823		65	
1790		64	
1757		63	
1725		62	
1691		61	
1664		60	
1628		59	
1593		58	
1568		57	
1532		56	
1495		55	
1459		54	
1423		53	
1385		52	
1352		51	
1323		50	
1295		49	
1270		48	
1245			
1220			
1196		47	
1164		46	
1132		45	
1110		44	
1088		43	
1064		42	

39

1220			
1196		47	
1164		46	
1132		45	
1110		44	
1088		43	
1064		42	
1024		41	
1000		40	
984		39	
960		38	
944		37	
920		36	
896		35	
872		34	
848		33	
824		32	
800		31	SILTY NODULES
784		30	
760		29	
736		28	
712		27	
688		26	
664		25	
640		24	
616		23	
592		22	
568		21	
544		20	SILICIOUS AND SPINTING
520		19	
496		18	SHALE MORE SILTY
472		17	
448		16	SHALE MORE YELLOW
424		15	
400		14	SOME SILT AND SALT BANDS UP TO 6"
376		13	
352		12	CALCAREOUS CONCRETIONS AROUND
328		11	
304		10	
280		9	
256		8	Less blocky - more silty Rust color more
232		7	
208		6	SILICIOUS BLK SH. WEATHERING YELLOW + RUST
184		5	SOME ISOLATED CALCAREOUS NODULES
160		4	BLK SILICIOUS SH (NOW CAL.) WITH CALCAREOUS BANDS AND SH. WEATHERING BLK
136		3	(BUTY & YELLOW) AND BANDS
112		2	MASSIVE
88		1	DISTINCT
64			
40			
16			
0			

SECTION 005074 LAT 61° 37' N
 Lsd. Sec. Twp Rge M LONG 125° 27' W
 FORMATION NAHANNI - FORT CREEK AGE DEVONIAN
 LOCALITY WRIGLEY CREEK (WEST BANK)
 GRID AREA 95-E-NW PHOTO A12319-262
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 19-69
 PLOTTED BY R. SCHREINER, S. DDD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Grinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY INTERGRAN

o	Poor	+
o o	Fair	++
o o o	Good	+++
o o o o	Very Good	++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of 1

 Dolomite
 Dolomitic Shale

 Breccia
 Covered

ACCESSORIES

 Ironstone	 Glauconite
C Carb. Flecks	 Coal or Coaly
 Pyrite	A Micaceous
• Crinoidal	 Algal. or Strom
B Bitumen	• Oil Stain
 Salt Casts	xx Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F Fossil
 L Lithology
 P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst or Gran.
 o Finely Fragmental
 o o Medium Fragmental
 o o o Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Fort Creek Equivalent	90 80 70 60					11 10 9 8	SH gy Bk Sil weathering rusty + yellow Some sh + and one lime band
→ Top Mahanadi	75 70 65 60 55 50 45 40 35 30 25 20 15					4 3 2 1	SH gy Bk Sil weathering yellow and rusty. micrite gy, interbedded w. sh, lime bit (Mahanadi showing out).

2 of 2

SECTION 005072 LAT 62° 14' N
 Lsd. Sec. Twp Rge M LONG 123° 48' W
 FORMATION NAHANNI - FORT CREEK AGE DEVONIAN
 LOCALITY WEST OF NORTH NAHANNI RIVER
 GRID AREA 95-J-SW PHOTO A11337-119
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 18-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

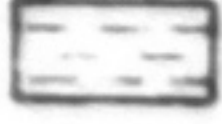
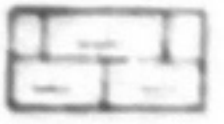
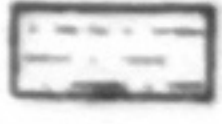
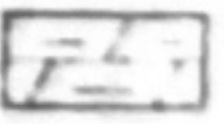
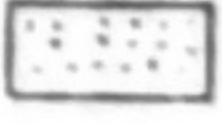
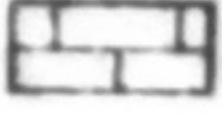
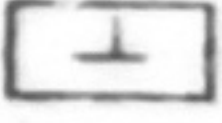
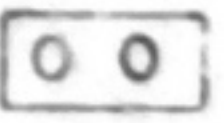
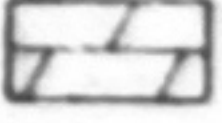
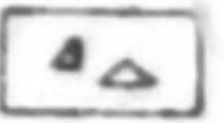
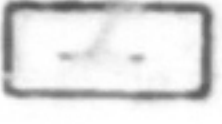
F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

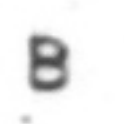
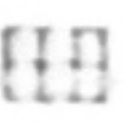
I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
							

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good +---

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
	60 50 40 30 20 10					4 3 2 1	SH & LK SILICEOUS WEATHERING RUSTY AND YELLOW. MICALITE IN MASSIVE

SECTION 005073 LAT 61° 56' N
 Lsd. Sec. Twp Rge M LONG 123° 46' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY WEST OF THE RAM RIVER
 GRID AREA 95-G-NW PHOTO A12842-51
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 18-69
 PLOTTED BY R. SCHREINER + P. DOYLE DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst. or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

29

ACCESSORIES

- | | | | |
|---|--------------|---|------------------|
|  | Ironstone |  | Glauconite |
|  | Carb. Flecks |  | Coal or Coaly |
|  | Pyrite |  | Micaceous |
|  | Grinoidal |  | Algal. or Strom. |
|  | Bitumen |  | Oil Stain |
|  | Salt Casts |  | Bentonite |

POROSITY

- | VUGGY | INTERGRAN | |
|---------|-----------|------|
| o | Poor | + |
| o o | Fair | ++ |
| o o o | Good | +++ |
| o o o o | Very Good | ++++ |

SAMPLES

- F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

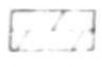
FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN. SIZE	SAMPLES	DESCRIPTION	
HARD VALENT	276 277 278 200 201 213					15 14 13 12	SH, BLK SPLENDID, SILICEOUS WEATHERING RUSTY AND YELLOW	
	196 178 161 142 120 104					11 10 9 8 7 6	SH, gy BLK limy w limy BANDS AND CON- CRETIONS, SILTY IN PLACES	
HARD!	82 58 50 36 24 12					5 4 3 2 1	MICRITE, gy. TO SHALES	
B								

2 of 2

SECTION 005071 LAT 61° 56' N
 Lsd. Sec. Twp Rge M LONG 124° 24' W
 FORMATION WAIWANI - HAREINDIGN AGE DEVONIAN
 LOCALITY WEST RAM RIVER
 GRID AREA 95-F-NE PHOTO A12295-375
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 17-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

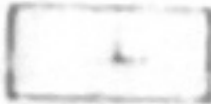
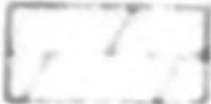
	Fossil
	Lithology
	Porosity

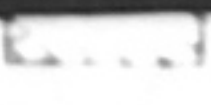
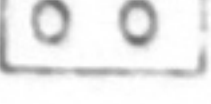
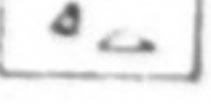
CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarse Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of 1

-  Calcareous Shale
 Dolomite
 Dolomitic Shale

-  Anhydrite
 Conglomerate
 Breccia
 Covered

ACCESSORIES

-  Ironstone
 Carb. Flecks
 Pyrite
 Crinoidal
 Bitumen
 Salt Casts
 Glauconite
 Coal or Coaly
 Micaceous
 Algal or Strom
 Oil Stain
 Bentonite

POROSITY

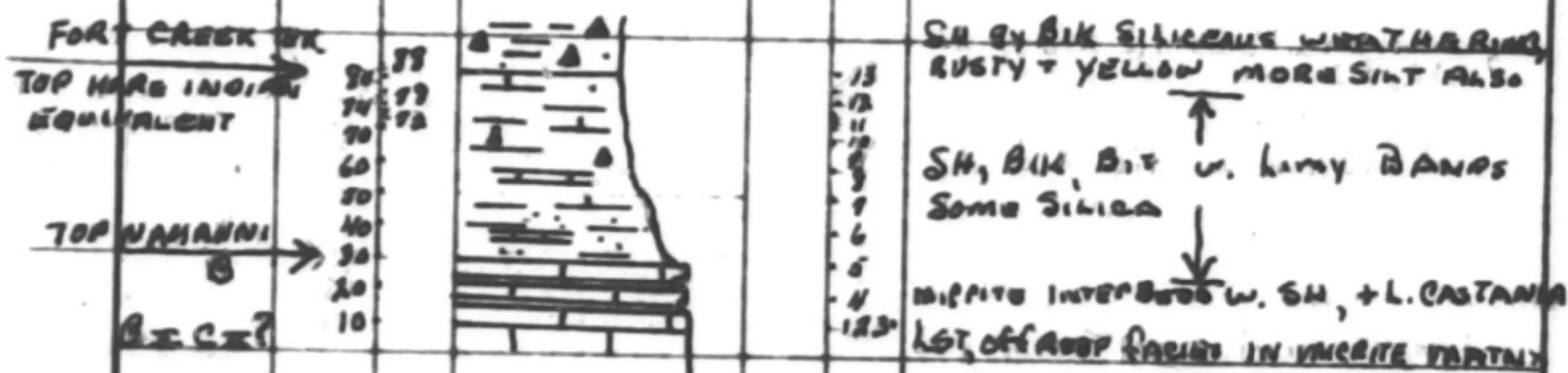
VUGGY	INTERGRAN
o	Poor +
o o	Fair + -
o o o	Good + - -
o o o o	Very Good + - - -

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

- I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst. or Gran.
 o Finely Fragmental
 oo Medium Fragmental
 ooo Coarse Fragmental



SECTION 005069 LAT 65° 38' N
 Lsd. Sec. Twp Rge M LONG 128° 25' W
 FORMATION KEE SCARP FORT CREEK AGE DEVONIAN
 LOCALITY CARCAJOU RIDGE
 GRID AREA 106-H-NE PHOTO A12604-62
 MEASURED BY P. VERRALL R. SCHREINER P. DOYLE DATE JULY 16-69
 PLOTTED BY R. SCHREINER-S. TODD DATE SEPT 24-69
 SOURCE OF DATA TAPPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good +---

SAMPLES

F	Fossil
L	Lithology
P	Porosity

1 of

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

ACCESSORIES

- | | | | |
|---|--------------|--|------------------|
|  | Ironstone |  | Glaucanite |
| C | Carb. Flecks |  | Coal or Coaly |
|  | Pyrite |  | Micaceous |
| O | Crinoidal |  | Algal. or Strom. |
| B | Bitumen |  | Oil Stain |
|  | Salt Casts | xx | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|-------------------|
| o | Poor + |
| o o | Fair + + |
| o o o | Good + + + |
| o o o o | Very Good + + + + |

SAMPLES

- F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | *Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

[illegible]

SECTION 005061+005062 LAT 62° 22' N
 Lsd. Sec. Twp Rge M LONG 124° 46' 47" W
 CARBELL - SOMBRE - ARNICA
 FORMATION FUNERAL - LANDRY - HEADLESS AGE DEVONIAN
 LOCALITY WHITTAKER RANGE
 GRID AREA 95-K-NE PHOTO A13290-54
 MEASURED BY R. SCHREINER + P. DOYLE T. CHUPA DATE JULY 8, 11, 13, 14 - 68
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 18, -69
 SOURCE OF DATA TODD SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

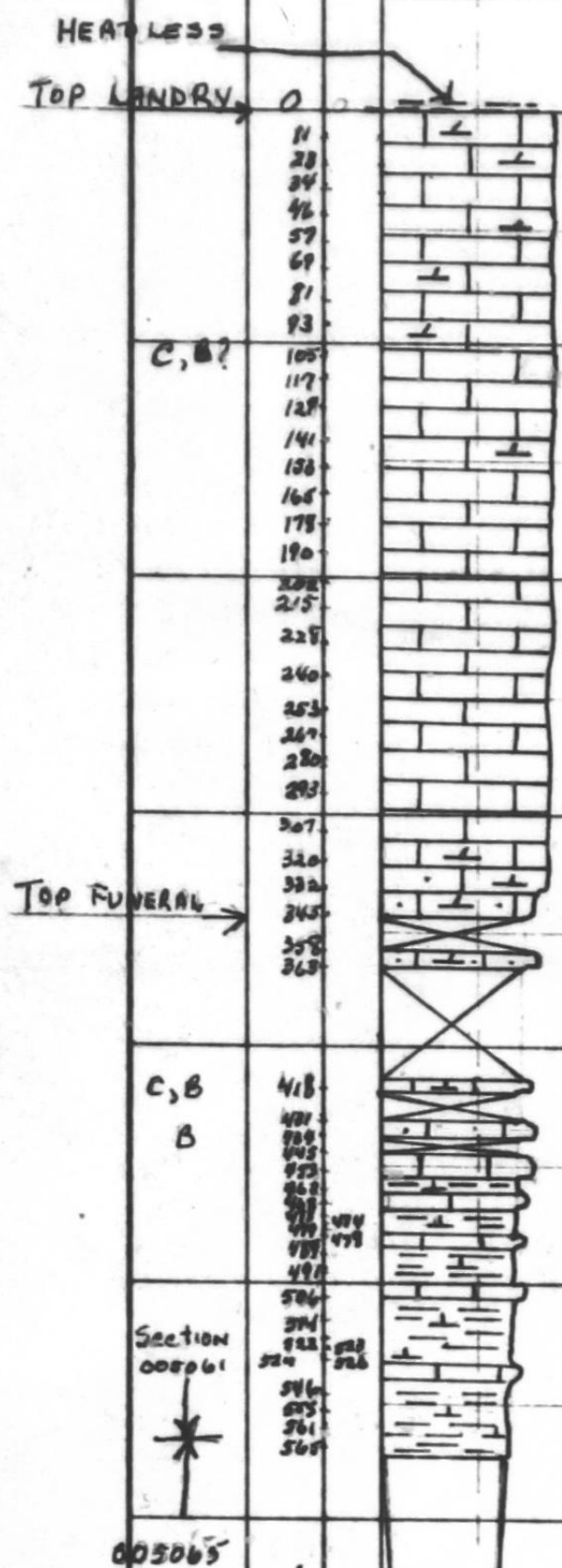
HEADLESS

Top Landry

Sh. Rev. on 1000000

1 of

FO ACC FEET FOR 8 FOR LIT TO EX CR GR SA



SH. BRN GY. RECESSIVE
ERODD AT TOP OF LET?
LET 17gy, SECOND. CALCITE
MICRITE
DOL - 0-10%

1X

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29

SAME AS ABOVE

SAME BUT MORE RECESSIVE
GOING PROGRESSIVELY OVER INTO
DK GY DOLOM LET WEATHERING
DARK PINK.

COVERED: IS MORE RECESSIVE SHALE

LET dk gy, MORE RECESSIVE
THAN LANDRY PLATY.
SLIGHTLY SILTY.

SAME, WITH SOME SECOND CALC.

MORE AND MORE SHALY
TOWARDS THE BASE

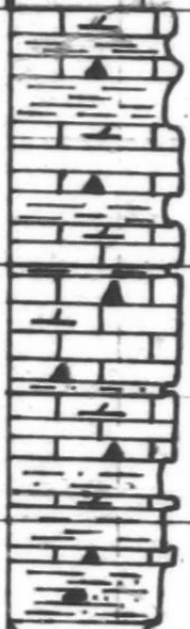
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2 of

GAP BETWEEN
SECTION 005061 AND
005065.
THE THICKNESS OF
THE MISSING PART
IS TAKEN FROM GSC.
PAPER 63-13

Section
005065

39
19
29
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1st, dkgy w. 10% dol
AND CHERTY BANDS.
INTERBED W. SHALY SILTY
BEDS

TOP ARNICA →

SOME LIMY CONCRETIONS IN SHALES

C?

308
318
328
338
347
357
367
377
386
396
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415
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434
444
453
463
472
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490
500
509
510
520
530
541



11X

26
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DOL DK gy → MD gy
FINE TO COARSE GRAINED
PARTLY BAFFLED

SOME BANDS OF BLK CHERT
AND/OR LAYERS OF NODULES.

600

700

800

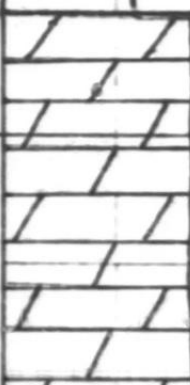
900

TOP SOMBRE → ?

?

1000

1052
1061
1071
1080
1090
1100
1109
1119
1128
1138
1147
1156
1166
1175
1185
1195
1205



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3 of

1090		53	
1090		54	
1109		55	
1119		56	
1128		57	
1138		58	
1147		59	
1156		60	
1164		61	
1175		62	
94		63	
93		64	
1202		65	
11		66	
20		67	
27		68	
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27		72	
28		73	
26		74	
25		75	
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1304		77	
13		78	
23		79	
22		80	
41		81	
51		82	
61		83	
70		84	
70		85	
94		86	
1409		87	
75		88	
28		89	
28		90	
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1506		97	
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73		104	
83		105	
92		106	
1602		107	
11		108	
21		109	
31		110	
41		111	
51		112	
61		113	
71		114	
80		115	
90		116	
1700		117	
10		118	
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90		126	
1800		127	
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59		133	
69		134	
79		135	
89		136	
90		137	
1809		138	
19		139	
28		140	
38		141	
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56		143	
65		144	
75		145	
84		146	
93		147	
2000		148	
11		149	
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68		155	
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86		157	
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2105		159	
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55		164	
65		165	
75		166	
84		167	
94		168	
2204		169	
14		170	
24		171	
34		172	
44		173	
54		174	
64		175	
74		176	
		177	

SEDIMENT STRUCTURES
(LOADING)

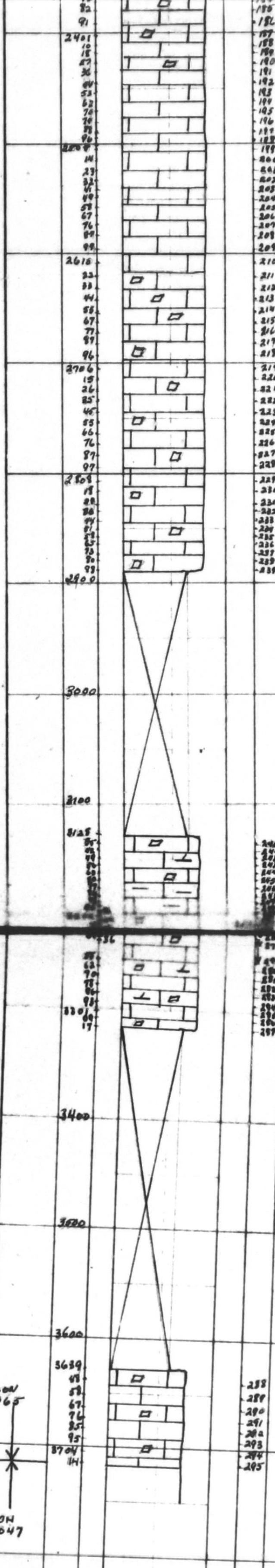
DOLOMITE, LIGHTLY
WEATHERING, IN WHEN
FRESH.
MASSIVE BEDDED BUT
VERY AFFECTED BY
WEATHERING (EASY BREAKING)
SOME CHERT

SILTY AND
SHALY BAND
(BUFF)

X
||

40





BRECCIATED
 PARTS
 SUB ANGULAR
 TO SUBROUNDED

 LST AND BRECCIATED
 LST THICK BEDDED
 MDM GRAINED, GREY
 TO ORANGE WEATHERING
 DUE TO LIMONITE IN THE
 BRECCIA MATRIX
 BRECCIATED
 PARTS UP TO
 2"

 SAME AS ABOVE
 W. SOME SHALY BANDS
 PARTLY DOLOMITE (5-10%)

 SAME AS ABOVE

50

Section
 005065

 See
 Section
 005047

SECTION 005063 LAT 62° 14' N
 Lsd. _____ Sec. _____ Twp _____ Rge _____ M _____ LONG 124° 17' W
 FORMATION NAHANNI-HARE INDIAN AGE
FORT CREEK
 LOCALITY NORTH NAHANNI (S. OF THE RIVER)
 GRID AREA 95-K-SE PHOTO A12035-217
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 9-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 23-69
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						

1 of 1

-  Calcareous Shale
-  Dolomite
-  Dolomitic Shale

-  Conglomerate
-  Breccia
-  Covered

ACCESSORIES

-  Ironstone
-  Corb. Flecks
-  Pyrite
-  Crinoidal
-  Bitumen
-  Salt Casts

-  Glauconite
-  Coal or Coaly
-  Micaceous
-  Algal. or Strom.
-  Oil Stain
-  Bentonite

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- F Fossil
- L Lithology
- P Porosity

CRYSTAL OR GRAIN SIZE

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- II Microcrystalline
- x Finely Cryst. or Gran.
- xx Medium Cryst. or Gran.
- xxx Coarse Cryst. or Gran.
- o Finely Fragmental
- oo Medium Fragmental
- ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM. TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
	100						SH BIK SIL WEATHERING RUSTY AND YELLOW
TOP HARE EQUIVALENT	INDIAN 91 92 93 94 95 96 97 98 99 100						SH BIK SILTY, SOME SIL AND LIMY CONCRETIONS
TOP NAHANNI	0						SH BIK BIT, LIMY MICRITE gy MASSIVE + L. CASTANEA

SECTION 005064 LAT 62° 14' N
 Lsd. Sec. Twp Rge M LONG 124° 32' W
 FORMATION NAHANNI-HARE INDIAN-
PORT CAGE BK AGE DEVONIAN
 LOCALITY NORTH NAHANNI RIVER
 GRID AREA 95-K-SE PHOTO A12035-127
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY 9-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 24-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst. or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

- O Crinoidal
- B Bitumen
- Salt Casts

- Algal or Strom
- Oil Stain
- Bentonite

POROSITY

- VUGGY
- INTERGRAN
- o Poor
- o o Fair
- o o o Good
- o o o o Very Good

SAMPLES

- F Fossil
- L Lithology
- P Porosity

CRYSTAL OR GRAIN SIZE

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- xxx Coarse Cryst. or Gran.
- o Finely Fragmental
- oo Medium Fragmental
- ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
HARK INDIAN TOP BAND B	100 50 25 12.5 6.25 3.125 1.5625 0.78125 0.390625 0.1953125 0.09765625 0.048828125 0.0244140625 0.01220703125 0.006103515625 0.0030517578125 0.00152587890625 0.000762939453125 0.0003814697265625 0.00019073486328125 0.000095367431640625 0.0000476837158203125 0.00002384185791015625 0.000011920928955078125 0.0000059604644775390625 0.00000298023223876953125 0.000001490116119384765625 0.0000007450580596923828125 0.00000037252902984619140625 0.000000186264514923095703125 0.0000000931322574615478515625 0.00000004656612873077392578125 0.000000023283064365386962890625 0.0000000116415321826934814453125 0.00000000582076609134674072265625 0.000000002910383045673370361328125 0.0000000014551915228366851806640625 0.00000000072759576141834259033203125 0.000000000363797880709171295166015625 0.0000000001818989403545856475830078125 0.00000000009094947017729282379150390625 0.000000000045474735088646411895751953125 0.0000000000227373675443232059478759765625 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REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
C	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Stromatolite
B	Bitumen		Oil Stain
	Salt Casts	xx	Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

SAMPLES

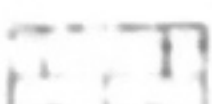
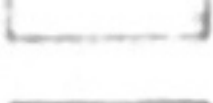
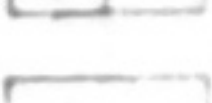
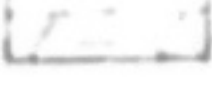
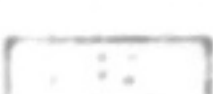
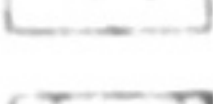
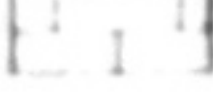
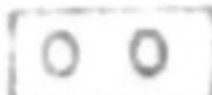
F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
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FOSSILS ACCESSORY FEATURES					
FORM TOP & FOOTAGE					
POROSITY					
LITHOLOGY					
TOPOGRAPHIC EXPRESSION					
CRYSTAL OR GRAIN SIZE					
SAMPLES					
					DESCRIPTION

PHYSIOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
C	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
O	Orinoidal		Algal or Strom
B	Bitumen		Oil Stain
	Salt Casts	xx	Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor
o o	Fair
o o o	Good
o o o o	Very Good

SAMPLES

F Fossil
L Lithology
P Porosity

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aa	Medium Fragmental
aaa	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
200							
163 153 144 134 125 115 105 95 85 75 65 55 45 35 25 15 5	160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0					17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	SH BIK TO gy WEATHERING RUSTY TO YELLOW DUE TO Fe AND S SH, gy BIK, limy MICRITE gy MASSIVE (w. l. CASTANIA)

2 of

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
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B	Bifumen		Oil Stain
	Salt Casts	xx	Bentonite

POROSITY

VUGGY	INTERGRAN	
o	Poor	+
o o	Fair	++
o o o	Good	+++
o o o o	Very Good	++++

SAMPLES

F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
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o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
LESS ANDRY	0						SH. BAN GY. RECESSIVE ERODD AT TOP OF LST?

