

EXPLORATION PROGRESS REPORT

KEE SCARP AND HUME FORMATION

MACKENZIE MOUNTAIN FRONT

JULY 24 to AUGUST 5, 1969

45-1-6-~~71~~ 71

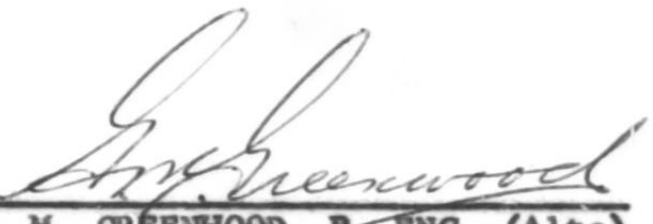
EXPLORATION PROGRESS REPORT

KEE SCARP AND HUME FORMATIONS

MACKENZIE MOUNTAIN FRONT

It covers work performed by Chevron Standard Limited during the period July 24 to August 5, 1969. (This report is submitted in support of application for work credits.)

Report prepared by:


G. M. GREENWOOD, P. ENG. (Alta)



ILLUSTRATIONS

PLATES

I - Index map - area of study 1" = 50 mi.

FIGURES

I - Norman Wells Area - Field sections measured by the Naylor Party 1968. 1:2,500,000

SECTIONS

LA-1968	KK-1968	KU-1968
LB	KJ	KV
LD	KL	KW
LE	KM	KX
LF	KN	KY
LG	KO	KZ NOTES
LH	KP	
LI	KR	
LJ	KS	
LK	KT	

EXPLORATION PROGRESS REPORT

KEE SCARP AND HUME FORMATIONS

MACKENZIE MOUNTAIN FRONT

Introduction

Using Hiller helicopter and float-equipped Beaver aircraft, a Chevron Standard Limited field party examined and sampled sections along a portion of the Mackenzie Mountain front and the Imperial Anticline. (See Plate I, Area 3). Field operations were carried out during the period July 23 to August 5, 1968.

The field crew consisted of:

D. Naylor	-	Party Chief
G. E. Tebbutt	-	Senior Geologist
D. Mason	-	Senior Geologist
K. Dahlman	-	Junior Geologist
C. M. James	-	Junior Geologist
D. R. Ojakangas	-	Training Assignment



Geology

The Field Party had two major objectives:

- (1) To collect samples for stratigraphic information from a series of sections ranging from the Landry to the top of the Kee Scarp Formation. A total of 14 sections were sampled at intervals of 5 stratigraphic feet. The Hare Indian Formation, which is poorly exposed in this area, presented some difficulties and parts of the formation were not sampled. While working in the area, the party measured and sampled the type section of the Hume Formation (Bassett, 1961), which is exposed on the Hume River (KO-68).
- (2) To sample in detail the Kee Scarp Formation for subsequent microfacies studies. Time did not permit extending the study area to the well known Ramparts of the Mackenzie River. Sections were measured only on the mountain front (18 sections) and in the Imperial Anticline (7 sections).

Section locations are shown on the accompanying map (see Fig I) and the strip logs are enclosed.

SECTION LA-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 49' W
 FORMATION KEE SCARP AGE MID. - DEVONIAN
 LOCALITY 1 1/2 MILES WEST OF POWELL CREEK
 GRID AREA 106 H SE PHOTO A12601-362
 MEASURED BY TEBBUTT & JAMES DATE AUG. 11 68
 PLOTTED BY JAMES DATE AUG. 15 68
 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
	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
							Estimated 20' to 6' upper contact at Kee Scarp Micrite with apparent grain

				Estimated 20' to 6' upper contact of Reef fold
S	320			Micrite with apparent grain support, lt. gy./med. bn. gy., resistant, uneven, massive bedding, branching stroms & small massive stroms
				Similar to above
	310			Similar to above
				Similar to above
	300			Similar to above.
S, C	290			Micrite with apparent grain support, lt. gy./med. dk. bn. gy., resistant, uneven, blocky bedding, branching stroms in calcarenite & massive stroms.
				Similar to above.
	280			Similar to above. Reefoid
				Similar to above.
	270			Micrite with apparent grain support, lt. gy./med. dk. bn. gy., resistant, uneven, blocky bedding, both nodular & branching stroms are common.
				Similar to above
	260			Similar to above
				Similar to above
	250			Similar to above
S, B, C Amphipora				Micrite with apparent grain support, lt. gy./med. gy., resistant, uneven, massive bedding, stroms common, as well as calcarenite.
Amphipora	240			Micrite with apparent grain support, lt. gy./med. gy., resistant, uneven, blocky bedding.
				Covered.
S, C. Amphipora	230			Micrite with apparent grain support, pelletoidal, lt. gy./med. gy., resistant, uneven, blocky bedding. Amphipora abundant Calcarenite & calcirudite
				Similar to above except Amphipora not so abundant.
S, C.	220			Micrite with apparent grain support - Sparrodite - Calcarenite + Calcirudite, lt. gy./med. gy., spar in matrix, resistant, uneven, blocky bedding.
				Similar to above except micrite has >>10% C.S. fraction.
S, C.	210			Micrite with apparent grain support, lt. gy./med. gy., resistant, uneven, blocky bedding.
S, C				Similar to above
S, C	200			Similar to above.
S, C				Similar to above except bedding is massive to blocky Reefoid.
S, C			3L	Similar to (200-205)

207

S, c	200				Similar to above.
S, c					Similar to above except bedding is massive to blocky Reefoid.
S, c	190			3L	Similar to (200-205)
S					Similar to (195-200)
	180				Similar to above.
S, K, B					Similar to above.
	170				Micrite with apparent grain support, lt. gy. / med. gy. nearly reefoid, resistant, uneven, massive bedding.
S, K, B					Similar to above.
S, K					Similar to above except brachs are not prevalent.
	160				
S, K					Similar to above
S					Similar to above except corals aren't prevalent.
	150				
S, K, B					Micrite with apparent grain support, lt. gy. / med. gy. resistant, uneven, massive bedding.
S, K, B					Similar to above.
	140				
S, K					Similar to above except brachs aren't prevalent.
S, K					Similar to above.
	130				
S, K					Micrite with apparent grain support, lt. gy. / med. gy. moderately resistant, uneven, blocky bedding. - Very abundant stroms.
S, K					Micrite with apparent grain support, lt. gy. / med. gy. resistant, uneven, massive bedding. - Very abundant corals
	120				
S, K					Micrite with >>10% cs. fraction, lt. gy. / med. gy., resistant, uneven, massive bedding.
S, K					Similar to above
	110				
S, K					Similar to above except micrite is present with apparent grain support.
S, K					Similar to above - definite coral & strom concentrations.
	100				
S, K, C					Micrite with >>10% cs. fraction, lt. gy. / med. gy., resistant, uneven, blocky bedding, few branching stroms, crinoids.
K, S					Micrite with >>10% cs. fraction, lt. gy. / med. gy., resistant, uneven, massive bedding. Coral concns, few stroms.
	90				
K					Micrite with >>10% cs. fraction - micrite with apparent grain support, lt. gy. / med. gy., resistant, uneven, massive bedding. Coral concns.
K					Similar to above
	80				
K					Similar to above
K					Micrite with >>10% cs. fraction. lt. gy. / med. gy., resistant, uneven, massive bedding. - Coral concns.
	70				
K					Similar to above except micrite also present with apparent grain support.
K					Similar to above.
	60				

39

SECTION LB-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 48' W
 FORMATION KEE SCARD AGE U-MID. DEVONIAN
 LOCALITY 1 MILE WEST OF POWELL CREEK
 GRID AREA 106 H SE PHOTO A12601-362
 MEASURED BY OTAKANGAS DATE
 PLOTTED BY DATE
 SOURCE OF DATA
 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