HEAT LESS

TOP LANDRY

SH. BAN GY, RECESSIVE

ERODD AT TOP OF LET?
LET 17gy, SECOND. CALCITE
MICRITE
DOL - 0-10%

C, B?

IX

SAME AS ABOVE

TOP FURNAL

SAME BUT MORE RECESSIVE
GOING PROGRESSIVELY OVER INTO
DK GY DOLOM LET WEATHERING
DARK PINK.

COVERED: IS MORE RECESSIVE SHALE

C, B
B

LET dk gy, MORE RECESSIVE
THAN LANDRY PTY.
SLIGHTLY SILTY.

SAME, WITH SOME SECOND CALC.

Section
005061

MORE AND MORE SHALY
TOWARDS THE BASE

005065

GAP BETWEEN
SECTION 005061 AND
005065.
THE THICKNESS OF
THE MISSING PART
IS TAKEN FROM G.S.C.
PAPER 63-13.

2 of

Section
005065

99
119
129
139
149
159
169
179
189
199
209
219
226
231
240



11X

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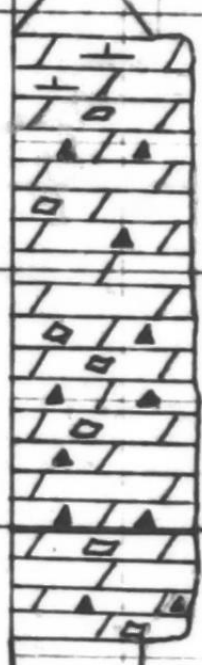
1st, dkgy w. 10% Dol
AND CHERTY BANDS.
INTERBED W. SHALY SILTY
BEDS

SOME limy CONCRETIONS IN SHALES

TOP ARNICA

C?

309
318
328
338
347
357
367
377
386
396
405
415
425
435
444
453
463
472
482
492
501
510
520
530
540



11X

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DOL DK gy → md gy
FINE TO COARSE GRAINED
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AND/OR LAYERS OF NODULES.

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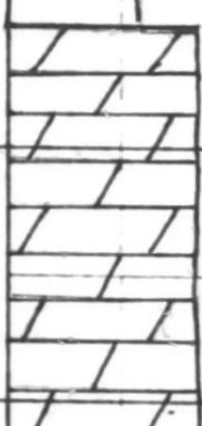
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SEDIMENT STRUCTURES
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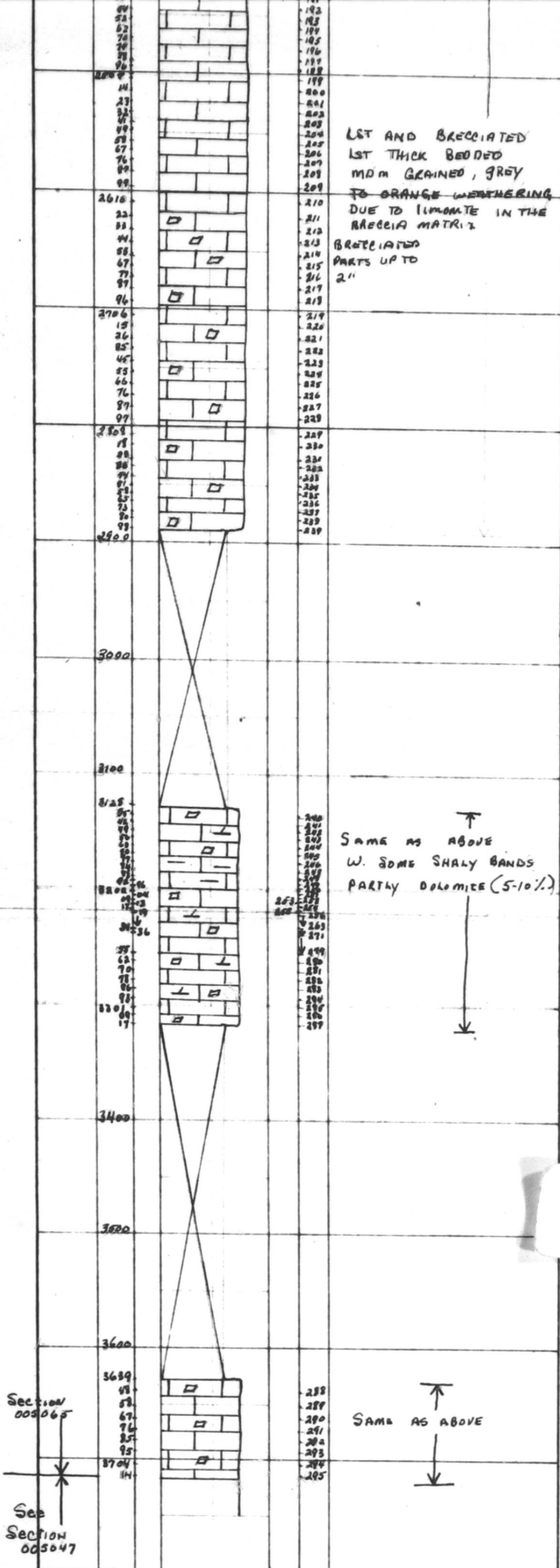
MASSIVE BEDDED BUT
VERY AFFECTED BY
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SOME CHERT

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SHALY BAND
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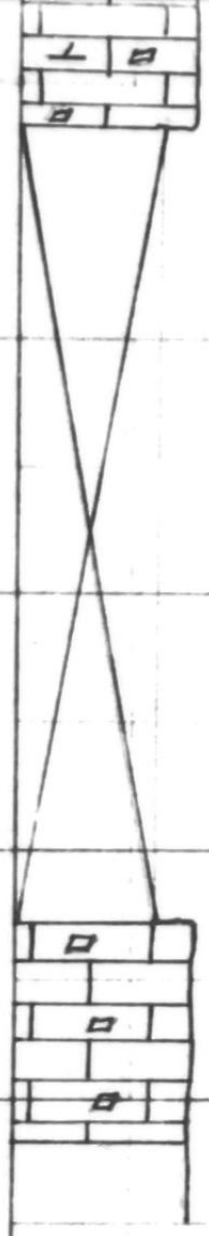
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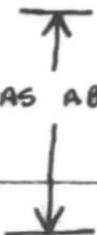
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005065

See
Section
005047



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SAME AS ABOVE



SECTION 005060 LAT 63°03' N
 Lsd. ____ Sec. ____ Twp ____ Rge ____ M ____ LONG 124°45' W
 FORMATION NAHANNI, HARE INDIAN AGE DEVONIAN
PORT CARVER
 LOCALITY N. of Root River
 GRID AREA 95-N-SE PHOTO A-12022-284
 MEASURED BY R. SCHREINER + P. DOYLE DATE JULY-7-69
 PLOTTED BY R. SCHREINER + J. TODD DATE SEPT-18-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

REMARKS

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

	Ironstone		Glaucanite
C	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
B	Bitumen		Oil Stain
	Salt Casts	xx	Bentonite

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

F Fossil
L Lithology
P Porosity

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	500						

FOSSILS ACCESSORY FEATURES	FORM. TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	500						
		73 63 39 15				16 15 14	SH. SILTY, BRN BLK, RUSTY *
TOP KEE SCARP →	400						
		84 52 25 03				13 12 11 10	SAME AS BELOW SOME LESS RESISTANT BEDS
LESS F ↑ X	300						
I BK II ? C.K. (III?)	200	81 58 36 19 01				9 8 7 6 5	Lat lfy MASSIVE
TOP HALL INDIAN		83 74				4	SH BLK Limy BIT
	100						
		37 20 10				3 2 1	SH BLK, DIRTY, Limy, BIT Lat gy, SECOND CALCITE
K (2) LAND							

2 of 2

SECTION 005058 LAT 63° 40' N
 Lsd. Sec Twp Rge M LONG 125° 06' W
 FORMATION FORT SIMPSON? AGE DEVONIAN
 LOCALITY DAHADINNI RIVER
 GRID AREA 95-N-NW PHOTO A12042-152
 MEASURED BY P. VERRALL, R. SCHREINER, W. SCHUKTHEIS DATE JULY 3-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 17-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

2 of 2

SECTION 005057 LAT 63°58' N

Lsd. Sec. Twp Rge M LONG 124° 04' W

FORMATION NAHANNI → KEE SCARPAGE

LOCALITY N of BLACK WATER RIVER

GRID AREA 95-N-NE PHOTO A 11973-162

MEASURED BY P. VERRALL, R. SCHREINER, N. SCHULT DATE July 3, 1969

PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 17, 1969

SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran.
	Medium Cryst or Gran.
	Coarse Cryst or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
							
	TOP HARE INDIAN 300	18 02			11x	1	Let gy Fossilif + SEC CMC + K-B MAY BE KEE SCARP PLATFORM

-  Coal or Coaly
-  Micaceous
-  Algal, or Strom
-  Oil Stain
-  Bentonite

POROSITY

SAMPLES

VUGGY

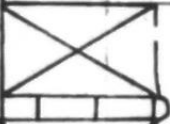
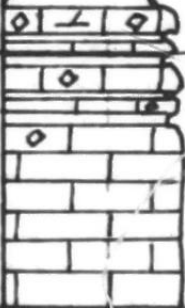
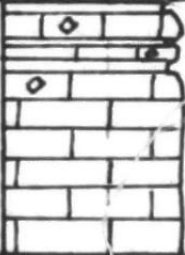
INTERGRAN

o	Poor	+
o o	Fair	++
o o o	Good	+++
o o o o	Very Good	++++

F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

	FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
TOP HARE INDIAN →		300	18 02		II X	I	1	LST gy Fossilif + SEC CALC + K-B MAY BE RES CLARP PLATFORM
			71 38 21 17				2	SH gy BLK LIMY
		200						
TOP NAHANNI →		100	19					
			95 71 48 24 0		II X		3 4 5 6 7	LST gy 10-20% Dol MORE AND MORE SHALY DOWN WARDS ↓ * LST gy MASSIVE ↓
		0						
				</				

SECTION D05055 LAT 64° 06' N
 Lsd. Sec. Twp Rge M LONG 126° 08' W
 FORMATION NAHANNI-FORT CREEK AGE DEVONIAN
 LOCALITY SE. ON INLIN BROOK MAP AREA
 GRID AREA 96-D-S.E. PHOTO A12063-124
 MEASURED BY R. SCHREINER, N. SCHULTZ, T. CHUZ DATE JULY 1, 69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 17-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale-Limestone
	Siltstone		Shale-Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS	ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

-  Limestone
 -  Calcareous Shale
 -  Dolomite
 -  Dolomitic Shale

-  Chert
 -  Anhydrite
 -  Conglomerate
 -  Breccia
 -  Covered

ACCESSORIES

-  Ironstone
 -  Corb. Flecks
 -  Pyrite
 -  Crinoidal
 -  Bitumen
 -  Salt Casts

-  Glaucinite
 -  Coal or Coaly
 -  Micaceous
 -  Algal. or Strom
 -  Oil Stain
 -  Bentonite

POROSITY

- | VUGGY | INTERGRAN |
|---------|-----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good +++++ |

SAMPLES

- F Fossil
- L Lithology
- P Porosity

CRYSTAL OR GRAIN SIZE

- I Cryptocrystalline
- II Microcrystalline
- x Finely Cryst. or Gran.
- xx Medium Cryst. or Gran.
- xxx Coarse Cryst or Gran.
- o Finely Fragmental
- oo Medium Fragmental
- ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM. TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Fort Creek TOP MARANNA	30 20 10 02					1 2 3 4 5	SH, BLK, BRN SILICEOUS LST gy.

SECTION 005055 LAT 64° 06' N
 Lsd. Sec. Twp Rge M LONG 126° 08' W
 FORMATION NAHANNI-FORT CREEK AGE DEVONIAN
 LOCALITY SE. ON INLIN BROOK MAP AREA
 GRID AREA 96-D-S.E. PHOTO A12063-124
 MEASURED BY B. SCHREINER, N. SCHULTZ, T. CHUP DATE JULY 1, 69
 PLOTTED BY B. SCHREINER + S. TODD DATE SEPT 17-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good + - - -

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
III	Finely Cryst. or Gran.
IV	Medium Cryst. or Gran.
V	Coarse Cryst. or Gran.
VI	Finely Fragmental
VII	Medium Fragmental
VIII	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

 Dolomite
 Dolomitic Shale

 Breccia
 Covered

ACCESSORIES

 Ironstone	 Glauconite
 Carb. Flecks	 Coal or Coaly
 Pyrite	 Micaceous
 Crinoidal	 Algal or Strom
 Bitumen	 Oil Stain
 Salt Casts	 Bentonite

POROSITY

VUGGY	INTERGRAN
 Poor	 +
 Fair	 ++
 Good	 +++
 Very Good	 ++++

SAMPLES

F Fossil
 L Lithology
 P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst or Gran.
 • Finely Fragmental
 •• Medium Fragmental
 ••• Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Fort Creek TOP MARINUL	20 10 10					1 2 3	SH, BLK, BRN SILICEOUS LST gy.

2 of 2

SECTION 005042 LAT 62° 40' N
 Lsd. Sec Twp Rge M LONG 124° 47' W
 FORMATION NAHANNI - T. CREEK AGE M/W. DEVONIAN.
 LOCALITY + 8 MILES N OF TRENCH LAKE
 GRID AREA N.T.S. 95-K-NE PHOTO A 12022-320
 MEASURED BY EVERS & SCHULTHEIS DATE JULY 8/69
 PLOTTED BY H.J. EVERS DATE AUG. 15/69
 SOURCE OF DATA SECTION

REMARKS STRIKING BASAL HARE INDIAN DEVELOPMENT
WITH SEVERAL CARB. BANKS. ? FACIES BOUNDARY NAH.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Sphaconite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Grinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

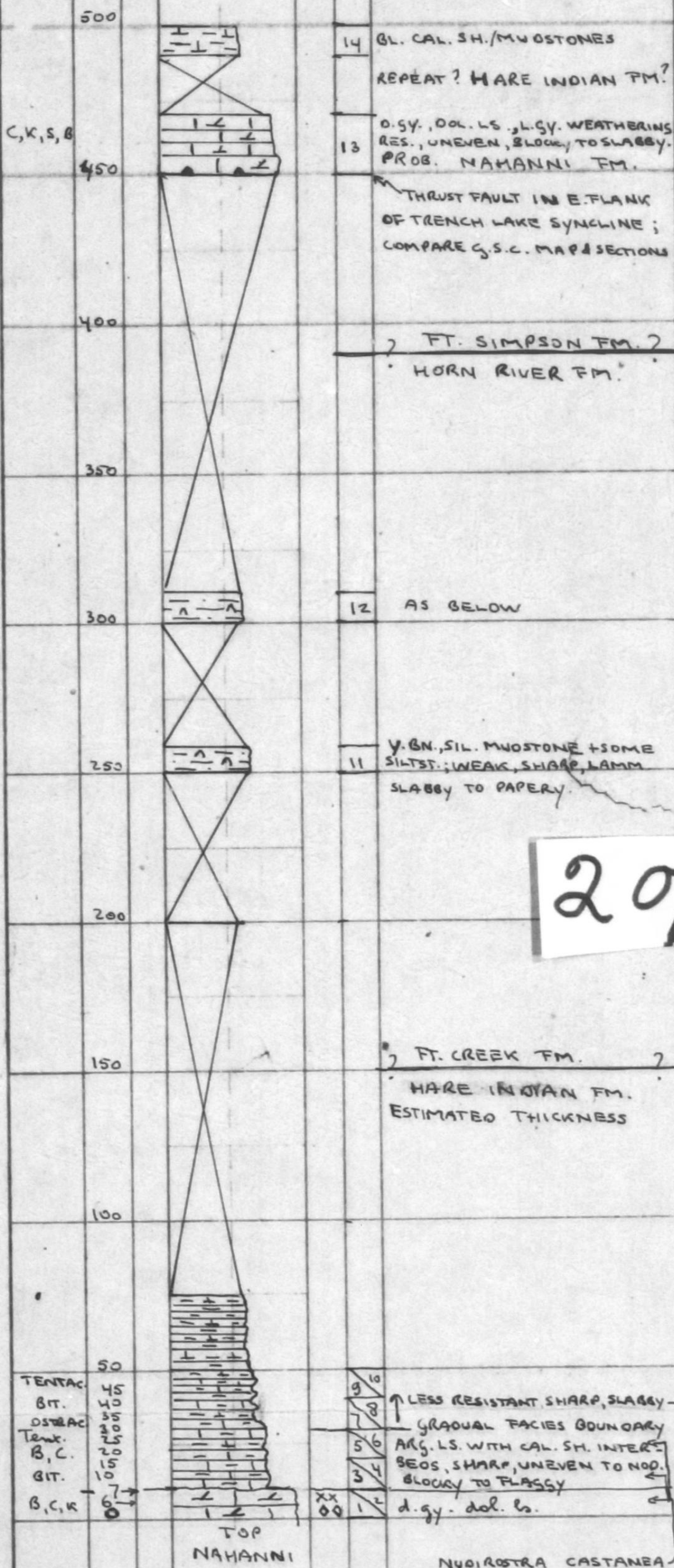
CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

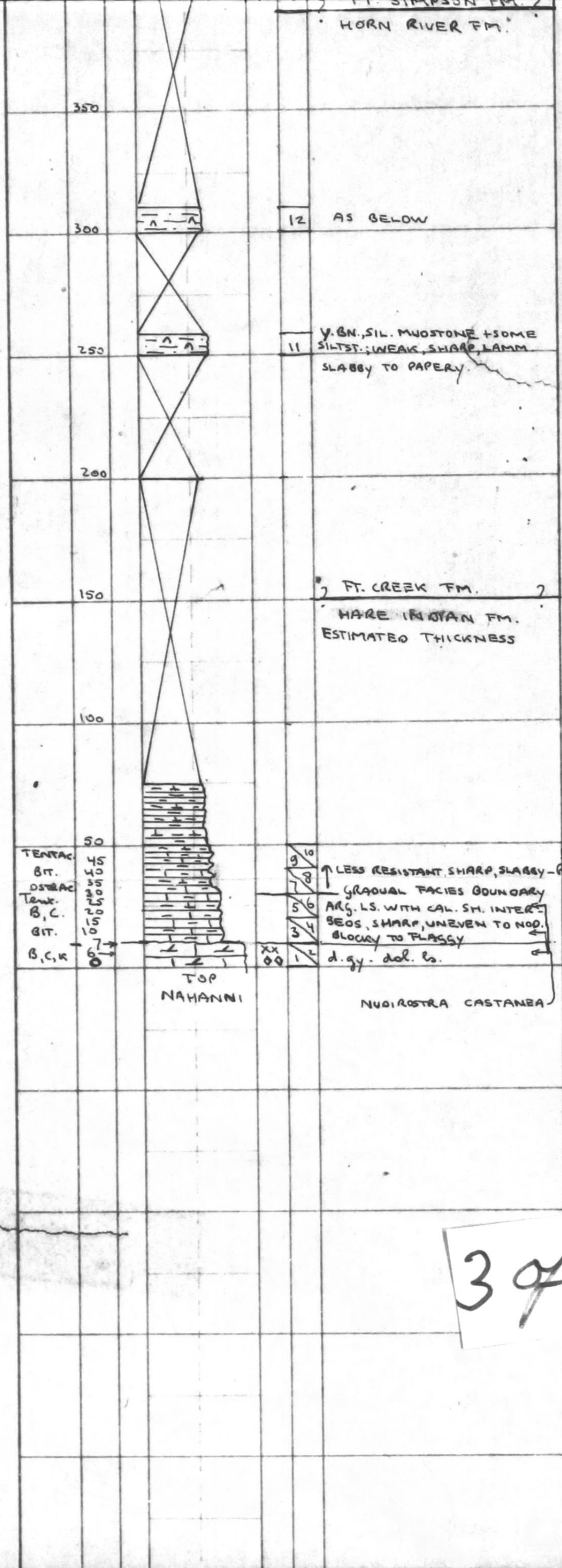
FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

COMPARE WITH SECTION 0050
A FEW MILES FURTHER S.