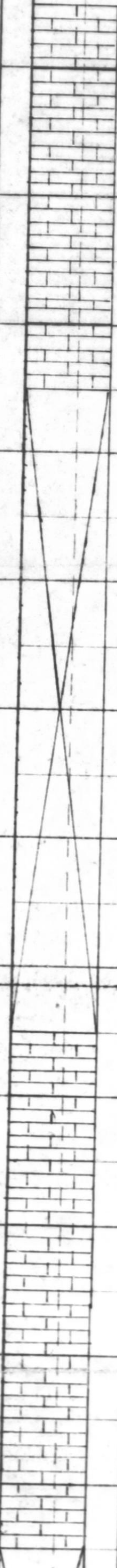
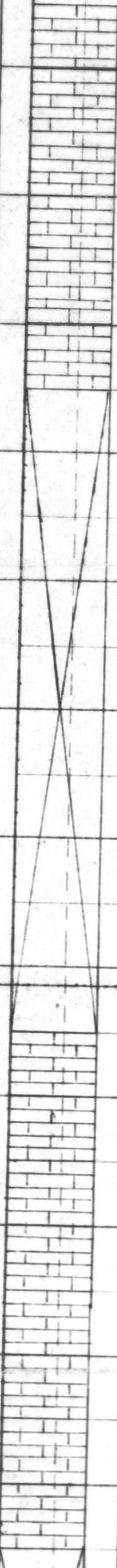
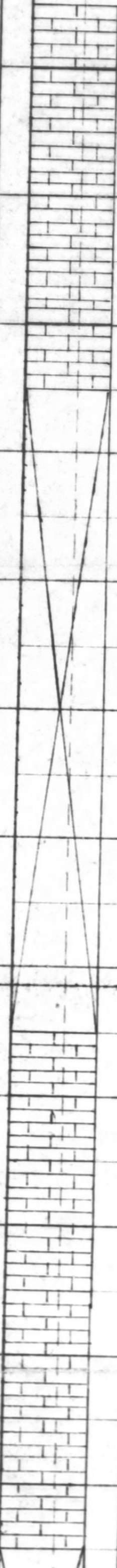
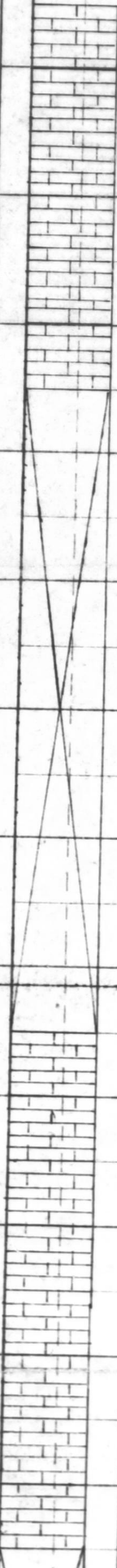
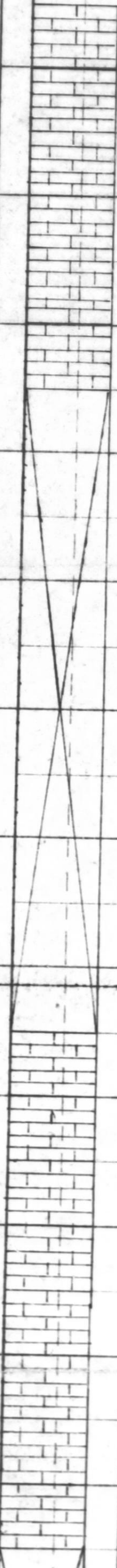
CRYSTAL OR GRAIN SIZE

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
			CONTACT NOT EVIDENT.				

1 of

S, C, B	175		1	Micrite with apparent grain support, lt. gy. resistant, uneven, massive bedding
K, B, C	170			Similar to above.
K, B, C				Similar to above
K, B, C	160			Similar to above
K, B, C				Similar to above
K, B, C	150			Similar to above.
S, C				
	140			
	130			
	120			Covered
	110			
	100			
S, C				Similar to above.
S, C	90			Similar to above
S Amphipora			2	Similar to above.
S Amphipora	80			Similar to above.
S Amphipora				Similar to above
S Amphipora	70			Similar to above
S Amphipora			3	Sparite, lt. gy. resistant, uneven, massive bedding.
S, C	60			Micrite with apparent grain support, lt. gy. resistant, uneven, massive bedding
				Similar to above.
	50			Covered

207

S, C					Similar to above
S Amphipora				2	Similar to above.
S Amphipora	80				Similar to above.
S Amphipora					Similar to above
S Amphipora	70			3	Sparite, lt. gy., resistant, uneven, massive bedding.
S, C	60				Acicrite with apparent grain support, lt. gy., resistant, uneven, massive bedding.
					Similar to above.
	50				
					Covered
	40				
S	30			4	Sparite, lt. gy., resistant, uneven, massive bedding.
S				5	Sparite + micrite with apparent grain support, lt. gy., resistant, uneven, massive to blocky bedding.
S	20			6	Micrite with apparent grain support, lt. gy., resistant, uneven, massive bedding.
S					Similar to above
S	10			7	Similar to above
S				8	Sparite, (lt. gy.) resistant, uneven, massive bedding.
	0				

393

SECTION LD-68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 27' W
 FORMATION KEE SCARD AGE U-MID. DEVONIAN
 LOCALITY N.W. END OF IMPERIAL ANTICLINE
 GRID AREA 106 H S.W. PHOTO A12758-50
 MEASURED BY TEBBUTI & JAMES DATE AUG. 2/68
 PLOTTED BY JAMES DATE AUG 9/68
 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 |

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	40						
							(Top only assumed)

1 of

o o o Coarsely Fragmental

2 of 2

SECTION LE-68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 28' W
 FORMATION K'EE SCARP AGE U-MID. DEVONIAN
 LOCALITY NORTH LIMB, WEST END OF IMPERIAL ANTICLINE
 GRID AREA 106 H. S.W. PHOTO A12758-50
 MEASURED BY TEBBUTT & JAMES DATE AUG. 2 1968
 PLOTTED BY JAMES DATE AUG. 9/68
 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

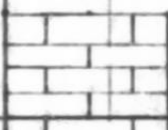
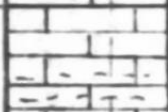
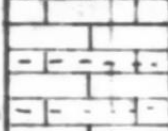
CRYSTAL OR GRAIN SIZE

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

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
		40						
	K.C	30				X- XX		Fine-med. grained calcarenite-micrite with apparent grain support- Buff stnd, lt. gy. - med. ln. gy., resistant uneven, blocky beds - with a few corals.
	C.K.					X- XX		Fine-med. grained calcarenite-micrite with apparent grain support- Buff stnd, lt. gy., med. ln. gy., resistant uneven, blocky beds
	?	20				X- XX		Fine-med. grained calcarenite micrite with apparent grain support. Buff stnd, lt. gy., med. ln. gy. fossils present but unrecognizable - resistant, uneven, blocky beds - 30-40% clay - (clay bands)
	K						2L	Micrite with apparent grain support. Buff stnd, lt. gy., med. ln. gy., resistant, uneven, massive blocky bedding - (clay streaks) - 30% clay
	K							Micrite with apparent grain support. Buff stnd, lt. gy., med. ln. gy., resistant, uneven, massive to blocky beds. (clay streaks) - concentrations of large "Cladopora" & calcarenitic mixture 20-30% clay
	S,B,K	10					1L	Micrite with > 10% coarse fraction. Buff stnd, lt. gy., med. ln. gy., resistant, uneven, blocky beds. (in some cases massive)
	S,B,K							Micrite with > 10% coarse fraction Buff stnd, lt. gy., med. ln. gy., resistant, uneven, blocky beds. (few encrusting & branching Stroms, fine debris)
		0						

↑ Kee Scarp
 ↓
 ? Hare Indian

SECTION LF-68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 29' W
 FORMATION KEE SCARP AGE U-MID. DEVONIAN
 LOCALITY NORTH LIMB, WEST END OF IMPERIAL ANTICLINE
 GRID AREA 106 H SW PHOTO A12758-50
 MEASURED BY TEBBUTT & JAMES DATE AUG. 2/68
 PLOTTED BY JAMES DATE AUG. 9/68
 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

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

1 of

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]

2 of 2

SECTION LG-68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 25' W
 FORMATION KEE SCARP AGE U-1410. DEVONIAN
 LOCALITY NORTH LIMB, WEST END OF IMPERIAL ANTICLINE
 GRID AREA 106H. SW PHOTO A12758-50
 MEASURED BY MASON E DAHLMAN DATE AUG 2 / 68
 PLOTTED BY JAMES DATE AUG. 11 / 68
 SOURCE OF DATA SECTION
 REMARKS SECTION LOCATED WEST OF SECTION LI-68.