2 of



393

SECTION 005043 LAT 62° 20' N
 Lsd. Sec. Twp Rge M LONG 123° 48' W
 FORMATION NAHANNI - HARE INDAGE M-U. DEVONIAN
 LOCALITY W FLANK ANTICLINE N OF N. NAHANNI RIVER
 GRID AREA N.T.S. 95-J-SW PHOTO A 11348-271
 MEASURED BY EVERS/YONGE/SCHULTHEIS DATE JULY 9/69
 PLOTTED BY M. EVERS DATE AUG. 14/69
 SOURCE OF DATA SECTION
 REMARKS H₂S + CO₂ SPRINGS IN TOP NAHANNI
± 3 MILES SE OF CARLSON LAKE

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

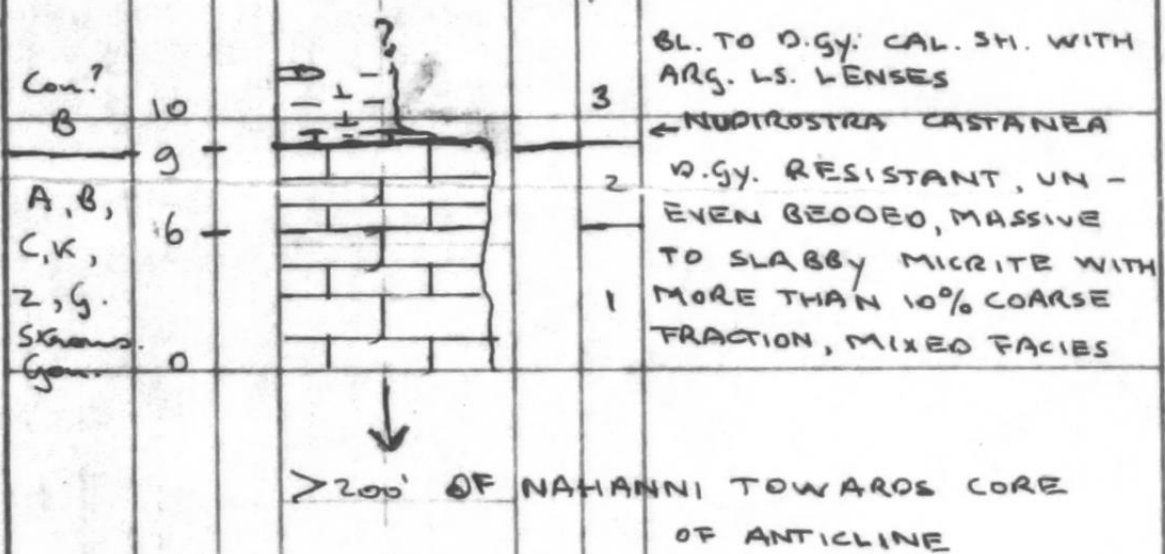
F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of



2 of 2

SECTION 005044 LAT 62° 17' N
 Lsd. Sec. Twp Rge M LONG 124° 12' W
 FORMATION NAHANNI - HORN RIVER AGE M&U. DEVONIAN
 LOCALITY SW OF CARLSON LAKE
 GRID AREA NTS. 95-K-SE PHOTO A 12796-17
 MEASURED BY EVERS/YONGE/SCHULTHEIS DATE JULY 9/65
 PLOTTED BY H.J. EVERS DATE AUG. 28/65
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

- | | |
|--|--|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|--|
|  Ironstone |  Glaucanite |
|  Corb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

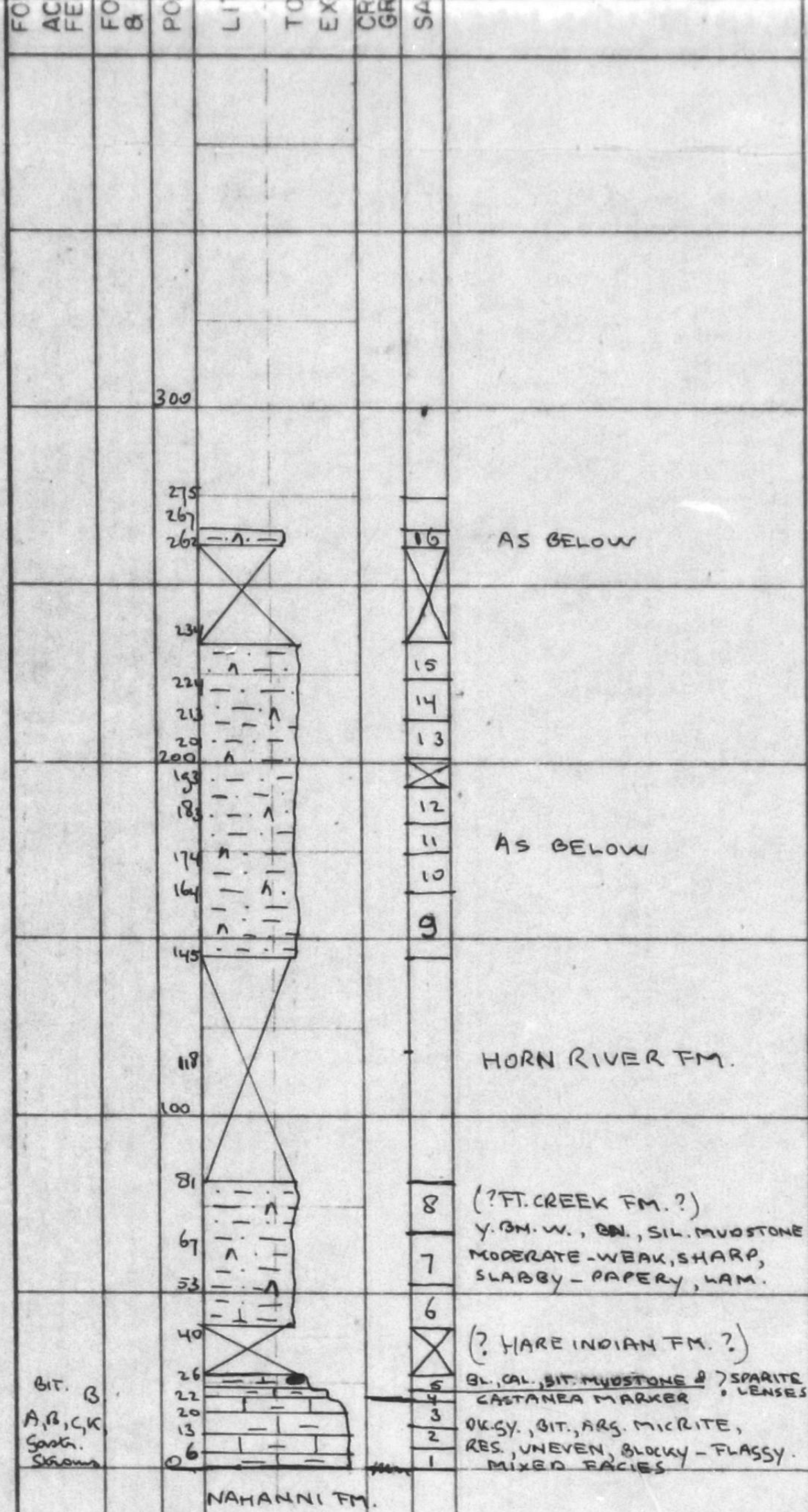
- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

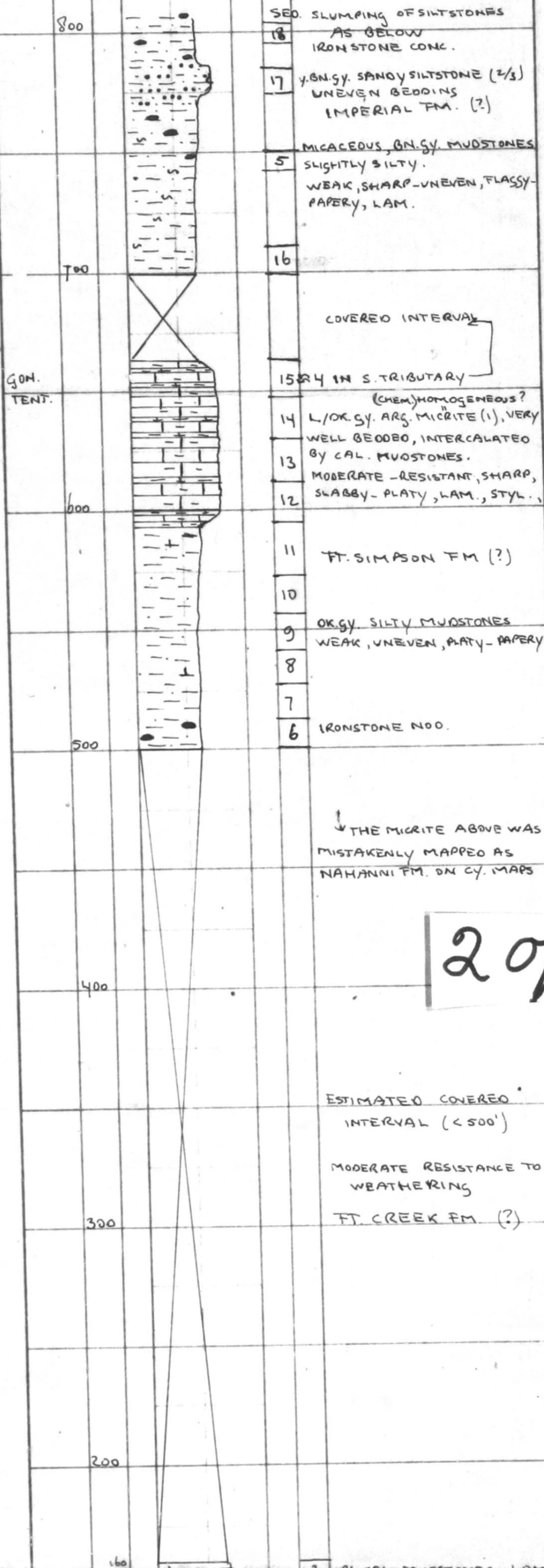
1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION



2 of 2

↑ SECTION CAN BE CONTINUED TOWARDS
W & CENTRE OF SYNCLINE FOR >> 1000'
OF SILTSTONES & MUDESTONES.



400

ESTIMATED COVERED
INTERVAL (< 500')

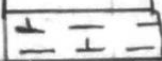
MODERATE RESISTANCE TO
WEATHERING

300

FT. CREEK FM (?)

200

160
150



3

GL. CAL., MUDSTONES, LAM.
MODERATE, SHARP, SLABBY-
PLATY

ESTIMATED THICKNESSES
HARE INDIAN FM. (?)

100

A, B, C, K,
Z, G.
STROMS.
BIT.

20
10
0



NAHANNI FM.

2

OK. GY., BIT., ARG. MICRITE, MIXED
FACIES, RESISTANT, UNEVEN,
BLOCKY-SLABBY.

393

SECTION 005048 LAT 64° 24' N
 Lsd. _____ Sec. _____ Twp _____ Rge _____ M _____ LONG 126° 07' W
 FORMATION NANANI - HARE INDIAN AGE DECONIAN
FORT CREEK
 LOCALITY WEST OF SUMMIT CREEK
 GRID AREA 96-D-SE PHOTO A12463-111
 MEASURED BY P. VERRALL + T. CHUPA DATE JUNE 29-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 29-69
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microncrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP 8 FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

P	Pyrite
O	Orinoidal
B	Bitumen
S	Salt Casts

^	Micaceous
	Algal. or Strum
●	Oil Stain
xx	Bentonite

POROSITY

SAMPLES

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

i	Cryptocrystalline
ii	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
a	Finely Fragmental
aa	Medium Fragmental
aaa	Coarsely Fragmental

[illegible]

SECTION 005051 LAT 64° 45' N
 Lsd. Sec. Twp Rge M LONG 129° 19' W
 FORMATION NAHANNI - FT. CREEK AGE DEVONIAN
 LOCALITY SOUTH ON LITTLE KEELE RIVER MAP AREA
 GRID AREA 106 - A - NE PHOTO A12230-120
 MEASURED BY R. SCHREINER + T. CHUPA DATE JUNE 24-1969
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 16-1969
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
IMPERIAL	600					15	↑ SST WITH SOME SHALY BANDS gy. gn. SST

- || Microcrystalline
 x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst. or Gran.
 o Finely Fragmental
 oo Medium Fragmental
 ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	IMPERIAL	600				15	↑ SST WITH SOME SHALY BANDS GY. GR. SST
		61				14	
TOP FORT CREEK		500				13	
		71				12	
		33				11	SAME SH BUT MORE FO
	400	99				10	SOME HARD SILIC BANDS
		45				9	↑ SAME BIK, BROWN, YELLOW SIL, SH
	300	93				8	↓ ? VERY BIT PARTINGS
		51				7	
	200	04				6	
		57				5	SAME, MORE SI, AND S. GIVING YELLOW WEATHERING
	100	21				5	SH BKN BIK NON CALC SIL WEATHERING RUSTY
		95					SH; BROWN BIK, WEATHERING RED NON CALCAREOUS PAPERY
TOP HARK INDIAN		55				4	
		42				3	
		33				2	BIK LIMY SHALE WITH 1ST INTERBEDS
TOP MAHANNI		28				1	LOT MOD. GY >10% COARSE FRACT BLOK

2 of 2

SECTION 005052 LAT 64° 04' N
 Lsd. Sec. Twp Rge M LONG 126° 11' W
 FORMATION NAHANNI FORT CREEK AGE DEVONIAN
 LOCALITY SOUTH of KEELE RIVER
 GRID AREA 96-D-SE PHOTO A12063-224
 MEASURED BY HIS. WALTON, R. SCHREINER, V. SCHUNTHEIS DATE JUNE 27-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 16-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

- | | |
|--|---|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|---|
|  Ironstone |  Glaucanite |
| C Carb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
| o Crinoidal |  Algal. or Strom |
| B Bitumen |  Oil Stain |
|  Salt Casts | xx Bentonite |

POROSITY

SAMPLES

- | VUGGY | INTERGRAN |
|-------------------|-----------|
| o Poor | + |
| o o Fair | ++ |
| o o o Good | +++ |
| o o o o Very Good | ++++ |

- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	193						

	Conglomerate
	Breccia
	Covered

	Ironstone		Glauconite
C	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
B	Bitumen		Oil Stain
	Salt Casts	xx	Bentonite

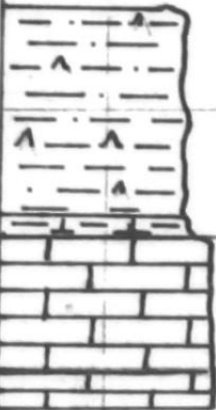
SAMPLES

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Fort Creek	193 142 181 120 108 98 89 76 68 55 33 0				1 2 3 4 5 6 7 8 9 10		Sh bn blk, siliceous Sh lmy AND 1st BAND 1st gy, no fossils

2 of 2

SECTION 005053 LAT 63° 28' N
 Lsd. Sec. Twp Rge M LONG 125° 58' W
 FORMATION NAHANNI - FORT CREEKAGE DEVONIAN
 LOCALITY REDSTONE RIVER (N of CANON)
 GRID AREA 95 - N - SW. PHOTO A12063-24
 MEASURED BY R. SCHREINER + N. SCHULTHEIS DATE JUNE 28-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 16-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

i	Cryptocrystalline
ii	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

● Oil Stain
xx Bentonite

POROSITY

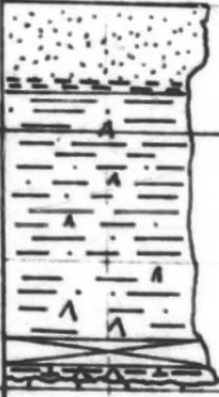
SAMPLES

VUGGY	INTERGRAN
0	Poor +
0 0	Fair + +
0 0 0 1	Good + + +
0 0 0 0 0	Very Good + + + +

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

i	Cryptocrystalline
ii	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

	FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
		200						
MATERIAL AT CREEK?		100	98 86 75 63 51 40 30 20 8	53 	XX		13	gy ga sgt 1' of Bmpapery SL RUSTY ↑
NANNI →	A						12 11 10 9 8 7 6 5 3-4 1-2	STRUCTURALLY CONTORTED SH BLK BRN SH AND SILTY BLK SH SILAND CALC LST gy GRADED?

2 of 2

REMARKS

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

	Ironstone		Glaucanite
C	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
O	Crinoidal		Algal or Stromatolite
B	Bitumen		Oil Stain
	Salt Casts	xx	Bentonite

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

F Fossil
L Lithology
P Porosity

I	Cryptocrystalline
II	Microcrystalline
X	Finely Cryst. or Gran.
XX	Medium Cryst. or Gran.
XXX	Coarse Cryst. or Gran.
a	Finely Fragmental
aa	Medium Fragmental
aaa	Coarsely Fragmental

		FOSSILS ACCESSORY FEATURES
		FORM TOP & FOOTAGE
		POROSITY
	LITHOLOGY	TOPOGRAPHIC EXPRESSION
		CRYSTAL OR GRAIN SIZE
		SAMPLES
	DESCRIPTION	
200		

	Anhydrite		Conglomerate
	Calcareous Shale		Breccia
	Dolomite		Covered
	Dolomitic Shale		

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Fair
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
Fort Creek		62				9	
		44				9	SH more siliceous
Top Hare Indian?		27				7	
		14				6	CONCRETEOUS, LIMY
	100	09					PYLITIC
		91				5	
		73				4	SH CARBONACEOUS AND
Top Nahanni		54				3	BITUMINOUS
		36			II	2	LST gy MASSIVE
		18			X	1	

SECTION 005033 LAT 63° 18' N
 Twp Sec Rge M LONG 123° 38' W
 FORMATION TOP NAHANNI AGE M/V. DEVONIAN
 LOCALITY W SIDE OF ROCHE QUI TREMPÉ A L'EAU / 7 MILES NW OF WRISLEY
 GRID AREA NTS 95-0-SW PHOTO A 12710-246
 MEASURED BY EVERS & DOYLE DATE JULY 23/65
 PLOTTED BY H. EVERS DATE AUG. 14/65
 SOURCE OF DATA SECTION

REMARKS HOT SULPHUR SPRINGS IN TOP NAHANNI + REC.
 GYPSUM DEPOSITS, IMM. ABOVE THE HIGH WATER
 LEVEL OF THE MACKENZIE RIVER

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Grinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

1	Cryptocrystalline
11	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	22 20					3	HARE INDIAN ? ERODED (GLACIAL)
BIT.		oo					
A, B,		++					D.G.Y. RESISTANT, UNEVENLY

A	Asphalt
B	Bitumen
C	Salt Costs

- ☼ Algae or Strum
- Oil Stain
- xx Bentonite

POROSITY

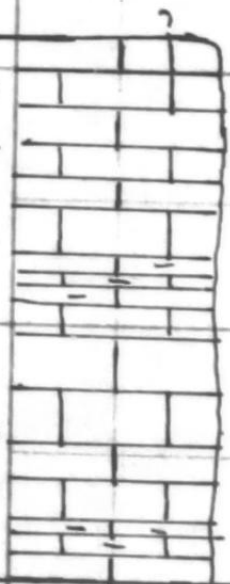
SAMPLES

VUGGY	INTERGRAN
0	Poor +
0 0	Fair + +
0 0 0	Good + + +
0 0 0 0	Very Good + + + +

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

1	Cryptocrystalline
11	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran.
4	Finely Fragmental
44	Medium Fragmental
444	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	22 20					3	HARE INDIAN ? ERODED (GLACIAL)
BIT. A,B, C,K,Z STROMS.	10	00 ++ + 00				2	D.GY. RESISTANT, UNEVENLY BEDDED, MASSIVE TO SLAB- BY MICRITE (2 & 2S), CALCARENITE AND LOCALLY
		+ ++ 00 ++				1	BIOLITHIC LS. (REEFOID?) MIXED FACIES
	0						
2 of 2							

-  Algae or Strum
-  Oil Stain
- Bentonite

SAMPLES

VUGGY	INTERCRAN	
0	Poor	-
0 0	Fair	+ +
0 0 0	Good	+ + +
0 0 0 0	Very Good	+ + + +

F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

1	Cryptocrystalline
1-1	Microcrystalline
2	Finely Cryst or Gran
22	Medium Cryst or Gran
222	Coarse Cryst or Gran
3	Finely Fragmental
33	Medium Fragmental
333	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	22 20					3	HARE INDIAN ? ERODED (GLACIAL)
BIT. A, B, C, K, Z STROMS.	10	00 ++ + 00				2	D.GY. RESISTANT, UNEVENLY BEDDED, MASSIVE TO SLAB- BY MICRITE (Z & ZS), CALCARENITE AND LOCALLY
		+ ++ 00 ++				1	BIOLITHIC LS. (REEFOID?) MIXED FACIES
	0						
2 of 2							

SECTION 005034 LAT 63°17' N
 Lsd. Sec. Twp Rge M LONG 123°38' W
 FORMATION NAHANNI LS. AGE M. DEV.
 LOCALITY MACKENZIE R. ca. 2m. N WRIGLEY
 GRID AREA 95-0-SW PHOTO A.12701-246
 MEASURED BY H.S. WALTON + IN. CHUBA DATE JUN 69
 PLOTTED BY H.S.W. DATE 17 Sept 69
 SOURCE OF DATA VERRELL FIELD PTY. 1969
 REMARKS INCLUDES PROBABLE TECTONIC
REPETITION OF TOP OF NAH. LS.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

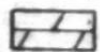
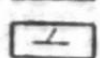
F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
CRIN. GASTR.						6	Ls, arg. micr. repeated top. of Nahanni. covered interval
GRIN COR.	NAH				x	5	Ls, biomicr. v. crinoidal Ls, biomicr. v. crinoidal

1 of

 argillaceous Shale
 Dolomite
 Dolomitic Shale

 Conglomerate
 Breccia
 Covered

ACCESSORIES

 Ironstone
 C Carb. Flecks
 □ Pyrite
 ⊙ Crinoidal
 B Bitumen
 ▢ Salt Casts

 Glauconite
 Coal or Coaly
 △ Micaceous
 Algal or Strom.
 ● Oil Stain
 xx Bentonite

POROSITY

VUGGY INTERGRAN
 ○ Poor +
 ○ ○ Fair ++
 ○ ○ ○ Good +++
 ○ ○ ○ ○ Very Good ++++

SAMPLES

F Fossil
 L Lithology
 P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst. or Gran.
 ○ Finely Fragmental
 ○ ○ Medium Fragmental
 ○ ○ ○ Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
CRIN. GASTR.				?		6	Ls, arg. micr. repeated top. of Nahanni. covered interval
CRIN. COR. GAST. CRIN.	NAH	○			x x x	5 4 3 2 1	Ls, biomicr. v. crinoidal. Ls, biomicr. blocky-massive dk. gy/dk. brn. gy. weath. pale br. gy/gy. sl. nod. irreg. Gdg. pyrobit. in joints.

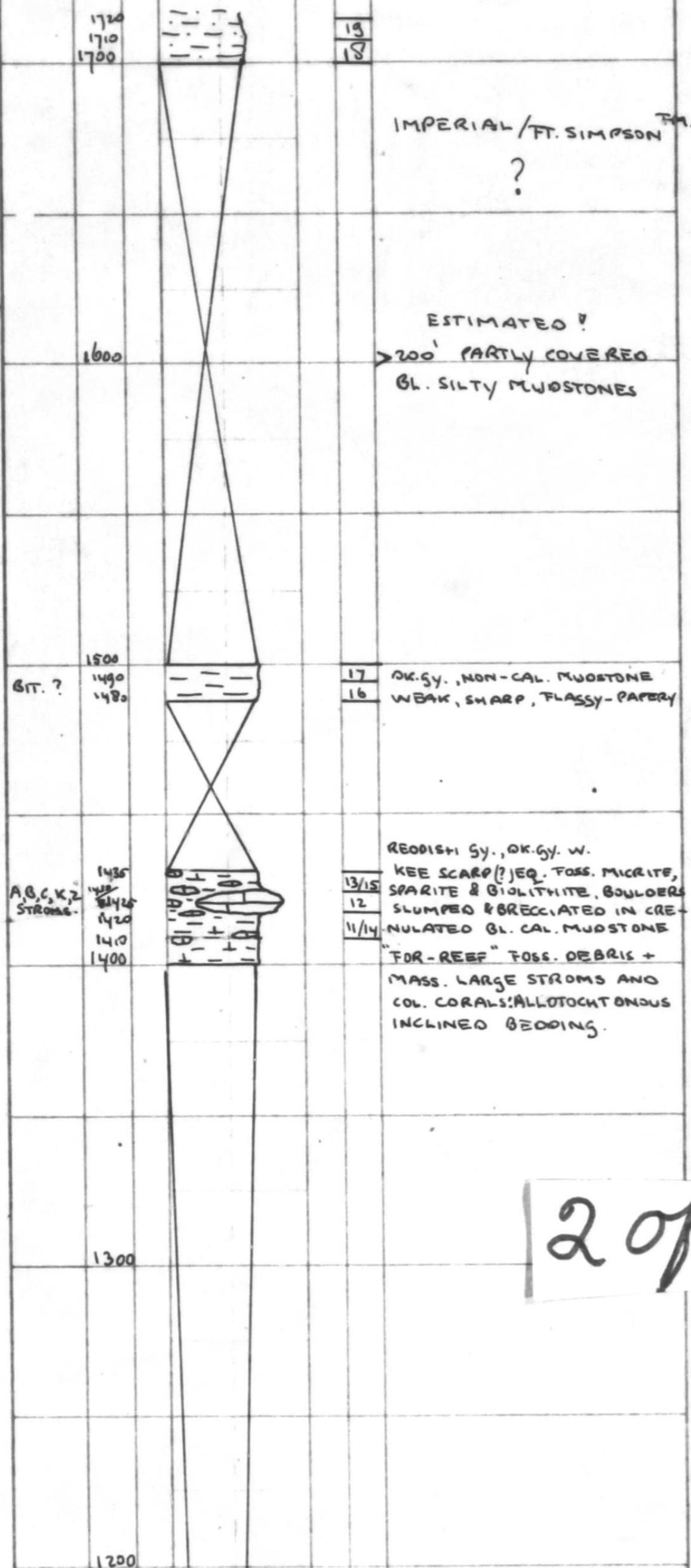
2 of 2

REMARKS POORLY EXPOSED & FOLDED "OFF-REEF" SECTION
N. OF KEESARP REEF EXPOSURE (SECTION:)

1 of

SECTION CAN BE CONTINUED AND
SHOULD BE MEASURED IN MUCH MORE DETAIL

SECTION CAN BE CONTINUED AND
SHOULD ^{BE} MEASURED IN MUCH MORE DETAIL



1100

1000

900

HORN RIVER FM.
OR FT. CREEK.

ESTIMATED THICKNESS
FOLDED SILTY MUONSTONES

800

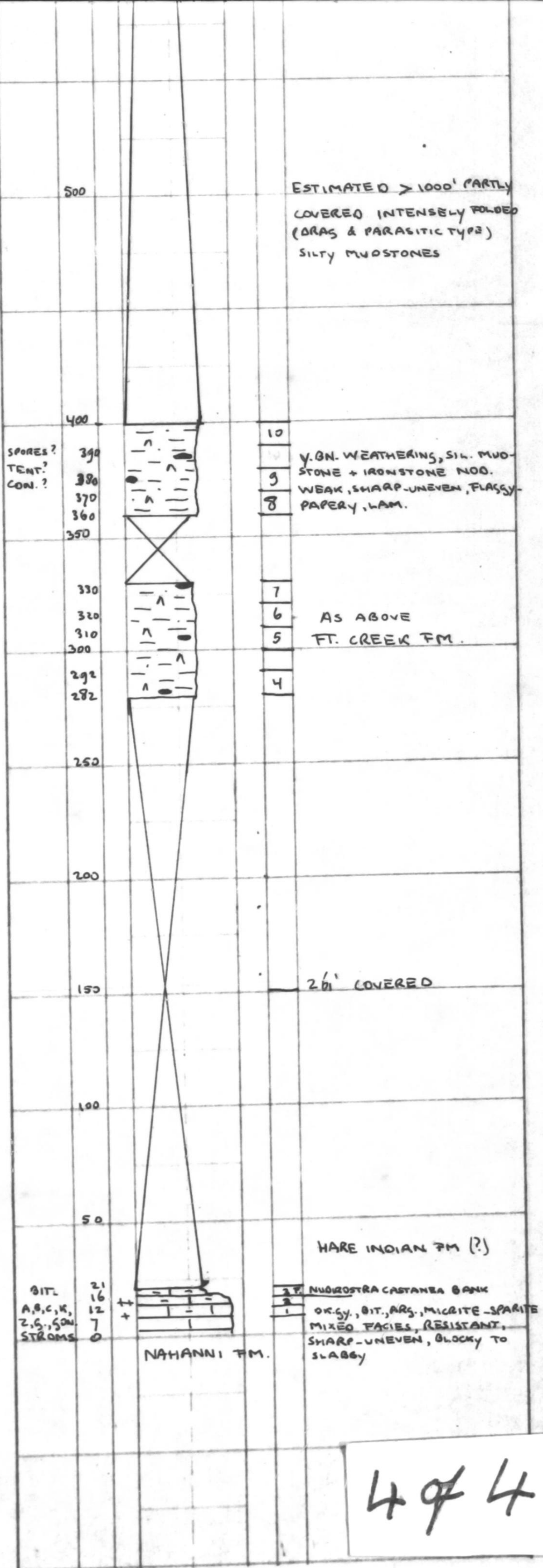
700

39

600

500

ESTIMATED > 1000' PARTLY
COVERED INTENSELY FOLDED
(ORAG & PARASITIC TYPE)
SILTY MUONSTONES



4 of 4

SECTION 005037 LAT 63° 34' N
 Lsd. Sec. Twp Rge M LONG 125° 33' W
 FORMATION NAHANNI - HORN RIVERAGE M. & U. DEVONIAN
 LOCALITY W. OF REOSTONE RIVER CANYON
 GRID AREANTS. 95-N-NW PHOTO A 12042-18
 MEASURED BY EVERS/WALTON/DOYLE DATE JULY 5/69
 PLOTTED BY H.J. EVERS DATE AUG. 27/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair + +
o o o	Good + + +
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

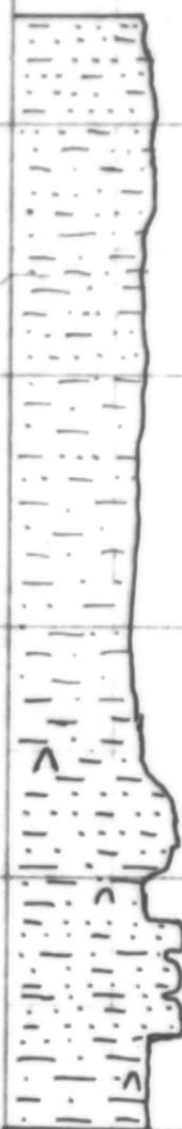
400

300

200

CON. ?
OSTRAC.
WORM
TRACKSFeS₂ 100

TENT.

TENT.
CON. ? OSTR.BIT. Fe.
A, B, C, K,
S, Z.

NAHANNI FM.

24 BN. SILTSTONES & MUONSTONES
23 SEPTARIAN NOODLES, MODERATE
SHARP-UNEVEN, SLABBY-PLATY

22 AS BELOW

MODERATE-WEAK, SLABBY-PLATY
BN. SY. SILTY MUONSTONES

21 FT. SIMPSON FM.
20 HORN RIVER FM.

19
18
17 SIL. SILTSTONE + SS.
16 RESISTANT - MODERATE,
15 SHARP-UNEVEN, MASSIVE
TO BLOCKY
14 AS BELOW

← PARASITIC & DRAG FOLDS
CALCITE & FLUORITE VEMS!
13 Y. SY. SIL. SILTY MUONSTONES
MODERATE TO WEAK, UNEVEN,
SLABBY TO PLATY.
12 FT. CREEK FM.

11 ← ?
10 HARE INDIAN FM.
STRONGLY FAULTED & FOLDED
9 MANY IRONSTONE NOD.
8 BL. CAL. BIT. MUONSTONES +
7 MICRITE LENSES

6 WEAK, SHARP, SLABBY-PLATY.
5 LAM. AND NOODULAR LS.

4 HARE INDIAN FM.
3 CAL., PYR. BL. MUONSTONE

2 BK. SY., ARG. MICRITE & SPARITE
1 RESISTANT, UNEVEN, BLOCKY

393

SECTION 00503g LAT 63° 17' N
 Lsd Sec Twp Rge M LONG 125° 40' W
 FORMATION NAHANNI-HORN RIVER AGE M & V. DEVONIAN
 LOCALITY UPPER ROOT RIVER
 GRID AREA NTS 95-N-SW PHOTO A 12061-22
 MEASURED BY EVERS-SCHULTHEIS-CHUPA DATE July 7/69
 PLOTTED BY H.J. EVERS DATE Aug. 27/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

- | | |
|------------------|-----------------|
| Shale | Shale Limestone |
| Siltstone | Shale Dolomite |
| Sandstone | Chert |
| Limestone | Anhydrite |
| Calcareous Shale | Conglomerate |
| Dolomite | Breccia |
| Dolomitic Shale | Covered |

ACCESSORIES

- | | |
|--------------|----------------|
| Ironstone | Glaucanite |
| Carb. Flecks | Coal or Coaly |
| Pyrite | Micaceous |
| Crinoidal | Algae or Strom |
| Bitumen | Oil Stain |
| Salt Casts | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

SECTION 00503g LAT 63° 17' N
 Lsd Sec Twp Rge M LONG 125° 40' W
 FORMATION NAHANNI-HORN RIVER AGE M & V. DEVONIAN
 LOCALITY UPPER ROOT RIVER
 GRID AREA NTS 95-N-SW PHOTO A 12061-22
 MEASURED BY EVERS-SCHULTHEIS-CHUPA DATE July 7/69
 PLOTTED BY H.J. EVERS DATE Aug. 27/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

- | | |
|------------------|-----------------|
| Shale | Shale Limestone |
| Siltstone | Shale Dolomite |
| Sandstone | Chert |
| Limestone | Anhydrite |
| Calcareous Shale | Conglomerate |
| Dolomite | Breccia |
| Dolomitic Shale | Covered |

ACCESSORIES

- | | |
|--------------|----------------|
| Ironstone | Glaucanite |
| Carb. Flecks | Coal or Coaly |
| Pyrite | Micaceous |
| Crinoidal | Algal or Strom |
| Bitumen | Oil Stain |
| Salt Casts | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|-------|-----------|
| Poor | Fair |
| Good | Very Good |

SAMPLES

- | |
|-----------|
| Fossil |
| Lithology |
| Porosity |

CRYSTAL OR GRAIN SIZE

- | |
|------------------------|
| Cryptocrystalline |
| Microcrystalline |
| Finely Cryst. or Gran. |
| Medium Cryst. or Gran. |
| Coarse Cryst. or Gran. |
| Finely Fragmental |
| Medium Fragmental |
| Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	662 657 650					31	GN. SY. SILTY MUDSTONE MODERATE - WEAK, UNEVEN, FLASSY - PAPERY.
	600						
	551 550					30	MICACEOUS, SILT- & MUO- STONES AS BELOW
	543						
	500						
	472					29	
POLLEN?	460						Y. GN. SY. SILTSTONES & MUO- STONES, MODERATE - WEAK, SHARP - UNEVEN, SLABBY - PLATY.
	444					28	FT. SIMPSON FM.
	423					27	VERY SOFT ? TOP HORN RIVER FM.
B	421					26	NON-CAL., Y. GN., MUOY SILTSTONES
	414					25	MODERATE, UNEVEN, MASSIVE TO FLASSY, LOADCASTS, GRADED GEO.
	400					24	VERY SOFT (3)
	390					23	BL. CARB. SOFT, NON-CAL. MUO- STONE, WEAK, SHARP, PLATY- PAPERY, LAM.
	372					22	
	354						
	321					21	
	304					20	DK. GN. SY., SIL., SILTY MUO- STONES, WEAK, AS ABOVE
	300						
	292					19	LESS SILICEOUS
	280					18	VERY SILICEOUS
	270					17	Y. SY., GN. WEATHERING + SULPHUR COATINGS.
	263					16	SIL., FER. SILTY MUO- STONES + SILTSTONES + IRONSTONE NOO.
	255					15	MOD. WEAK, SHARP, FLASSY TO PAPERY
	237					14	
	220					13	FT. CREEK FM.
	203					12	HARE INDIAN FM.
	200					11	AS BELOW
	186					10	
	172						
	156						
	144						
	133						

2 of

POLLEN?	472 460		29	Y. GN. SY. SILTSTONES & MUO-STONES, MODERATE - WEAK, SHARP - UNEVEN, SLABBY - PLATY.
	444		28	FT. SIMPSON FM.
	423 421 414		27	VERY SOFT ? TOP HORN RIVER FM.
B	400		26	NON-CAL., Y. GN., MUOY SILTSTONES
	390		25	MODERATE, UNEVEN, MASSIVE TO FLASSY, LOADCASTS, GRADED BED.
	372		24	VERY SOFT (3)
	354		23	BL. CARB. SOFT, NON-CAL. MUO-STONE, WEAK, SHARP, PLATY-PAPERY, LAM.
	321		21	
	304 300		20	OK. GN. SY., SIL., SILTY MUO-STONES, WEAK, AS ABOVE
	292		19	LESS SILICEOUS
	280		18	↓ VERY SILICEOUS
	270		17	Y. SY., GN. WEATHERING + SULPHUR COATINGS.
	263		16	SIL., FER. SILTY MUOSTONES + SILTSTONES + IRONSTONE NOO.
	255		15	WEAK, SHARP, FLASSY TO PAPERY
	237		14	
	220		13	FT. CREEK FM.
	203 200		12	HARE INDIAN FM.
	186		11	AS BELOW
	172		10	
	156		9	IRONSTONE NOO.
	144		8	
	133		7	BL. TO OK. SY. CAL, BIT. MUOSTONE
	116		6	WEAK, SHARP, FLASSY - PLATY, LAM.
	102 100		5	
BIT. TENT.	93		4	
	82		3	OK. GY., BIT., ARG. MICRITE, MIXED FACIES
	69		2	RESISTANT, UNEVEN, BLOCKY.
	58		1	
A, B, C, K, Z, G, STROMS. BIT.	43			CASTANEA BANK NOT EXP.
	27			
	13			
	0	NAHANNI FM.		

393

SECTION 005040 LAT 62° 45' N
 Lsd. Sec. Twp Rge M LONG 125° 02' W
 FORMATION NAHANNI - FT. CREEK AGE M & U. DEVONIAN
 LOCALITY LANDRY CREEK "CANYON"
 GRID AREA NTS 95-K-NW PHOTO A 12063-431
 MEASURED BY EVERS, SCHULTHEIS, CHUPA DATE JULY 7/69
 PLOTTED BY H.J. EVERS DATE AUG. 27/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

- | | |
|------------------|-----------------|
| Shale | Shale Limestone |
| Siltstone | Shale Dolomite |
| Sandstone | Chert |
| Limestone | Anhydrite |
| Calcareous Shale | Conglomerate |
| Dolomite | Breccia |
| Dolomitic Shale | Covered |

ACCESSORIES

- | | |
|--------------|----------------|
| Ironstone | Glaucanite |
| Carb. Flecks | Coal or Coaly |
| Pyrite | Micaceous |
| Crinoidal | Algal or Strom |
| Bitumen | Oil Stain |
| Salt Casts | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
500	54 538 538 529 522 512 500					19 18 17 16 15 14	↑ >100' EXPOSED IN CLIFF Y.-RUSTY W., OR. GY. SIL. MUD STONES + SOME SILT MODERATE, SHARP, SLABBY- PAPERY, LAM.

SECTION 005041 LAT 62° 44' N
 Twp Rge M LONG 125° 20' W
 FORMATION NAHANNI - HORN RIVER M. & U. DEVONIAN
 LOCALITY UPPER ROOT RIVER
 GRID AREA NTS. 95-K-NW PHOTO. A 12022-214
 MEASURED BY EVERS & SCHULTHEIS DATE JULY 8/69
 PLOTTED BY H.J. EVERS DATE AUG. 15/69
 SOURCE OF DATA SECTION
 REMARKS THICKNESSES WERE ESTIMATED!

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Corb. Flecks		Coal or Coaly
	Pyrite		Siliceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

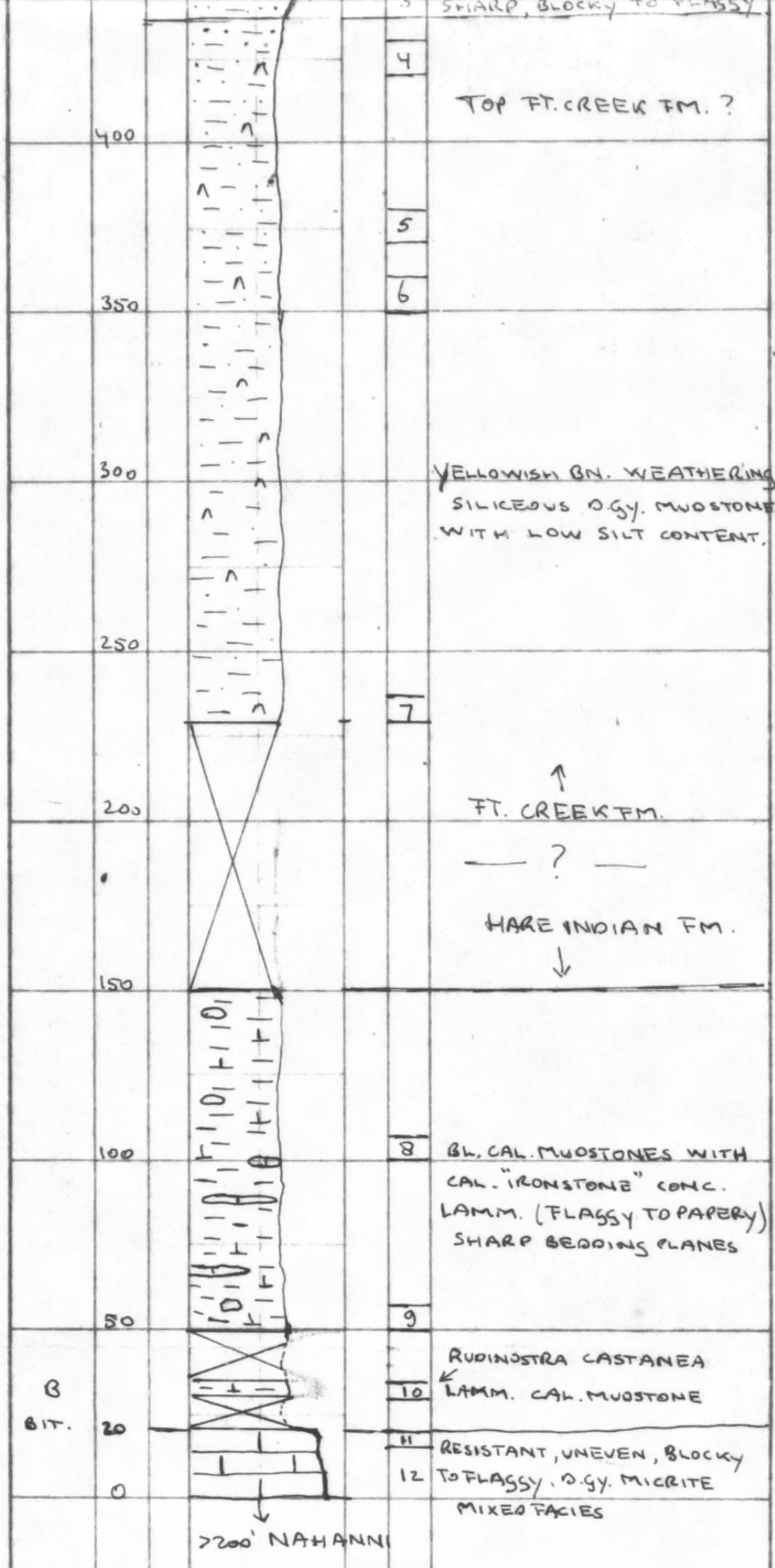
FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

- CRYSTAL OR GRAIN SIZE
- I Cryptocrystalline
 - II Microcrystalline
 - x Finely Cryst. or Gran.
 - xx Medium Cryst. or Gran.
 - xxx Coarse Cryst. or Gran.
 - o Finely Fragmental
 - oo Medium Fragmental
 - ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	600						
	550						← PARASITIC & MICRO FOLDING.
						1	MICACEOUS MUDSTONES
						2	WITH INCREASING SILT CONTENT TOWARDS TOP
	500						SHARP/UNEVEN, PLATY, LAMM.
	450						HORN RIVER (EQ.) FM.
						3	(CAL.) GR. GY. SILTSTONES, MODERATE SHARP, BLOCKY TO FLASSY
						4	
	400						TOP FT. CREEK FM. ?
						5	
	350					6	
	300						YELLOWISH BN. WEATHERING SILICEOUS O.GY. MUDSTONES WITH LOW SILT CONTENT.
	250					7	
	200						↑ FT. CREEK FM.

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393

SECTION 005022 LAT 65° 02' 5" N
 Lsd Sec Twp Rge M LONG 129° 13' 5" W
 FORMATION NAHANNI - IMPERIAL AGE M&U. DEVONIAN
 LOCALITY GAYANA RIVER AREA, S. OF BIG LAKE
 GRID AREA NTS. 106-H-SW PHOTO A 12958-20
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 26/69
 PLOTTED BY H.J. EVERS DATE AUG. 19/69
 SOURCE OF DATA SECTION
 REMARKS KEE SCARP EQ. REEF DEVELOPMENT!

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

1700

1650

1600

THIS SECTION CAN BE EXTENDED FOR SEVERAL 100'.

1550

C, Z, K

1500

OSTRAC.
PLANT FRAG.

1450

1400

1350

±250' COVERED

1300

1250

1200

1150

OSTR.?

1100

Y. BN. SY.)

30

RES. ARN. LS., UNEVENTO NOD.
SLABBY-FLASSY, CALCARE-
NITE WITH MANY CORALS.

29

BN. SY., FINE GRAINED, WELL
SORTED, CAL. SILTSTONES & SS.
MODERATE, SHARP UNEVEN,
BLOCKY-PLATY (LAM.)
CARBONACEOUS BEDS

28

IMPERIAL FM.