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

Coarsely Fragmental

2 of 2

SECTION LH-68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 23' W
 FORMATION KEE SCARP AGE U.-MID. DEVONIAN
 LOCALITY NORTH SIDE, WEST END, IMPERIAL ANTICLINE
 GRID AREA 106 H SW PHOTO A12758-50.
 MEASURED BY MASON & DAHLMAN DATE AUG 2 / 68
 PLOTTED BY JAMES DATE AUG 12 / 68
 SOURCE OF DATA SECTION
 REMARKS MOST EASTERLY SECTION

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
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

o Finely Fragmental
 oo Medium Fragmental
 ooo Coarsely Fragmental

Kee Scarp.

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	90						
	80						
Stroms							Micrite with apparent grain support - abundant stroms - uneven - nodular - slabby bedding
C Stroms.	70						Micrite with 710% coarse fraction - micrite with apparent grain support, resistant, uneven, massive beds.
Stroms							
	60						
Stroms C							Micrite with 710% coarse fraction - micrite with apparent grain support, resistant, uneven, massive beds.
	50						
Stroms C							Micrite with 710% coarse fraction, resistant, uneven, massive beds.
Stroms C							Micrite with apparent grain support, resistant, uneven, massive beds.
Stroms C	40						Micrite with apparent grain support, resistant, uneven, massive to blocky bedding. Gravel of stick stroms with mud matrix - common. Chnoid. Distichs with pentagonal axial canals & 4" cabbage stroms.
Stroms							Micrite with 710% coarse fraction, resistant, uneven, blocky bedding. Gravel of stick stroms with mud matrix - common.
	30						
Stroms							Micrite with apparent grain support - micrite with 710% coarse fraction, resistant, uneven, slabby bedding.
Stroms							Micrite with apparent grain support, + sparite, resistant, uneven, massive bedding. Abundant stick stroms, possibly adjoined. Spar-cemented zone at top.
	20						
C? Stroms							Micrite with apparent grain support, lt. gy. resistant, uneven, massive bedding.
Stroms, B., C.							Micrite with apparent grain support, lt. gy. moderately resistant, uneven, slabby bedding - broken stick stroms & occ. 4" cabbage stroms.
	10						
C, small Stroms.							Micrite with 210% coarse fraction, lt. gy. resistant, uneven, massive bedding.
C, K							Micrite with 210% coarse fraction, lt. gy. moderately resistant, uneven character, slabby bedding.
	0						

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
	70						
	60						(Possibly 5-10' or more not exposed on dip slope)
B, C Stroms Cladopora	58						Micrite with <10% cs. fraction H. gy., resistant, uneven, massive beds.
B, C Stroms Cladopora							Micrite with apparent grain support, H. gy., resistant, uneven massive beds.
B, C. Stroms, Cladopora	50						Micrite with apparent grain support, H. gy., resistant, uneven, massive beds.
Cladopora Stroms							Micrite with apparent grain support. Micrite with <10% cs. fraction H. gy., resistant, uneven, massive to slabby beds.
C, B Cladopora	40						Micrite with <10% cs. fraction H. gy., much fossil debris. resistant, uneven, massive bedding.
K, Cladopora Stroms B, C.							Micrite with <10% cs. fraction resistant, uneven, massive bedding.
K, Cladopora Stroms	30						Micrite with <10% cs. fraction H. gy., resistant, uneven, massive bedding.
B, K, C Amphipora Stroms							Micrite with <10% cs. fraction fossils scarce, resistant, uneven - massive - slabby bedding.
B, K, C Stroms	20						Micrite with <10% cs. fraction. resistant, uneven, massive bedding.
B, K, C Amphipora							Micrite with apparent grain support + micrite with <10% cs. fraction, H. gy., resistant uneven, massive bedding. Cladopora? (Poorly preserved internal structures)
K, B Cladopora	10						Micrite with >10% cs. fraction + micrite with <10% cs. fraction H. gy., resistant, uneven, massive bedding.
B, K. Cladopora							Micrite with <10% cs. fraction, H. gy., resistant, uneven, massive bedding.
	0						

Kee Scarp

SECTION LJ- 68 LAT 65° 23' N
 Lsd. Sec. Twp Rge M LONG 129° 26' W
 FORMATION KEE SCARP AGE U-MID-DEVONIAN
 LOCALITY NLMB, WEST END OF IMPERIAL ANTICLINE
 GRID AREA 106 H SW PHOTO A12758-50
 MEASURED BY OTAKANGAS - NAYLOR DATE AUG. 2/68
 PLOTTED BY JAMES. DATE AUG. 12/68
 SOURCE OF DATA SECTION.
 REMARKS SECTION LOCATED 1 MILE WEST OF
LI.