2 of

27

AS BELOW

26

25

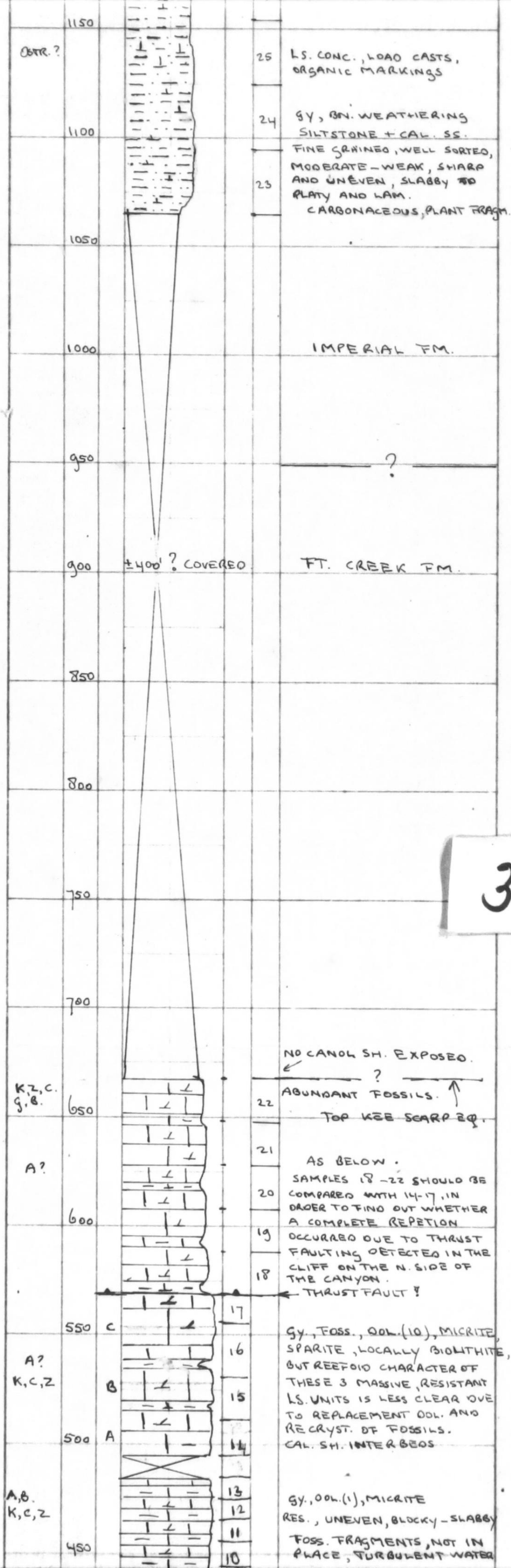
LS. CONC., LOAD CASTS,
ORGANIC MARKINGS

24

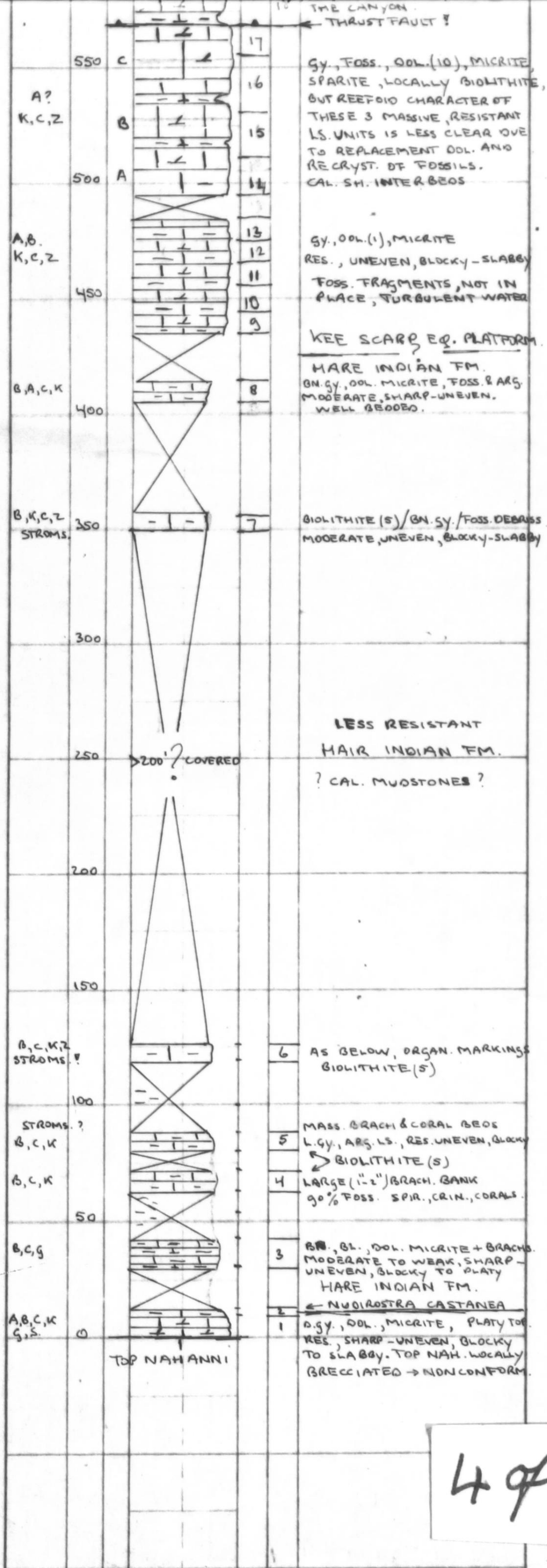
GY, BN. WEATHERING
SILTSTONE + CAL. SS.

23

FINE GRAINED, WELL SORTED,
MODERATE-WEAK, SHARP
AND UNEVEN, SLABBY TO
PLATY AND LAM.
CARBONACEOUS, PLANT FRAG.



39



4 of 4

SECTION 005024 LAT 64° 30' 50" N
 Lsd. Sec. Twp Rge M LONG 126° 20' W
 FORMATION NAHANNI - HARE INDIAN M & V. DEVONIAN
 LOCALITY LITTLE BEAR RIVER
 GRID AREA NTS. 96-D-NE PHOTO A-12063-406
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 21/69
 PLOTTED BY H.J. EVERS DATE AUG. 26/69
 SOURCE OF DATA SECTION
 REMARKS SECTION CONTINUES 1/2 MILE FURTHER E.
BEING SECTION 005023.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

- I. Cryptocrystalline
- II Microcrystalline
- x Finely Cryst. or Gran.
- xx Medium Cryst. or Gran.
- xxx Coarse Cryst. or Gran.
- o Finely Fragmental
- oo Medium Fragmental
- ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	200						
	153						
	152						
BIT.	143					16	CANON EQ. ?
	133					15	VERY SOFT/WEAK BL. BIT. MUDST.
	123					14	
	113					13	
	103					12	
	100						AS BELOW
TENT.	93					11	BL. CAL. MUDSTONES + CAL.
BIT.	83					10	CONC. / MODULES
	73					9	
	63					8	
	53					7	
	50					6	MODERATE, SHARP-UNEVEN,
	48					5	↑ SLABBY-PLATY, LAM.
	37					4	WEAK
	26					3	BL. CAL. SH. WITH LS. CONC.
	16					2	
TENT., CON?	5					1	NO CASTANEA MARKER
A,B,C,K,Z	2						SHARP ? DISCONFORM. CONTACT
BIT.	0	++	NAHANNI FM.				OK. SY, ARG, OR. MICRITE WITH SPARITE & OLIVITE LENSES, VERY FOSS. BUT NOT REEFOID, MIXED FACIES RES. SHARP-UNEVEN, SLABBY

2 of 2

SECTION 005026 LAT 64° 56' N
 Lsd. Sec. Twp Rge M LONG 127° 14' 30" W
= MTW. KINOLE + FRANKLIN MTN. FMS.
 FORMATION TYPE RONNING GROUP AGE DEVONIAN/SILURIAN
 LOCALITY W SIDE DODO MTN. & CANYON
 GRID AREA NTS. g6-D-NW PHOTO A12147-17
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 22/23 '69
 PLOTTED BY H.J. EVERS DATE AUG. 15 / 69
 SOURCE OF DATA SECTION
 REMARKS SECTION MEASURED FROM TOP 0000 MTN. E-MOST
DOWN ALONG W FLANK UNTIL SCREE, COVERED
BASAL PART OF SECTION IN W. END OF 0000 CANYON.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

	500			13	RESISTANT, SHARP AND UNEVEN
				14	DUE TO ALGAL MATTS TRAP-
				15	PING THE FORMER CALCARENITE
				16	AND LIME MUO.
	450				SLABBY TO PLATY BEDDING
					WELL BEDDED
				17	
		+		18	VERY RESISTANT
A, K	400	+			GY. DOL. ALGAL FACIES?
				19	
	350				LESS RESISTANT PROBABLY
					MORE ARGILLACEOUS UNIT
	300				
A, K		+		20	
				21	L. TO D. SY., YELLOWISH BN.
		+		22	WEATHERING ARG. DOL.
	250			23	FROMING "HOO DOOS".
				24	REPLACEMENT DOLOMITE (6)
A		+		25	ALGAL FACIES, RESISTANT
		+		26	SHARP/UNEVEN, LAMM.,
		++		27	BLOCKY TO FLASSY, ARG.
	200				? CONTINUATION ABOVE SCREE W. SIDE 0000 MTN.
				62	BASAL FRANKLIN MTN. FM.
				61	MEASURED IN 0000 CANYON
				60	BUFF TO SY. ARG. & AREN. DOL.
				59	ALGAL FACIES, MODERATE
				58	SHARP UNEVEN BEDDING,
	150			57	BLOCKY TO FLAGGY.
A				56	X-BEDDING, CHERT CONC.
BIT.				55	LAMM. ALGAL MATTS
				54	WITH LOCALLY STROMATO-
				53	LITES
	100			52	FULLY DOLOMITIZED
A				51	MICRITE & CALCARENITE?
				50	AS BELOW, ALGAL MATTS
A, BIT.	50	+		49	X-BEDDING, BRECC., CHERT CONC.
				48	D. GY. SH, DOL. SS., AR. DOL.
				47	ALGAL FACIES
				46	MODERATE RES., BLOCKY TO SLABBY
				45	SHARP TO UNEVEN, GRADING GEO-
BIT., & MUSCOV.	0				DING. BRECC. + CHANNELING, X-GEO.
MICAL.					CONC. BL. CHERT NOO., WORM TRACKS
					Q + GR. SY. SH. FRAGM. AS BELOW
					STROMATOLITES
					SHARP DISCONFORMITY (EROS.)
					SALINE RIVER FM.
					(CAMBRIAN?)
					RED & GREEN ARENACEOUS
					SHALES

393

SECTION 00502g LAT 64° 8' N
 Lsd. Sec Twp Rge M LONG 125° 27' W
 FORMATION NAHANNI - HARE INDIAN M. U. DEVONIAN
 LOCALITY TRIBUTARY S. OF KEELE RIVER
 GRID AREA N.T.S. 96 - C - SW PHOTO A 11973 - 301
 MEASURED BY EVERS + DOYLE DATE JUNE 30/69
 PLOTTED BY H.J. EVERS DATE AUG. 27/69
 SOURCE OF DATA SECTION
 REMARKS

LITHOLOGY

- | | |
|--|---|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|--|
|  Ironstone |  Glauconite |
|  Carb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---|----------------|
|  | Poor + |
|  | Fair ++ |
|  | Good +++ |
|  | Very Good ++++ |

SAMPLES

- | |
|---|
|  Fossil |
|  Lithology |
|  Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|---|------------------------|
|  | Cryptocrystalline |
|  | Microcrystalline |
|  | Finely Cryst. or Gran. |
|  | Medium Cryst. or Gran. |
|  | Coarse Cryst. or Gran. |
|  | Finely Fragmental |
|  | Medium Fragmental |
|  | Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

SECTION 005030 LAT 65°0'40" N
 Lsd. Sec. Twp Rge M LONG 127°20' W
 FORMATION Nah. ls - Fe. ck. AGE DEV. M. + ? U.
 LOCALITY DODO CREEK
 GRID AREA 96-E-SW PHOTO A.12602-64
 MEASURED BY H.S. WALTON + P. DOYLE DATE 22 JUN 69
 PLOTTED BY H.S.W DATE 18 SEP 69
 SOURCE OF DATA VERRALL FIELD PARTY 1969
 REMARKS NS - I

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
			↑ several hundred ft similar looking lithology up section.				
GONIA TENT.	300'					22 21 20 19 18 17	Sh. black weath. sulphury, rusty gray/blk. v. dec. sl. calc. yell. weath. bands. 24B + 24 Foss. Sh. dk. gy - blk weath. sulphury + rusty. With ls. nod. bands to 9" (24B)
BRAC.						22 21 20 19 18 17	Sh. blk., sulph. / rusty weath. o.c. Fe nod. Sh. dk. gy. platy - papery, sulph. + rusty weath. ls. micrite > 10% crs. fract. blk. / s. by.
BRAC.	?XS					19 18 17	ls. micr. some with > 10% skelet. nr. top ls. micr. pale gy. weath. gy. / bf

1 of

B Bitumen
 Salt Casts

Oil Stain
 Bentonite

POROSITY

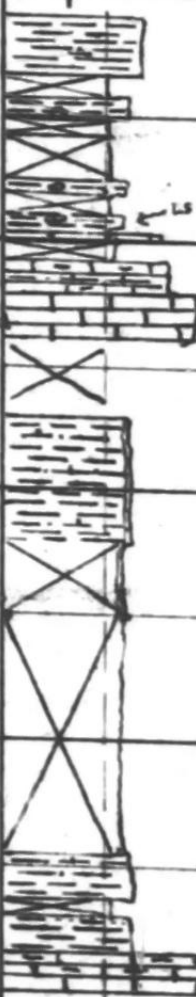
VUGGY INTERGRAN
 o Poor +
 o o Fair ++
 o o o Good +++
 o o o o Very Good ++++

SAMPLES

F Fossil
 L Lithology
 P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst. or Gran.
 xx Medium Cryst. or Gran.
 xxx Coarse Cryst. or Gran.
 o Finely Fragmental
 oo Medium Fragmental
 ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION	
				↑ several	hundred		ft similar looking lithology up section	
GONIAT. TENT.	300'					22 21 20 19 18 17 16 15	Sh. Glack weath sulphury, rusty w gy/bk. v. occ. sl. calc yell. weath bands. 24B + 24 Foss. Sh., dk gy - blk weath sulphury + rusty. With ls. nod bands to 9" (24B) Sh. blk., sulphy / rusty weath. occ. Fe nod. Sh. dk. gy. platy - papery, sulph + rusty weath ls. micrite > 10% crs. fract. blk / siby. dk. gy weath band ls. micr. some with > 10% skelet nr. top ls. micr. pale gy. weath. gy / bf bdg. nod. < 10% skelet.	
BRAC.							14 13 12 11 10 9 8	Sh. blk. weath. rusty, papery w rare fluggy sl. calc siltst bands Sh. blk. weath. rusty papery - fluggy " rare slabby calc. siltst bands Sh. sl. calc. in parts with occ. sl. calc siltst bands; blk weath rusty, papery - platy.
BRAC. COR.	200'						7 6 5 4 3 2 1	Sh. blk. with sl. calc. 2"-8" hd. bands " " non-calc. Sh. silty, calc. blk. slabby. " blk non-calc. papery ls. micr. gy. weath. fluggy arg., blk - platy, brachs. ls. dk. gy. weath. buff, micr. > 10% skelet., siby - blocky ? corals.
HI	200'							
	100'							
BRAC 200'	14'							

REMARKS IN THIS TRAVERSE THE RELATIONSHIP
BETWEEN THE FOUR MEASURED PARTS WAS
ESTIMATED. THE INTERVAL BETWEEN THE TOP OF
031 C + 031 E MAY BE NIL - AND THE SILT BANDS IN
031 D + E MAY CORRELATE.

NOTE LOC. 031 B had a full section of the 'Jungle Ridge ss'
but was not measured or sampled

LITHOLOGY

- | | | | |
|--|------------------|---|-----------------|
|  | Shale |  | Shale Limestone |
|  | Siltstone |  | Shale Dolomite |
|  | Sandstone |  | Chert |
|  | Limestone |  | Anhydrite |
|  | Calcareous Shale |  | Conglomerate |
|  | Dolomite |  | Breccia |
|  | Dolomitic Shale |  | Covered |

ACCESSORIES

- | | | | |
|---|--------------|---|-----------------|
|  | Ironstone |  | Glauconite |
| C | Carb. Flecks |  | Coal or Coaly |
|  | Pyrite | A | Micaceous |
|  | Crinoidal |  | Algal or Strom. |
| B | Bitumen |  | Oil Stain |
|  | Salt Casts | xx | Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

- | | |
|-----|------------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst. or Gran. |
| xx | Medium Cryst. or Gran. |
| xxx | Coarse Cryst. or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

[illegible]

SECTION 005032 LAT 65°19' N
 Lsd. _____ Sec. _____ Twp _____ Rge _____ M _____ LONG 127°52' W
 FORMATION D.K.S./D.HI/D.N.H. AGE M. DEV.
 LOCALITY WALKER CREEK (CLIFFS FLANKING LAKE)
 GRID AREA 46 E PHOTO A12590.297
 MEASURED BY H.S. WALTON + P. DOYLE DATE 24th JUN 69
 PLOTTED BY H.S. WALTON DATE 17th SEPT 69
 SOURCE OF DATA VERRALL FIELD PTY. 1969
 REMARKS _____

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Gooly
	Pyrite		Micaceous
	Crinoidal		Algo. or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst. or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

10

INTERGRAN

9

Peer

•

F. Foss

500

Fair

— —

Lithology

0 0 0

Good

D. FOXOS tv

□ □ □ □

Very Good + + + +

CRYSTAL OR GRAIN SIZE

2. Cryptocrystalline

11 Microcrystalline

x Finely Cryst or Gran.

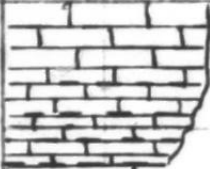
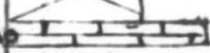
xx Medium Cryst. or Gran.

xxx Coarse Cryst or Gran.

• Finely Fragmented

9. Medium Fragmental

ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
COR. BRAC COR. HOLICOR.	K.S. ? HI.					1 2 3 4 5 6 7 8 9 10 11	Ls. sparnd./biolith., mass. bdg. Ls. irreg. Ls. mict./spart. scarce biolith. mass. irreg. bdg. skelet > 10% Ls. mict. skelet. supp. at top. blocky/slabby. rare shg. ptgs skelet < 10% covered interval (L. castanea beds not exposed) Ls. f.x. ? arg. flaggy/slabby " med x. blocky/slabby, sug. " fm. blocky
	100'						
	200'						
	300'						
	NAH 3966						
	caution porosity may be due to weathering.						
	Note - the section of the Nahanni Ls. is at top of a vertical cliff, only top 8'6" accessible.						

2 of 2

SECTION N SIDE IMPERIAL ANTICLINE AT 65° 28' N
 Lsd. Sec. Twp Rge M LONG 125° 50' W
 FORMATION IMPERIAL AGE DEVONIAN
 LOCALITY VIRGIN CREEK
 GRID AREA 005011 PHOTO A13305-401
 MEASURED BY P. VERRALL DATE JUNE 21-69
 PLOTTED BY R. ANTHONY & S. TODD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucinite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	120 118 110					4 3	MUDSTONES COME UP FOR ANOTHER 100' DEPOSED AT 25 of IMPERIAL MUDSTONES AND IMPERIAL MUDSTONES AND SH gy WITH 2-3" CONCRETIONARY BODIES.

1 of

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucinite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

1	Cryptocrystalline
11	Microcrystalline
x	Finely Cryst or Gran.
xx	Medium Cryst or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	130 118 100					4 3	MUDSTONES COME UP FOR ANOTHER 100' TO FORM 1ST 25 of IMPERIAL MUDSTONES MUDSTONES AND SH gy WITH 2-3" CONCRETIONARY Bands.
	34 19 10 2					2 1	SH gy SH VERY SLIGHTLY CALC. 2-3' CONCRETIONS PLATTENED IT TO BEDDING. GOOD IN PRESS IN CONC. HT gy MUDSTONES PER Bryozoans.

2 of 2

SECTION N Side IMPERIAL ANTICLINE AT 68° 28' N
 Lsd. Sec. Twp Rge M LONG 125° 50' W
 FORMATION IMPERIAL AGE DEVONIAN
 LOCALITY VIRGIN CREEK
 GRID AREA 005011 PHOTO A13305-401
 MEASURED BY P. VERRALL DATE JUNE 21-69
 PLOTTED BY R. AITKEN & S. TODD DATE SEPT 25-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

- | | |
|--|--|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|--|
|  Ironstone |  Glauconite |
|  Carb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---------|----------------|
| o | Poor + |
| o o | Fair ++ |
| o o o | Good +++ |
| o o o o | Very Good ++++ |

SAMPLES

- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|-----|-----------------------|
| I | Cryptocrystalline |
| II | Microcrystalline |
| x | Finely Cryst or Gran. |
| xx | Medium Cryst or Gran. |
| xxx | Coarse Cryst or Gran. |
| o | Finely Fragmental |
| oo | Medium Fragmental |
| ooo | Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	120' 118' 110'					4 3	BUDSTONES CONT UP FOR ANOTHER 100' TO FORM NET 25 of IMPERIAL BUDSTONES AND IMPERIAL MUONSTONS AND SN gy WITH 2-3" CONCENTRATED BYSTLS.

	Shale
	Siltstone
	Sandstone
	Limestone
	Calcareous Shale
	Dolomite
	Dolomitic Shale

	Shale Limestone
	Shale Dolomite
	Chert
	Anhydrite
	Conglomerate
	Breccia
	Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	120' 110' 100'					4 3	Substones come up for another 100' to 125' of Imperfect Substones and Imperfect Mudstone and SN gy with 2-3' concave beds.
	20' 15' 10'					3 1	Im gy sh very slightly calc. 20' concave flattened to bedding. bedding pres in conc. gy mudstone for Bryozoans.

Top K-Score

2 of 2

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good + + + +

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
IMPERFORAM ? TOP PORT CHALK ? DP REE → SCARP	? 85' 30' 40' 10'					4 3 2 1	SET gy gn SH BRN-BK SILICEOUS BANDS LST 2G, gy NOBULAR

2 of 2

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
800							

KEE

SEARP
B. III
700

B. K.

TOP HARE
INDIAN
600

500

400

300

200

TOP NAHANNY
100

0

62
47
42
32
22
12
02

92

62
39
38
26
14
02

90
85
75
70
54

06
00
79

79
64
47
34
27
24

94
85

36

82

19

03

99
98
72
61

42
38
31

10
67
56
49
42
37
28
14



18
17
16
15
14
13
12
11
10

gy-Bik

LST INTERBEDDED W. SOME
SHALE (SHALING OUT)
NODULAR TO UNEVEN BEDDED

RYTHMIC BEDDING, WITH
MORE LST GOING UP SECTION

SH BLK BIT MORE AND MORE
LIMY, AND LIMY BANDS.

SH BLK BIT PAPERY, LIMY,
SOME SILT, NO SILICA

LST gy, SOME SH INTER
BEDS TOWARD THE TOP

XII

2 of 2

SECTION 005014 LAT 65° 25' N
 Lsd. Sec. Twp Rge M LONG 128° 52' W
 FORMATION KEE SCARP-FORT CREEK AGE DEVONIAN
- IMPERIAL
 LOCALITY SOUTH FLANK OF IMPERIAL ANTICLINE
 GRID AREA 106-H-SE PHOTO A13305-401
 MEASURED BY R. SCHREINER + P. DOYLE DATE JUNE 21-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 23-69
 SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair - -
o o o	Good - - -
o o o o	Very Good - - - -

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran
xxx	Coarse Cryst or Gran
o	Finely Fragmental
o o	Medium Fragmental
o o o	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

 Dolomitic Shale

 Breccia
 Covered

ACCESSORIES

 Ironstone
C Carb. Flecks
 Pyrite
O Crinoidal
B Bitumen
 Salt Casts

 Glauconite
 Coal or Coaly
A Micaceous
 Algal or Strom
● Oil Stain
xx Bentonite

POROSITY

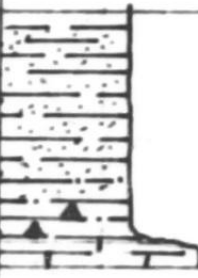
VUGGY INTERGRAN
o Poor +
o o Fair + +
o o o Good + + +
o o o o Very Good + + + +

SAMPLES

F Fossil
L Lithology
P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
II Microcrystalline
x Finely Cryst or Gran.
xx Medium Cryst or Gran.
xxx Coarse Cryst or Gran.
o Finely Fragmental
o o Medium Fragmental
o o o Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100						
IMPERIAL		93 79 65 56 45 34 22 11				8 9 6 5 4 3 2 1	SIXTY SHALY SST SH BLK BRN SIL. MICRITE Gy, MASSIVE
TOP FORT CREEK	?						
TOP KEE SCARP	0						

292

SECTION 005015 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 45' W
 FORMATION NAHANNI-HALE INDIAN AGE DEVONIAN
CANON / FORT CREEK - IMPERIAL
 LOCALITY POWELL CREEK, (WEST BANK)
 GRID AREA 106-H-SE PHOTO A12601-362
 MEASURED BY R SCHREINER + P. DOYLE DATE JUNE 20-69
 PLOTTED BY R SCHREINER + S. TODD DATE SEPT 22-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

- | | |
|--|---|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Chert |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|---|
|  Ironstone |  Glaucconite |
|  Corb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal. or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

- | VUGGY | INTERGRAN |
|---|--|
|  Poor |  + |
|  Fair |  ++ |
|  Good |  +++ |
|  Very Good |  +--- |

SAMPLES

- | |
|---|
|  Fossil |
|  Lithology |
|  Porosity |

CRYSTAL OR GRAIN SIZE

- | |
|--|
|  Cryptocrystalline |
|  Microcrystalline |
|  Finely Cryst. or Gran. |
|  Medium Cryst. or Gran. |
|  Coarse Cryst. or Gran. |
|  Finely Fragmental |
|  Medium Fragmental |
|  Coarsely Fragmental |

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

SECTION 005016 LAT 65° 02' N
 Lsd. _____ Sec. _____ Twp _____ Rge _____ M _____ LONG 125° 19' W
 FORMATION MAHANNI-HARE INDIAN AGE DEVONIAN
~~KEE SCARP - CANON / PORT CANNON~~
 LOCALITY SOUTH GAYNA RIVER (EAST OF RIVER)
 GRID AREA 106-H-SW PHOTO A12758-20
 MEASURED BY R. SCHREINER + P. DOYLE DATE JUNE 21, 1969
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 24 1969
 SOURCE OF DATA TAPED SECTION
 REMARKS _____

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

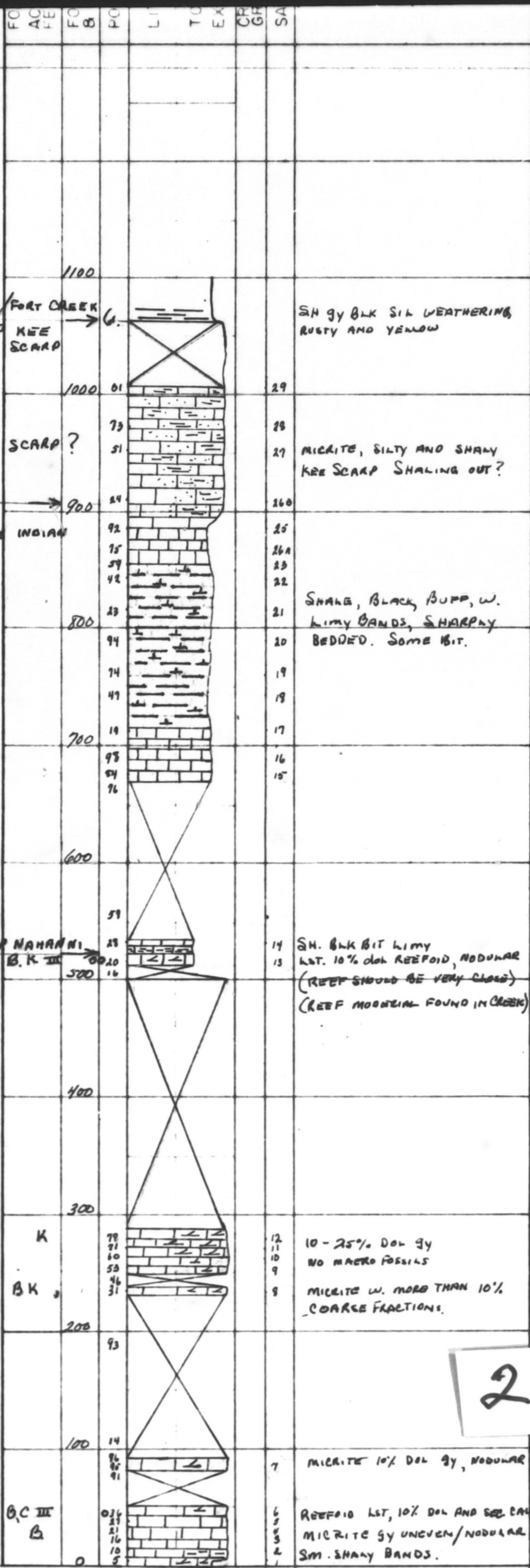
	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarse Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION



SECTION 005018 LAT 65° 14' N
 Lsd. Sec. Twp Rge M LONG 126° 23' W
 FORMATION NAHANNI HARB INDIAN AGE DEVONIAN
FORT CREEK-IMPERIAL
 LOCALITY FRANCIS CREEK
 GRID AREA 96-E-SE PHOTO A12590-45
 MEASURED BY R. SCHREINER + T. CHUPA DATE JUNE 23-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 26-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor
	Fair
	Good
	Very Good

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran
	Medium Cryst or Gran
	Coarse Cryst or Gran
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

1 of

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
----------------------------------	-----------------------	----------	-----------	---------------------------	--------------------------	---------	-------------

800

IMPERIAL ?
TOP FORT CM
700

40
39 Sst gy gm.

600

ESTIMATED THICKNESS
OF COVERED INTERVAL

500

35
29
16
400

38
37

imp
FORT CREEK

77
60
50
37
25
85
300

36
35
34
33
32
31

SH gy BIK SINICEDUS
WEATHERING YELLOW
AND RUGY

94
82
72
62

30
29
28
27

31

26

19

25

TOP NAAG
INDIAN

99
76
61
42
30
18
12
100

13
12
11
10
9
8
7
6
5
4
3
2
1

SH gy BIK AND BAN
SINTY IN PLACES

HI

SOME LMY AND

DEAD OIL
TOP WARRINI

0

SH BIK BIT OIL SMENT
MICRITE W. SH BANDS INTER

292

SECTION 005019 LAT 64° 45' N
 Lsd. Sec. Twp Rge M LONG 129° 30' W
 FORMATION NAHANNI - FORT CREEK AGE DEVONIAN
 LOCALITY S. of LITTLE VILLAGE
 GRID AREA 106-A-NE PHOTO A12230.80
 MEASURED BY R. SCHREINER + P. DOYLE DATE JUNE 24-69
 PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 29-69
 SOURCE OF DATA TAPED SECTION
 REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucanite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good +---

SAMPLES

	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst or Gran.
	Medium Cryst or Gran.
	Coarse Cryst or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 OF

 Dolomite
 Dolomitic Shale

 Breccia
 Covered

ACCESSORIES

 Ironstone
 C Corb. Flecks
 Pyrite
 Crinoidal
 B Bitumen
 Salt Casts

 Glaucanite
 Coal or Coaly
 A Micaceous
 Algal. or Strom
 Oil Stain
 xx Bentonite

POROSITY

VUGGY INTERGRAN
 o Poor +
 o o Fair ++
 o o o Good +++
 o o o o Very Good + + + +

SAMPLES

F Fossil
 L Lithology
 P Porosity

CRYSTAL OR GRAIN SIZE

I Cryptocrystalline
 II Microcrystalline
 x Finely Cryst or Gran.
 xx Medium Cryst or Gran.
 xxx Coarse Cryst or Gran.
 o Finely Fragmental
 oo Medium Fragmental
 ooo Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
FORT CREEK	100	85					SH DK gy, sinuous
HARB INDIAN?		88 77 65					
TOP HARB INDIAN?	6	22 18					MICRITE NODULAR gy.

SECTION 005021 LAT 65° 14' N
 Lsd. Sec. Twp Rge M LONG 128° 36' W
 FORMATION NAHANNI-FT. CREEK AGE M&V. DEVONIAN
 LOCALITY 1 MILE N. OF MOUNTAIN RIVER CANYON.
 GRID AREA NTS 106-H-SE PHOTO A 12595-311
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 18/69
 PLOTTED BY H.J. EVERS DATE AUG. 18/69
 SOURCE OF DATA SECTION
 REMARKS G.S.C. AND OTHER OIL CO. MEASURED THIS
SECTION BEFORE (PIANT MARKS & SAMPLE BAGS)

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Gauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Siliceous
	Crinoidal		Algal. or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY INTERGRAN

	Poor	+
	Fair	++
	Good	+++
	Very Good	++++

SAMPLES

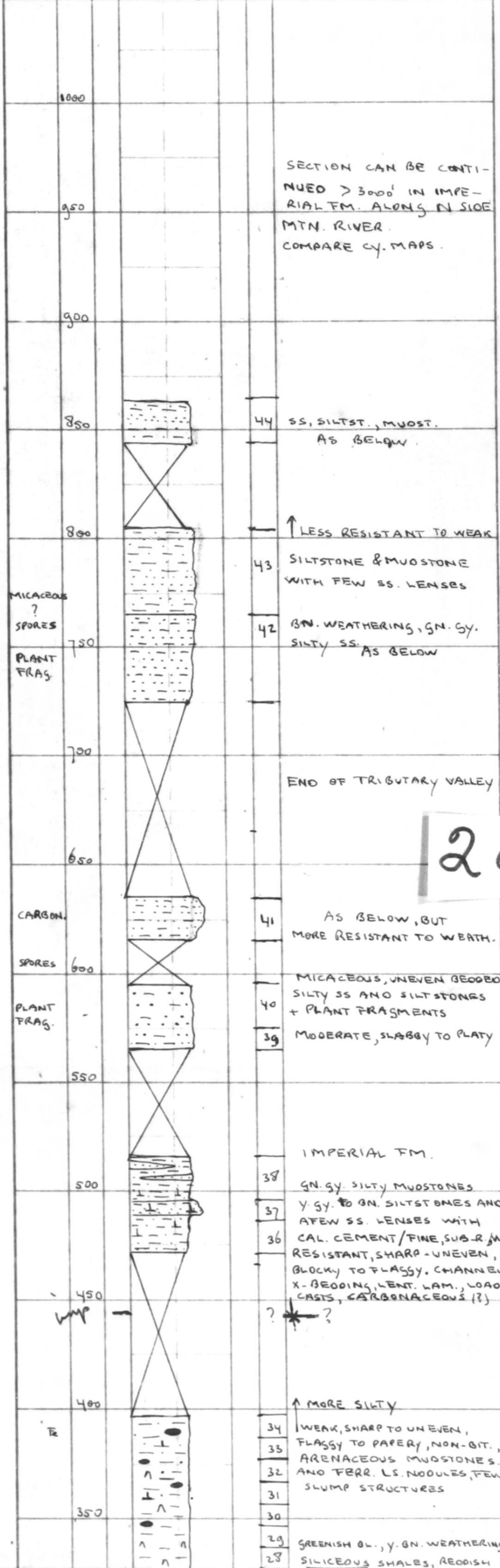
	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

	Cryptocrystalline
	Microcrystalline
	Finely Cryst. or Gran.
	Medium Cryst. or Gran.
	Coarse Cryst. or Gran.
	Finely Fragmental
	Medium Fragmental
	Coarsely Fragmental

FOSSILS	ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of



2 of



39/3

SECTION 005001 LAT 65° 17' 30" N
 Lsd. Sec. Twp Rge M LONG 126° 43' W
 FORMATION TOP KEE SCARP AGE M. DEVONIAN (GIV.)
 LOCALITY ± 1 MILE E OF NORMAL WELLS
 GRID AREA N.T.S g6-E-SE PHOTO A-12575/290
 MEASURED BY EVERS & SCHREINER DATE JUNE 13/69
 PLOTTED BY H. EVERS DATE AUG. 13/69
 SOURCE OF DATA SECTION
 REMARKS TOP OF PARA-TYPE SECTION IN THE KEE SCARP (HILLS) AND AT THE QUARRY. FULL SECTION CAN BE MEASURED ON E. CLIFF - SEE SECTION: G.S.C.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
	Poor +
	Fair ++
	Good +++
	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst or Gran
xx	Medium Cryst or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

P	Pyrite
O	Orinoidol
B	Bitumen
S	Salt Costs

-  Molluscs
-  Algae or Strum
-  Oil Stain
-  Bentonite

POROSITY

SAMPLES

VUGGY	INTERGRAN
o	Fair
o o	Fair
o o o	Good
o o o o	Very Good

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

1	Cryptocrystalline
10	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
xo	Medium Fragmental
oo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	0						
RAMPARTS	CB III	20					LST SKELETAL gy, dkgy
		35					LST DK gy NODULAR
TOP HARE INDIAN	40	41 42					* LIMY SHALES gy/Buff
		54					
		61					
		67					
		74					
		80					
		87					
		94					
	100	99					
		9					
		15					
		21					
		28					
		30					
		34					
B		48					
	150	53					
		63					
	200						

2 of 2

2 of 2

SECTION 005003 LAT 66° 13' 30" N
 Lsd. Sec. Twp Rge M LONG 128° 47' W
 FORMATION TYPE "RAMPARTS" AGE M. DEVONIAN
 LOCALITY APP. 1 MILE SW OF FORT GOOD HOPE
~~N.T.S.~~
 GRID AREA 106-1-SE PHOTO A-1257g/232
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 15 '69
 PLOTTED BY H. EVERS DATE AUG. 12/69
 SOURCE OF DATA SECTION
 REMARKS PARA-TYPE SECTION OF RAMPARTS FM. &
KEE SCARP FM. NEAR WATERFALL ON S. SIDE OF
RAMPARTS ALONG MACKENZIE RIVER.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal. or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

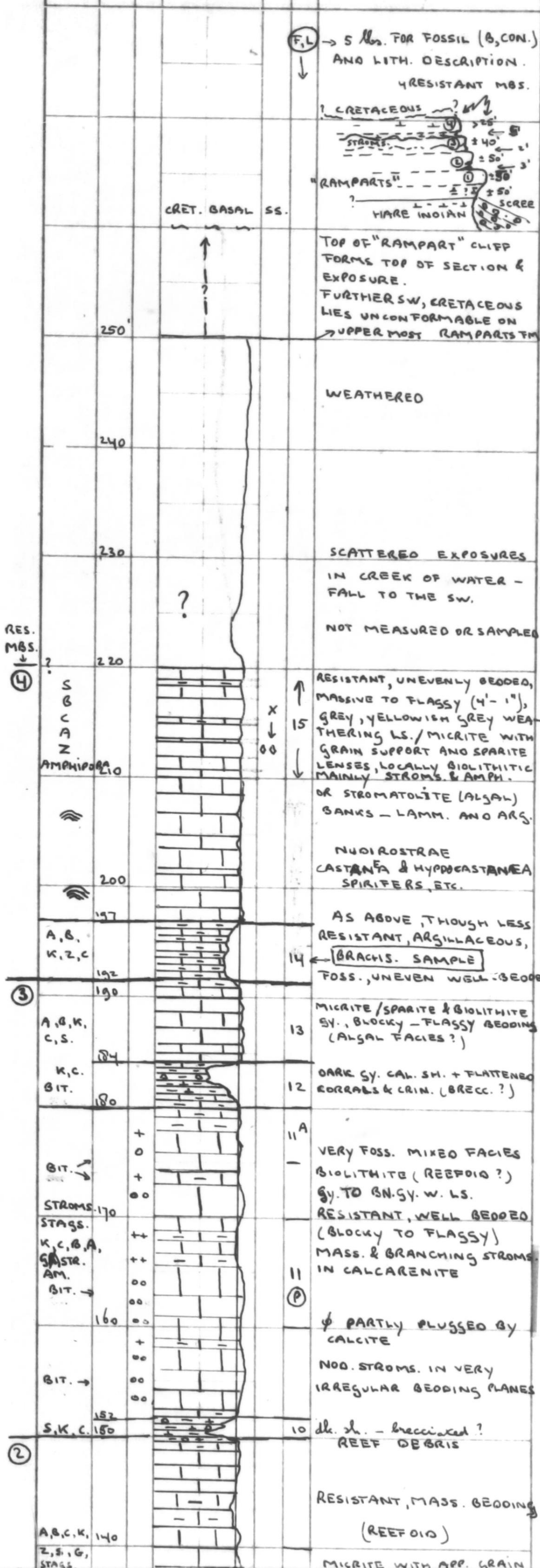
F	Fossil
L	Lithology
P	Porosity

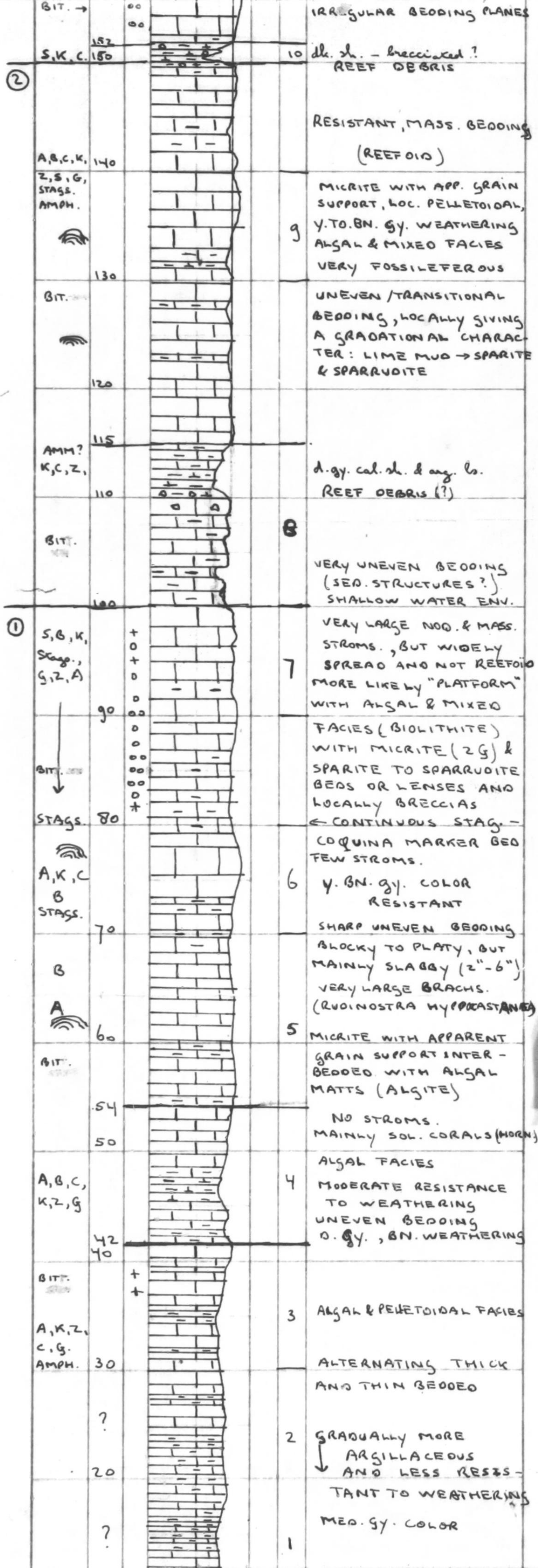
CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
						(F, L) →	5 lbs. FOR FOSSIL (B, CON.) AND LITH. DESCRIPTION. 4 RESISTANT MBS.
							! CRETACEOUS ? STROMES. 25' 40' 50'

1 of





SECTION 005005 LAT 65° 07' N
 Lsd. Sec. Twp Rge M LONG 127° 51' W
 FORMATION K/IMPERIAL AGE K/U. DEVONIAN
 LOCALITY IMPERIAL RIVER
 GRID AREA NTS 96 E. SW PHOTO A12599-282
 MEASURED BY H.S. WALTON + TNC DATE JUN 18-21-69
 PLOTTED BY L. KITCHEN (+ H.S.W.) DATE 24 SEP 69
 SOURCE OF DATA VERRALL FIELD PTY 1969
 REMARKS TYPE SECTION IMPERIAL FM.

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Corb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom.
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

I	Cryptocrystalline
II	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

900'

BRAC

52F+

Sh, ss. gr. 1st. pale buff.

Flagy - silty.

ss, silty, calc. + ferruginous.

SLTST. + some sh. X-bedding.

Flagy - buff.

SLTST. + sh, blk. - platy.

SLTST. + sh, gy. gr. n. + some

gr. SLTST. some margin.

Some bright gr. X-bedding.

SLTST. - buff.

800'

BRAC.

53h+

Coarse SLTST. to V. fine S.S.

bright gr. - to gy. / gr. n.

occ. margin Fe bands, platy buff.

SLTST. + sh. platy - blk.

X-bedding, buff lam.

SLTST. + sh, blk. - platy.

SLTST. + sh, gy. gr. n. - platy.

buff w. pale gy. / gy. SLTST.

platy. X-bedding, buff lam.

SLTST. + sh, platy - silty, gray.

+ gy. with pale buff + sh. n.

X-bedding

ripple marks

700'

BRAC.

COR.

54

SLTST. + sh, V. fine gr.

SLTST. - mass, X + even bedding.

28 Talus Foss (= Smp. 31 in place)

600'

BRAC

BRAC.

COA.

CRIN.

55

SLTST. + sh, platy - blk.

bedding. 1' pebbly, ferrug. band

SLTST. + sh, V. fine S.S., some X-bedding.

Flagy - blk.

SLTST. + sh, some X-bedding, most

even. Thin. Cgl. w. Foss. + Fe nod.

SLTST. + sh, platy - blk.

400'

BRAC.

57h+

SLTST. + sh, ls. gy. gr. n. 6' n.

n. with dk. gy. / gy. n., X-bedding.

well lam.

300'

BRAC.

58

SS. SLTST. + sh, V. fine S.S.

SLTST. + sh, platy - blk.

SLTST. + sh, gy. gr. n. with pale

buff. gy. / gy. blk. - papery.

well lam.

200'

BRAC

? EURYPTERID

59

SS. SLTST. SL. calc. Some blocks

SS. SLTST. S.S. V. fine gr. n.

gy. / gr. n. with pale gy. / gy. buff.

100'

BRAC

EURYPTERID

60

SLTST. + sh, some SLTST. thin

irreg. and bands.

SLTST. + sh, some sh, some bands

SL. calc.

SLTST. + sh, occ. SLTST. bands

Calc. + papery - blk., rarely

blk.

SLTST. + sh, minor Fe nod bands

some X-bedding, well

lam. platy.

0'

Details 1" = 20'

of interval 1811' - 1870'

1860'

Sh, dk. gy. papery

116 + 116 talus.

1840'

CRET

SS. siltst + sh bands blocky - flaggy

pale brn + gy.

1820'

DEV. IMP.

SS. f-m. gran., ? x-bedded

fairly porous, pale brn.

subrounded grains.