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

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

1 of

?

Kee Scarp

Have Indian

FOSSILS ACCESSORY FEATURES	FORM. TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	80						Top of dip slope (Doubtful if any Kee Scarp beyond)
Stroms	15						Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding.
Stroms, Cladopora	70						Micrite with 710% cs. fraction lt. gy., resistant, uneven massive bedding.
Stroms	60					2	Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding, upper beds have banded Stroms.
Stroms	50						Micrite with 710% cs. fraction lt. gy., Stroms, resistant, uneven, massive bedding. Some bands of micrite.
B, Stroms Cladopora	40						Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding - Stroms in thin layers.
B, Stroms Cladopora			Stroms				Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding - Stroms prevalent - 2" - 4" in size.
B, Stroms Cladopora			Stroms				Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding, Stroms very prevalent - 2" - 4" in size.
B, Stroms Cladopora			Stroms				Micrite with 710% cs. fraction lt. gy., resistant, uneven, massive bedding.
C, Stroms, Amphipora Cladopora	30						Micrite with apparent grain support, lt. gy., resistant, uneven, massive to slabby bedding.
C, Stroms, Amphipora Cladopora	20		Amphipora				Micrite with apparent grain support - micrite with <10% cs. fraction, lt. gy., resistant, uneven, massive bedding. - Cladopora in separate beds.
C, Amphipora						1	Micrite with apparent grain support - micrite with 210% cs. fraction, fossil frags abundant - lt. gy., resistant, uneven, massive to blocky bedding.
B, C.							Micrite with <10% cs. fraction lt. gy., resistant, uneven, massive bedding.
B, C Cladopora	10						Micrite with <10% cs. fraction - lt. gy., resistant, uneven, massive bedding.
B, C Cladopora Stroms	0						Micrite with <10% - cs. fraction - micrite with apparent grain support, blk, weak, uneven, blocky bedding. - 20% shale

SECTION LK-68 LAT 65° 23' N
Lsd. Sec. Twp Rge M LONG 129° 36' W
FORMATION HARE INDIAN AGE MID-DEVONIAN
LOCALITY WEST END OF IMPERIAL ANTICLINE
GRID AREA 106 H SW PHOTO A12758-50
MEASURED BY NAYLOR & MASON DATE AUG. 21/68
PLOTTED BY JAMES DATE AUG. 12/68
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 |
| 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

1 of

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

	Calcareous Shale		Conglomerate
	Dolomite		Breccia
	Dolomitic Shale		Covered

ACCESSORIES

	Ironstone		Glauconite
C	Carb. Flecks		Coal or Coaly
	Pyrite		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

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	40						
	30						
B, K							
K, B, C.	20						
K, B Cladophora	10						
B	0						

End of Outcrop.

Micrite with <10% cs. fraction moderately resistant, nodular, slabby bedding.

Micrite with <10% cs. fraction moderately resistant, nodular, slabby bedding.

2. Micrite with <10% cs. fraction + bk. shales. br. gy. - moderately resistant, nodular, slabby bedding.

Micrite with <10% cs. fraction + bk. shales, br. gy., moderately resistant, nodular, slabby bedding.

1. Micrite with <10% cs. fraction br. gy., moderately resistant, nodular, slabby beds.

2 of 2

SECTION KK-68 LAT 65°17' N
 Lsd. Sec. Twp Rge M LONG 128°54' W
 FORMATION HARE INDIAN-KEESCARPAGE MID. DEVONIAN
 LOCALITY 2nd Creek West of 'POWELL CREEK'
 GRID AREA 106 H/SE. PHOTO A12601-362.
 MEASURED BY TEBBUTT & JAMES DATE JULY 26/68
 PLOTTED BY JAMES DATE AUG 13/68
 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