SS. f-m. gran., ? organically

disintegrated, w. thin iron sh. streaks

Cgl. pebbles up to 1 1/2" 2 3/4" thick

Sh, grn/gy. platy / papery

top 3' iron stained.

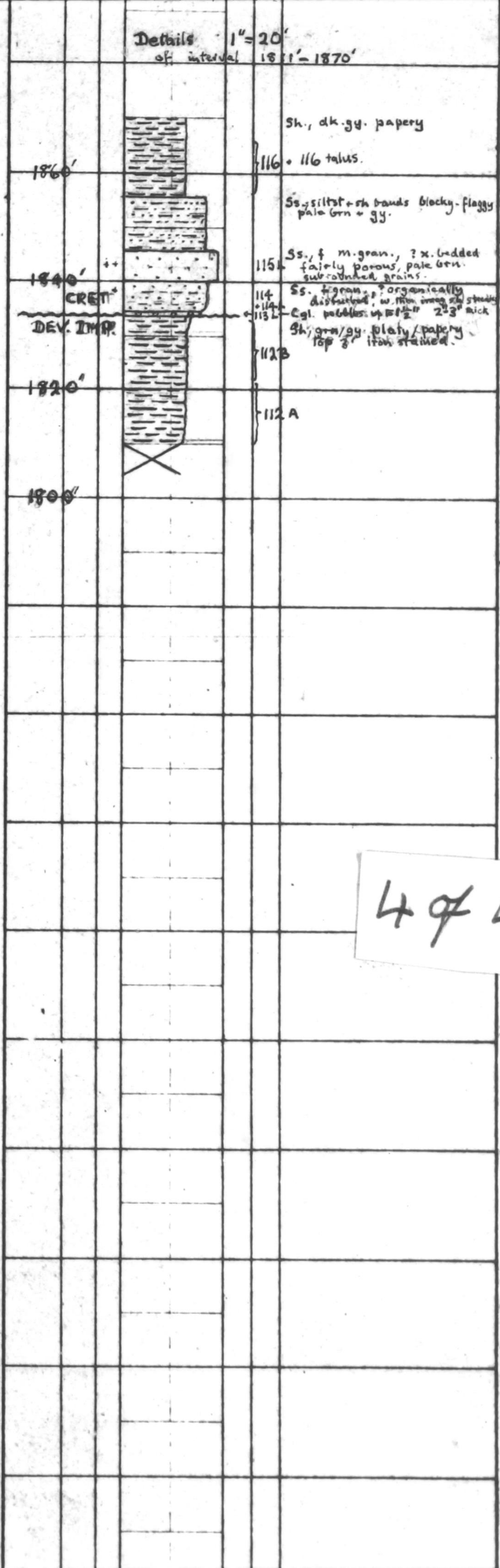
1800'

112B

112A

39

Details 1" = 20'
 of interval 1811' - 1870'



Sh., dk. gy. papery

1860'

116 + 116 talus.

Ss. siltst + sh bands blocky - flaggy
 pale brn + gy.

1840'

CRET

DEV. IMP.

115 Ss. f m. gran., ? x. bedded
 fairly porous, pale brn.
 subrounded grains.

114 Ss. f gran., organically
 distributed, w. thin irreg sh streaks
 113 Cgl. pebbles up to 1 1/2" 2" 3" max
 Sh. grn/gy. platy/papery
 top 3' iron stained.

112B

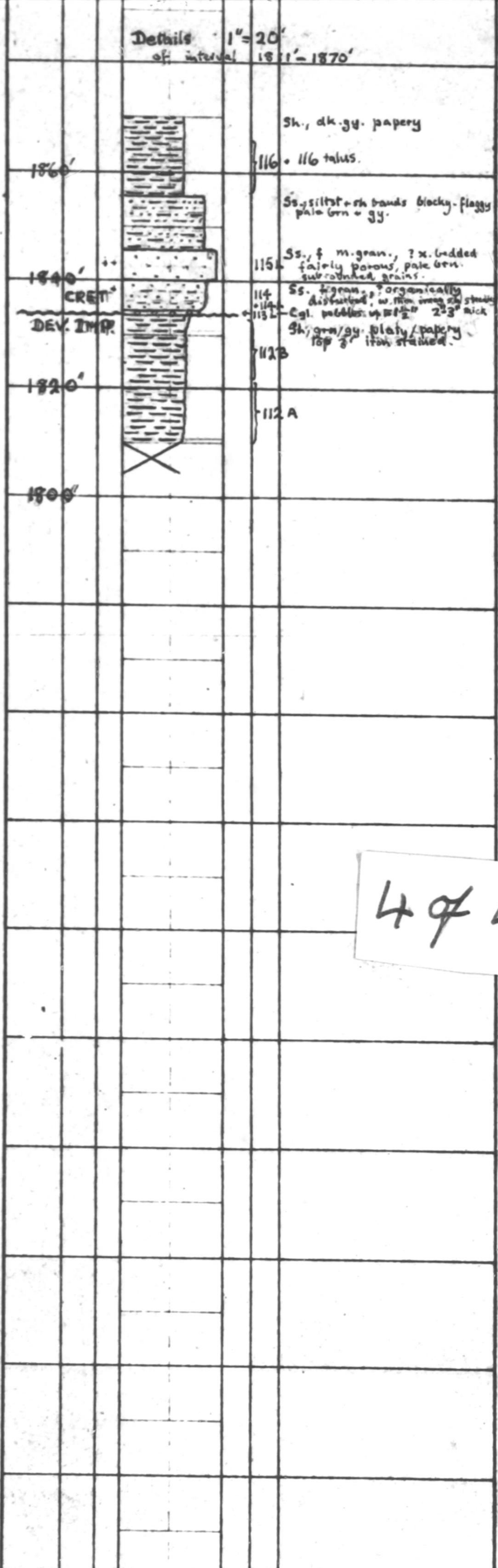
1820'

112A

1800'

4 of 4

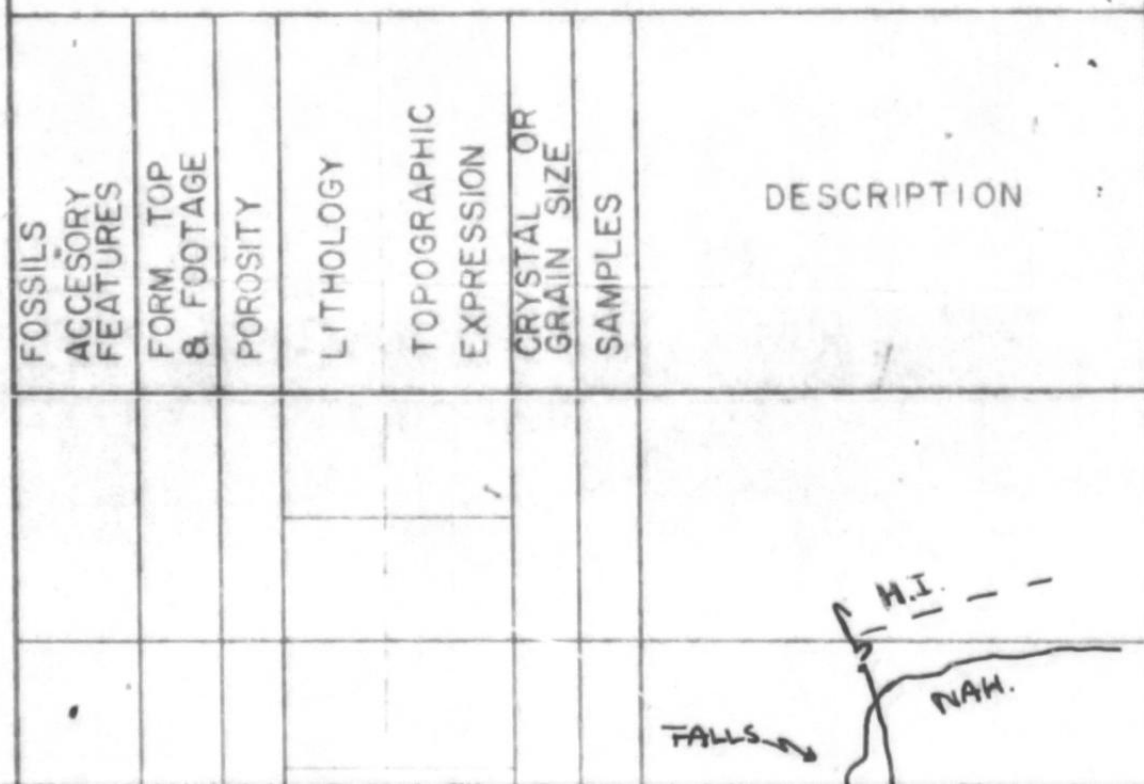
Details 1" = 20'
of interval 1871' - 1870'



4 of 4

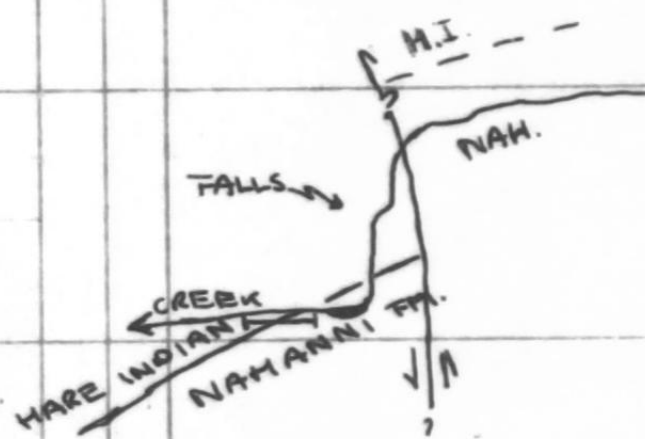
REMARKS STRUCTURALLY COMPLICATED SECTION AT
BASE LARGE WATERFALL OVER NAHANNIFM. CLIFF
SEE: R100EL4, 1964 # MAP: F-9422A, SECTION TL-14.

1 of

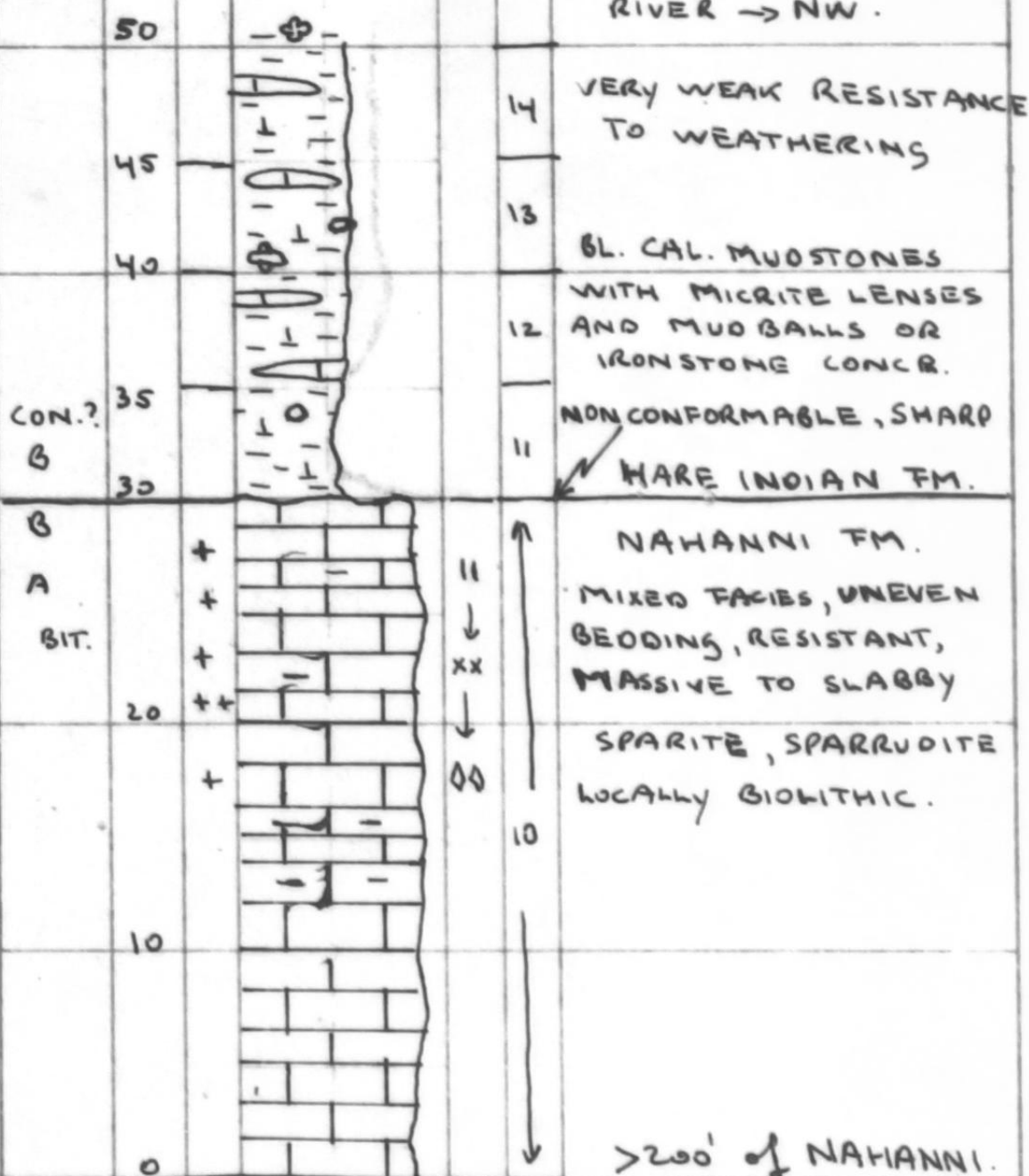


○○ Medium Fragmental
 ○○○ Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
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CONTINUED IN
 SECTION 005008
 ALONG MACKENZIE
 RIVER → NW.



SECTION 005007 LAT 64° 56' N
 Lsd. Sec Twp Rge M LONG 125° 41' W
 FORMATION TYPE BEAR ROCK AGE L/M. DEVONIAN
 LOCALITY E SIDE BEAR ROCK MTNS. 3 MILES NW OF
GRID AREA NIS. 96-C-NW PHOTO A 12033-47 ^{FT. NORMAN}
 MEASURED BY EVERS/SCHULTHEIS/CHUPA DATE JUNE 16/65
 PLOTTED BY EVERS DATE AUG. 13/65
 SOURCE OF DATA SECTION
 REMARKS PARA-TYPE, SINCE THE TYPE SECTION WAS
MEASURED ONE RIDGE FURTHER NE; DEGREE OF
EXPOSURE VERY LOW → ALL THICKNESSES ESTIMATED!

FOR PROPER THICKNESSES REFER TO G.S.C. REPORT

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Chert
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
	Carb. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crimoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

i	Cryptocrystalline
μ	Microcrystalline
x	Finely Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
							4 ABS. MBS. IN BEAR ROCK FM. 2 LANCY FM.? LAKE FRANKING MTN. FM. OF ROPPING

1 of

SECTION 005008 LAT 64° 56' N

Lsd Sec Twp Rge M LONG 195° 45' W

FORMATION NAHUVI-HALE INDIAN AGE DEYONIAN-CRETACEOUS
KEE SCARP - FORT CLEEK

LOCALITY W. of FORT NORMAN - JUNGLE RIFE - IMPERIAL - CRETACEOUS?

GRID AREA 95-C-NW PHOTO A12033-47

MEASURED BY HURSTON R. SCHREINER
P. DOYLE P. FERRILL T. CHAFFIN DATE JUNE 16-17-69
N. SCHULFELDS

PLOTTED BY R. SCHREINER + S. TODD DATE SEPT 29-69

SOURCE OF DATA TAPED SECTION

REMARKS

LITHOLOGY

	Shale		Shale Limestone
	Siltstone		Shale Dolomite
	Sandstone		Flint
	Limestone		Anhydrite
	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glaucconite
	Corp. Flecks		Coal or Coaly
	Pyrite		Micaceous
	Crinoidal		Algal or Strom
	Bitumen		Oil Stain
	Salt Casts		Bentonite

POROSITY

VUGGY	INTERGRAN
0	Fair
0 0	Fair
0 0 0	Good
0 0 0 0	Very Good

SAMPLES

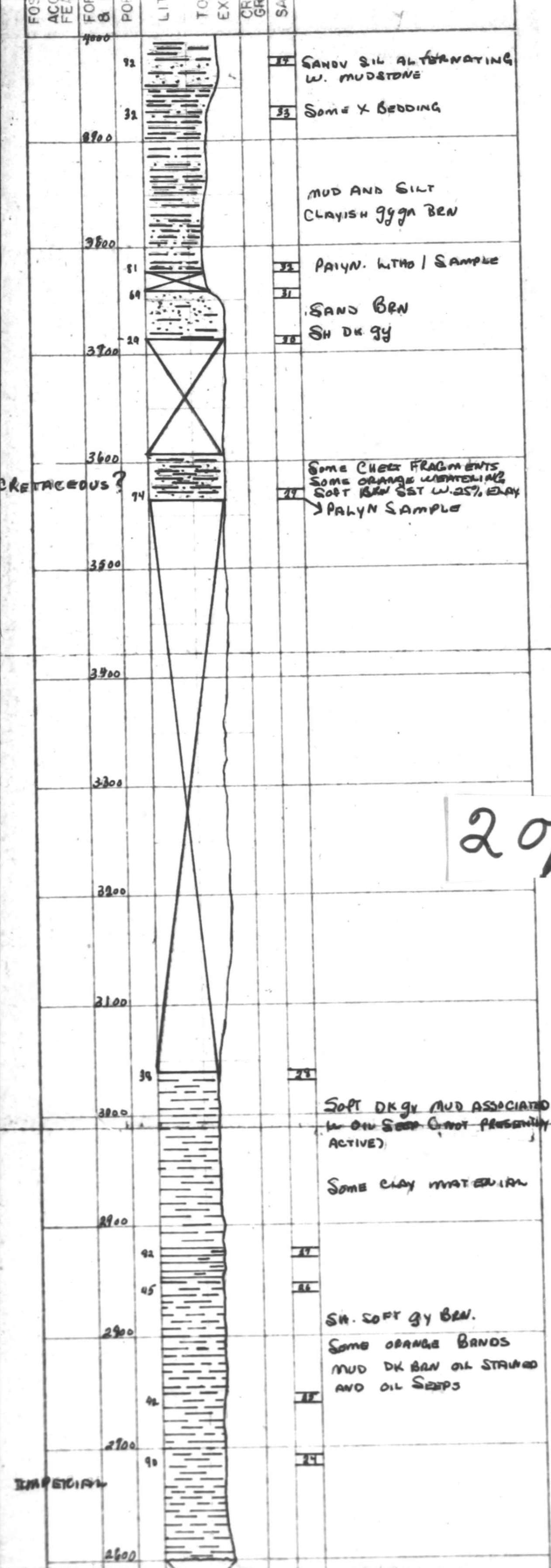
F	Fossil
L	Lithology
P	Porosity

CRYSTAL OR GRAIN SIZE

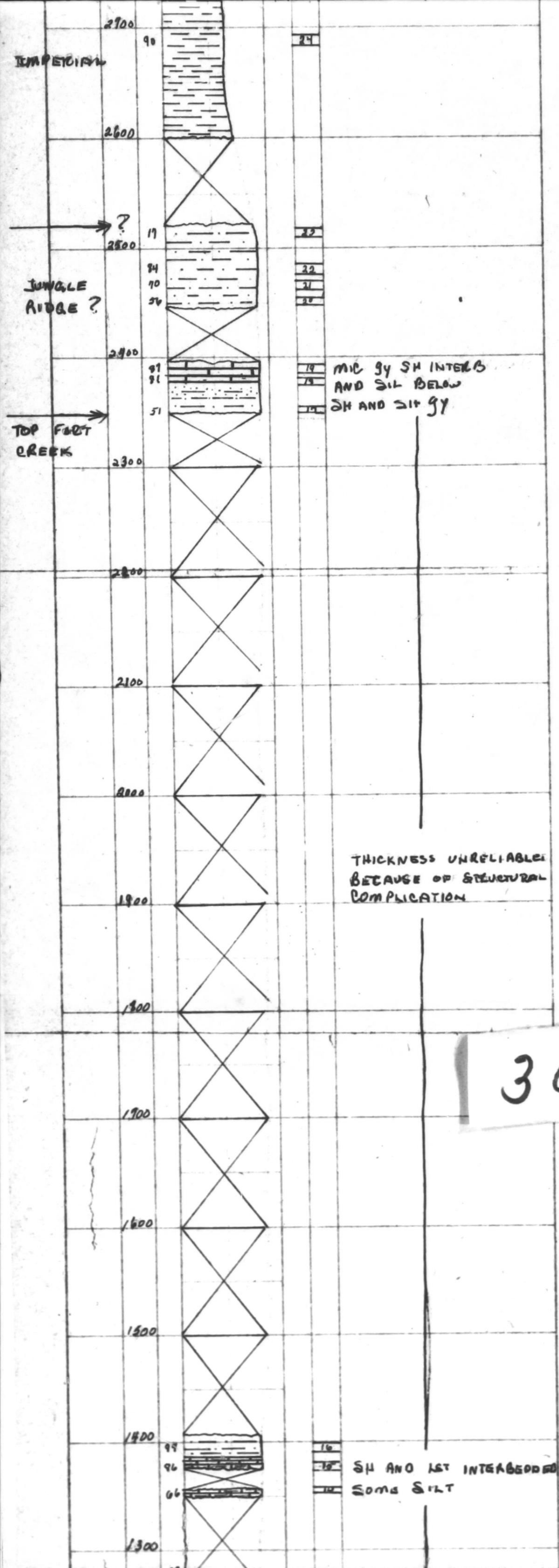
1	Cryptocrystalline
11	Microcrystalline
x	Fine Cryst. or Grain
xx	Medium Cryst. or Grain
xxx	Coarse Cryst. or Grain
4	Fine Fragments
44	Medium Fragments
444	Coarse Fragments

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	100	11				11	Gravelly sil. alternating w. mudstone
		11				11	Same x bedding
	100						

1 of



2 of



39

1400

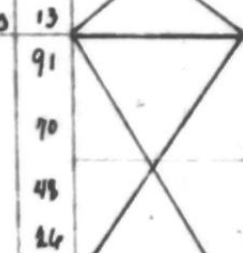


SH AND LT INTERBEDDED
SOME SILT

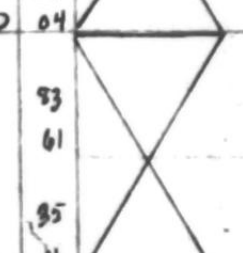
1300



1200



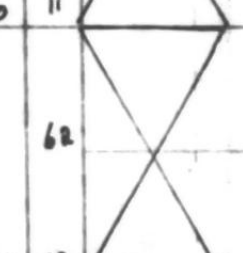
1100



1000



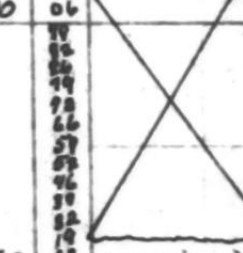
900



800



Top KEE Series?
TOP NARE
INDIAN ?



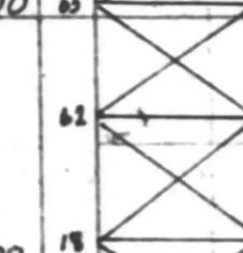
MIC DK gy Bk some
F& AND S

600

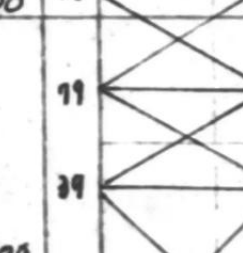


SH gy Bk Lmy Bt
Some SINT.

500



400

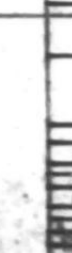


300



4 of 4

Top NAMANI ?



SPARITE BLK gy.

100



SAME AS BELOW, more
SH INTERBEDS 0-10% Vol.

0



MIC DK SH LAMINATED
AND X BEDDED SM SH BANDS

P Porosity

Very Good + + + +

CRYSTAL OR GRAIN SIZE

1. Cryptocrystalline

4.1 Microcrystalline

x Finely Cryst or Gran

XX Medium Cryst or Gran

xxx Coarse Cryst or Gran

a. Finey Fragment(s)

3.2. Medium Fragments

223 Coarse, Fragmental

FOSSILS ACCESSORY FEATURES	FORM TOP 8' FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	600						
	500	41 25 15 11				25 27 26	↑ MORE SILTY THAN BELOW
		90 79 72				25 24 23	
	400	45 40 25 05 01				22 21	
		93 81 69 61 55 49 31 24 17 11 05 04				20 19 18 17 16 15 14 13 12 11	SH BAN BLK SILICEOUS WEATHERING RUSTY IN PLACES
FORT CREEK	300	99 93 84 87 72 72				10 9 8 7 6 5	↓
	200						
		90					
	100	05					
HARE INDIAN ? TOP W. H. IN B. BXO		49 35 30 25 21 14				4 3 2 1	SH LIMY. POSSIBLY HARE INDIAN CASTANIA BEDS, INTERBEDDED W. SH. REEFORD 1ST

292

SECTION 005 010 A&B LAT 65° 02' N
 Lsd. Sec. Twp Rge M LONG 127° 30' W
 FORMATION NAHANNI-IMPERIAL AGE M. & U. DEVONIAN
 LOCALITY S. SIDE KATHRINE CREEK (A), TRIBUTARY (B)
 GRID AREA N.T.S. 96-E-SW PHOTO A 12602-209
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 17/69
 PLOTTED BY H.J. EVERS DATE AUG. 19/69
 SOURCE OF DATA SECTION

REMARKS 005010-A = TOP NAH. TO "RED MARKER" IN FT.
CREEK FM. 005010-B = "RED MARKER" IN SE TRI-
BUTARY, CONTINUED SECTION INTO IMPERIAL FM.
(SEE PICTURE)

LITHOLOGY

- | | |
|--|--|
|  Shale |  Shale Limestone |
|  Siltstone |  Shale Dolomite |
|  Sandstone |  Gneiss |
|  Limestone |  Anhydrite |
|  Calcareous Shale |  Conglomerate |
|  Dolomite |  Breccia |
|  Dolomitic Shale |  Covered |

ACCESSORIES

- | | |
|--|--|
|  Ironstone |  Glaucanite |
|  Carb. Flecks |  Coal or Coaly |
|  Pyrite |  Micaceous |
|  Crinoidal |  Algal or Strom |
|  Bitumen |  Oil Stain |
|  Salt Casts |  Bentonite |

POROSITY

- VUGGY INTERGRAN
- | | |
|---|-----------|
|  | Poor |
|  | Fair |
|  | Good |
|  | Very Good |

SAMPLES

- | | |
|---|-----------|
|  | Fossil |
|  | Lithology |
|  | Porosity |

CRYSTAL OR GRAIN SIZE

- | | |
|---|------------------------|
|  | Cryptocrystalline |
|  | Microcrystalline |
|  | Finely Cryst. or Gran. |
|  | Medium Cryst. or Gran. |
|  | Coarse Cryst. or Gran. |
|  | Finely Fragmental |
|  | Medium Fragmental |
|  | Coarsely Fragmental |

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

1 of

SECTION 005010 A&B LAT 65° 02' N
 Lsd. Sec. Twp Rge M LONG 127° 30' W
 FORMATION NAHANNI-IMPERIAL AGE M. & U. DEVONIAN
 LOCALITY S. SIDE KATHRINE CREEK (A), TRIBUTARY (B)
 GRID AREA N.T.S. 96-E-SW PHOTO A 12602-20g
 MEASURED BY EVERS & SCHULTHEIS DATE JUNE 17/69
 PLOTTED BY H.J. EVERS DATE AUG. 19/69
 SOURCE OF DATA SECTION

REMARKS 005010-A = TOP NAH. TO "RED MARKER" IN FT.
CREEK FM. 005010-B = "RED MARKER" IN SE TRI-
BUTARY, CONTINUED SECTION INTO IMPERIAL FM.
(SEE PICTURE)

LITHOLOGY

- | | |
|------------------|-----------------|
| Shale | Shale Limestone |
| Siltstone | Shale Dolomite |
| Sandstone | Crest |
| Limestone | Anhydrite |
| Calcareous Shale | Conglomerate |
| Dolomite | Breccia |
| Dolomitic Shale | Covered |

ACCESSORIES

- | | |
|--------------|----------------|
| Ironstone | Glauconite |
| Carb. Flecks | Coal or Coaly |
| Pyrite | Micaceous |
| Crinoidal | Algal or Strom |
| Bitumen | Oil stain |
| Salt Casts | Bentonite |

POROSITY

- VUGGY INTERGRAN
- Poor
- Fair
- Good
- Very Good

SAMPLES

- Fossil
- Lithology
- Porosity

CRYSTAL OR GRAIN SIZE

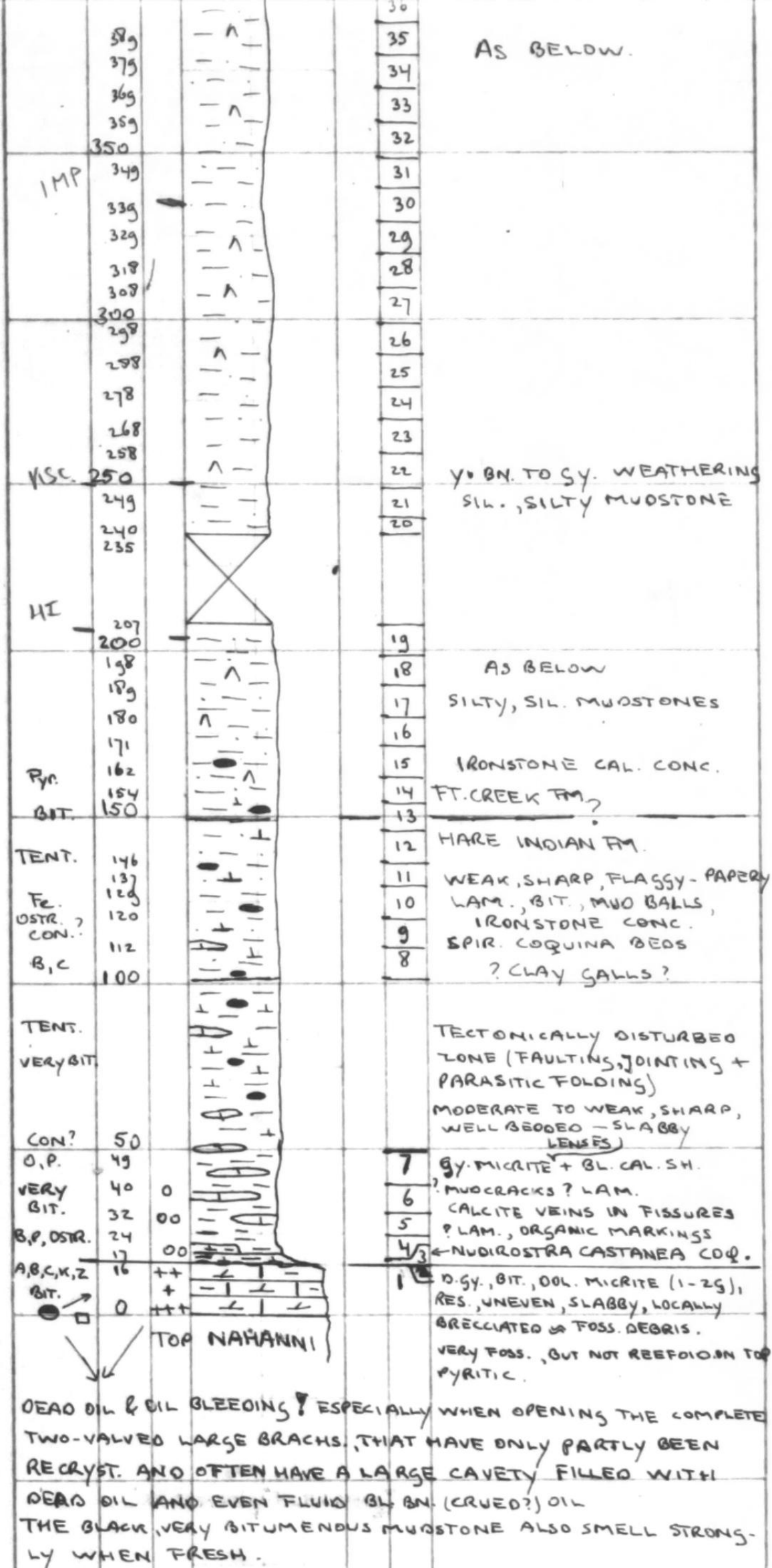
- Cryptocrystalline
- Microcrystalline
- Finely Cryst. or Gran.
- Medium Cryst. or Gran.
- Coarse Cryst. or Gran.
- Finely Fragmental
- Medium Fragmental
- Coarsely Fragmental

1 of

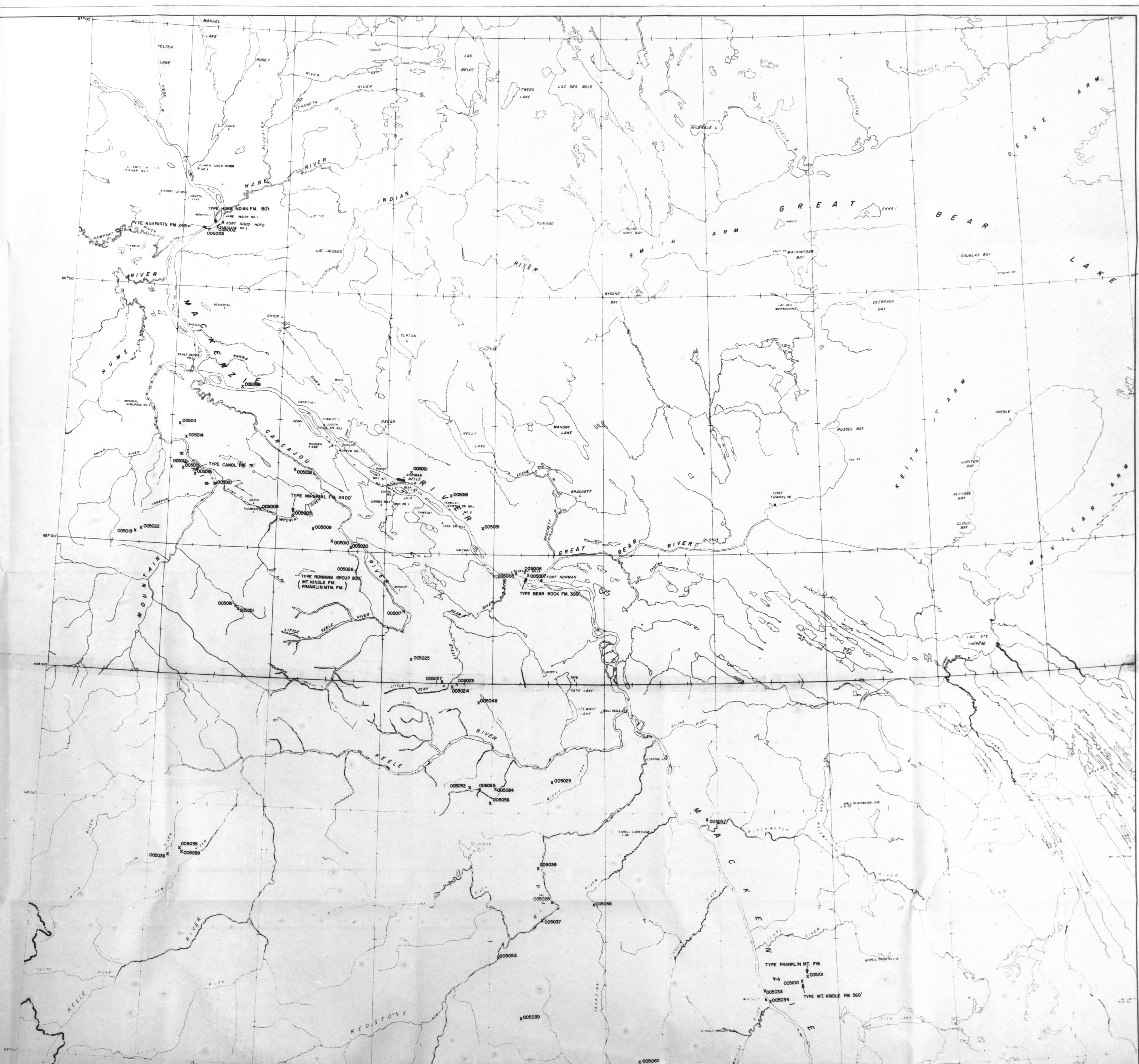
FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION

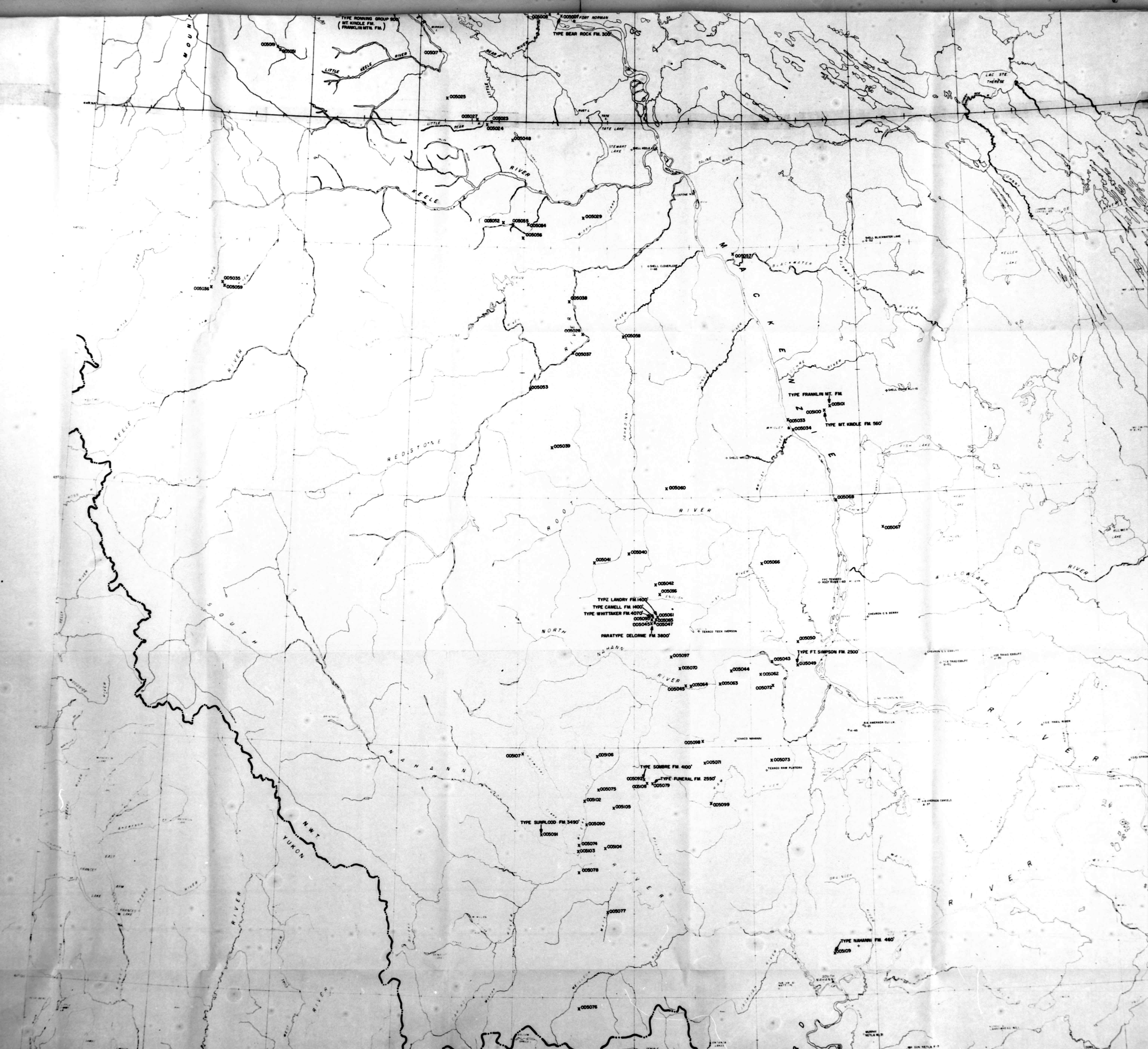
DEPTH (FEET)	UNIT	DESCRIPTION
700		
680		
670		
660		
650		
640	Carb.	
630		
620		
610		
600		
550		
500		
498		
485		
475		
464		
455		
450		
446		
437		
428		
419		
410		
400		
389		
379		
369		
359		
350		
349	IMP	
339		
329		
318		
308		
300		
298		
288		
278		
268		
258		
250	ISC.	
249		
240		
235		
207	HI	
200		
198		
189		
180		
171		
162	Ryn.	
154		
150	BIT.	
146	TENT.	
54		
53		
52		GN. GY. SILTY SS. & ARN. SILTST.
51		RES. TO MODERATE, SHARP, SLABBY BEDDING.
50		X-BEDED, LAM., CARBONACEOUS
49		IMPERIAL FM.
48		
47		FT. CREEK FM.
46		RED WEATHERING MARKER GEO; ? VERY BITUMENOUS BLACK SHALES "BURNED" (LIGHTENING?) AND "BAKED" TO L. GY. MORE RES. "COKE". SIL. MUONSTONES - NO FOSS. NO SED. STRUCT. OR BEDDING.
45		BL. SIL. MOD. SHALE / MUONSTONE
44		WEAK, SHARP, FLAGGY - PAPER
43		
42		
41		
40		
39		
38		
37		
36		
35		AS BELOW.
34		
33		
32		
31		
30		
29		
28		
27		
26		
25		
24		
23		
22		Y. BN. TO GY. WEATHERING SIL., SILTY MUONSTONE
21		
20		
19		AS BELOW
18		
17		SILTY, SIL. MUONSTONES
16		
15		IRONSTONE CAL. CONC.
14		FT. CREEK FM?
13		
12		HARE INDIAN FM.

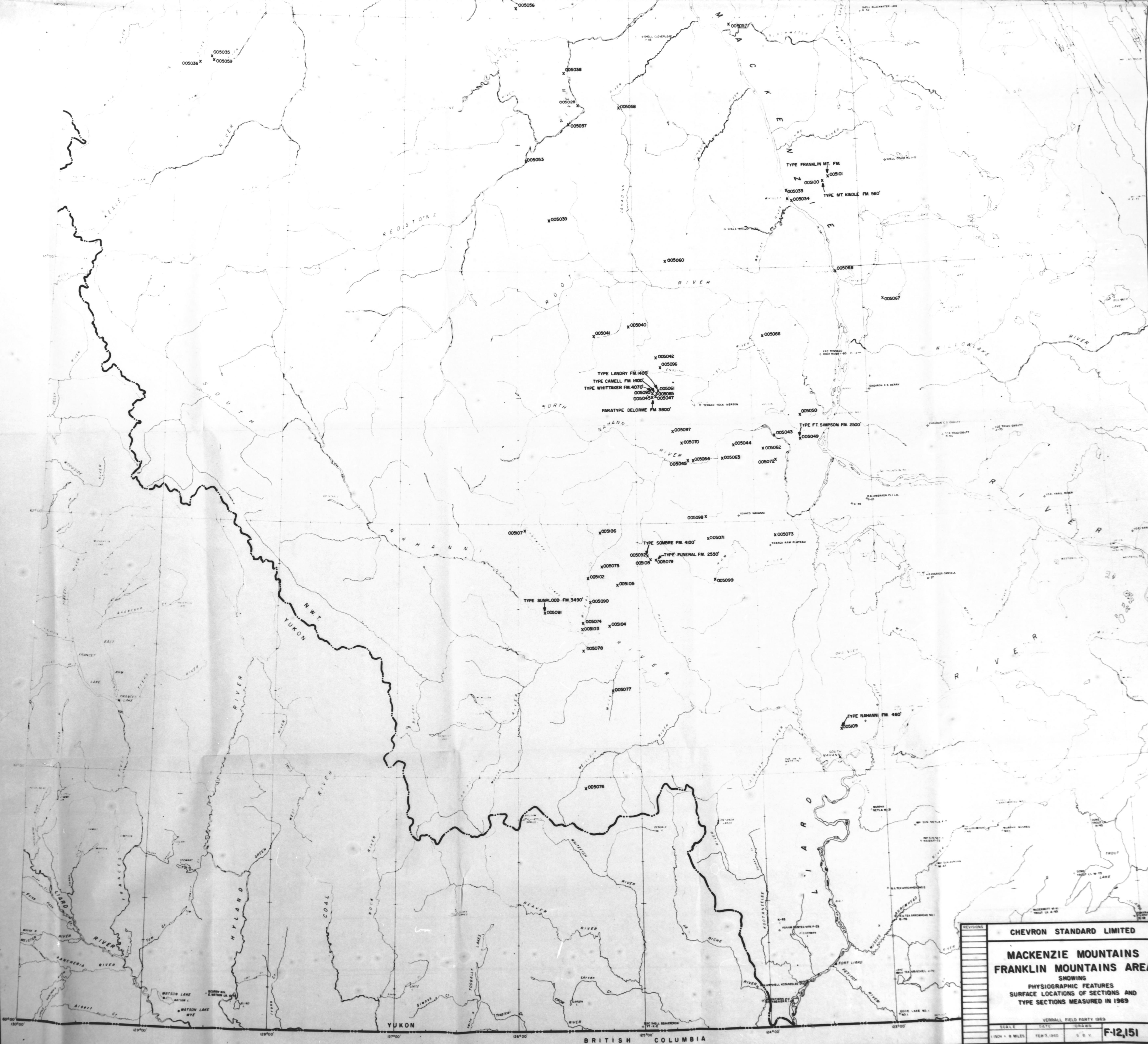
2 of



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CHEVRON STANDARD LIMITED			
MACKENZIE MOUNTAINS FRANKLIN MOUNTAINS AREA			
SHOWING PHYSIOGRAPHIC FEATURES SURFACE LOCATIONS OF SECTIONS AND TYPE SECTIONS MEASURED IN 1969			
VERNAL FIELD PARTY 1969			
SCALE	DATE	DRAWN	
1 INCH = 10 MILES	FEB. 1969	S. S. K.	F-12,151