			138	similar to above except that corals are not noticeably present.
S Amphipora	700		137	Similar to above except that brachiopods are not noticeably present.
Amphipora B			136	Micrite with apparent grain support, med. gy. / med. bn., resistant, uneven, massive bedding.
Amphipora B	690		135	Micrite with 70% cs. fraction Pellet facies, med. gy. / med. bn., resistant, uneven, massive bedding.
S Amphipora			134	Micrite with > 10% cs. fraction & micrite with < 10% cs. fraction. Pellet facies, med. gy. / med. bn., resistant, uneven, massive bedding.
	680		133	Similar to above.
S. Amphipora			132	Micrite with apparent grain support, med. gy. / med. bn., resistant, uneven, massive to blocky bedding. local concentrations of Stroms & Amphipora
S Amphipora	670		131	Micrite with apparent grain support, med. gy. / med. bn., resistant, uneven, massive bedding. - large Stroms evident.
S. Amphipora			130	Micrite with apparent grain support, med. gy. / med. bn., resistant, uneven, massive bedding.
	660		129	Similar to above except bedding is both massive & blocky.
Amphipora B			128	Micrite with apparent grain support, Buff. / med. gy. bn., resistant, sharp, slabby bedding.
S	650		127	Micrite with apparent grain support, lt. gy. / med. gy. bn., resistant, uneven, blocky bedding.
S, B Amphipora			126	Micrite with apparent grain support, lt. gy. / med. gy. bn., resistant, uneven, massive to slabby beds.
S, B Amphipora	640		125	Similar to above.
S, B. Amphipora			124	Similar to above.
B Amphipora	630		123	Similar to above except Stroms aren't prevalent, and beds are massive.
Stroms Amphipora			122	Similar to above except that Stroms are prevalent whereas brachs are not.
Stroms	620		121	Similar to above, except that Amphipora are not present.
Stroms Amphipora			120	Similar to above.
stroms Amphipora	610		119	Similar to above.
S Amphipora			118	Similar to above except that bedding is both massive & blocky.
S Amphipora	600		117	Similar to above.
Amphipora B.			116	Micrite with apparent grain support, med. bn., resistant, uneven, massive to blocky bedding.
Amphipora B	590		115	Similar to above.
Amphipora B			114	Similar to above except that beds are solely blocky.
Amphipora	580		113	Sparrudite, med. bn., resistant, uneven, slabby to platy bedding. Sparry Cement in Amphipora
Amphipora			112	Micrite with apparent grain support, dk. bn., resistant, uneven, slabby to platy bedding.
Amphipora S	570		111	Micrite with apparent grain support, dk. bn., resistant, uneven, massive type of bedding.
Amphipora			110	Micrite with > 10% cs. fraction med. gy. / med. bn. gy., resistant uneven, blocky bedding.

Amphipora			112	Micrite with apparent grain support, dk. bn., resistant, uneven, slabby to platy bedding.
Amphipora S	570		111	Micrite with apparent grain support, dk. bn., resistant, uneven, massive type of bedding.
Amphipora			110	Micrite with >10% cs. fraction med. gy. / med. bn. gy., resistant, uneven, blocky bedding.
Amphipora S	560		109	Similar to above except that stroms are also present.
Amphipora			108	Micrite with <10% cs. fraction, med. gy. / med. bn. gy., resistant, uneven, blocky.
Amphipora			107	Similar to above
	550			
Amphipora			106	Similar to above
Amphipora			105	Similar to above
	540			
S, Amphipora			104	Similar to above except stroms are also present.
Amphipora			103	Micrite with apparent grain support, med. gy. / med. bn. gy., resistant, uneven, blocky bedding.
	530			
Amphipora			102	Similar to above.
Amphipora			101	Micrite with >10% cs. fraction, med. gy. / med. bn. gy., resistant, uneven, blocky bedding.
	520			
Amphipora			100	Similar to above.
Amphipora			99	Similar to above, except bedding is sharp.
	510			
S			98	Micrite with apparent grain support, med. gy. / med. bn. gy., resistant, sharp, blocky bedding.
S.			97	Similar to above
	500			
S			96	Similar to above except bedding is uneven.
S			95	Similar to above except bedding is uneven.
	490			
S			94	Similar to above except bedding is uneven.
S			93	Similar to above except that bedding is massive and uneven.
	480			
S			92	Micrite with >10% cs. fraction, med. gy. / med. bn. gy., resistant, uneven, massive bedding.
S Amphipora			91	Similar to above except micrite is present with <10% cs. fraction.
	470			
Amphipora			90	Micrite with <10% cs. fraction, med. gy. / dk. gy. bn., resistant, uneven, blocky bedding.
Amphipora			89	Similar to above.
	460			
S Amphipora			88	Micrite with <10% cs. fraction, med. gy. / dk. gy. bn., resistant, sharp, blocky bedding.
Amphipora			87	Similar to above
	450			
S Amphipora			86	Micrite with <10% cs. fraction, med. gy. / dk. gy. bn., resistant, sharp, blocky bedding. - shale break at 447-2.
Amphipora			85	Similar to above, - no shale break.
	440			

2.

SECTION KK-68 LAT 65° 17' N
Lsd. Sec. Twp Rge M LONG 128° 54' W
FORMATION HARE INDIAN - KEE SCARPAGE MID DEVONIAN
LOCALITY 2nd CREEK WEST OF 'POWELL CREEK'
GRID AREA 106 H/SE PHOTO A12601-362
MEASURED BY TEBBUTT & JAMES DATE JULY 26/68
PLOTTED BY JAMES DATE AUG 13/68
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 | Alga. 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 |

1 of

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

FOS	ACC FEA	FOR B	POR	LITH	TOP	EXP	CRY GRA	SAM	
		440							
	0?							84	Micrite with <10% cs. fraction, med. gy. / dk. gy. bn., resistant, uneven, blocky bedding.
	5							83	Micrite with >10% cs. fraction, less than 25% dolomite, med. gy. / med. bn., resistant, uneven, blocky bedding.
		430							
	5							82	Similar to above except no dolomite.
	5							81	Similar to above except no dolomite.
		420							
	5							80	Similar to above except no dolomite.
								79	Similar to above except no dolomite - and micrite with <10% cs. fraction is also present.
	5							78	Similar to above (410'-415')
	5							77	Micrite with <10% cs. fraction & micrite with >10% cs. fraction, med. gy. bn. / dk. bn., moderately resistant, uneven, blocky bedding.
	B, 5 Amphipora	400							
	5							76	Micrite with apparent grain support, med. gy. / med. bn., resistant, uneven, massive bedding. (cabbages & columnar stroms in sucrose matrix)
	5							75	Micrite with >10% cs. fraction, med. gy. / med. bn., weakly resistant, uneven, slabby bedding. 25% - 75% dolomite - nodular stroms - sucrose
		380							
	Amphipora							74	Micrite with <10% cs. fraction & 25% dolomite, H. gy. / med. bn., resistant, uneven, massive to blocky bedding.
	Amphipora							73	Similar to above.
		380							
	Amphipora							72	Micrite with >10% cs. fraction, <25% dolomite, H. gy. / med. bn., resistant, uneven, slabby bedding.
								71	Micrite with <10% cs. fraction, <25% dolomite, H. gy. / med. bn., resistant, uneven, slabby bedding, disseminated dolomite x'tals.
		370							
								70	Similar to above except no dolomite.
	Amphipora							69	Micrite with >10% cs. fraction, H. gy. / med. bn., resistant, uneven, blocky - slabby bedding.
		360							
	5 Amphipora							68	Micrite with apparent grain support, pelletoidal, H. gy. / med. bn., resistant, uneven, blocky to slabby bedding.
	Amphipora							67	Micrite with >10% cs. fraction, pelletoidal, H. gy. / med. bn., resistant, uneven, slabby bedding.
		350							
								66	Micrite with >10% cs. fraction, pelletoidal, H. gy. / med. bn., weakly resistant, sharp, slabby bedding, stylolites present.
	Amphipora							65	Micrite with >10% cs. fraction, micrite with <10% cs. fraction, pelletoidal, H. gy. / med. bn., resistant, uneven, blocky to slabby bedding.
		340							
								64	Micrite with >10% - <10% cs. fraction, pelletoidal, H. gy. / med. bn., resistant, sharp, blocky bedding.
								63	Micrite with >10% cs. fraction, pelletoidal, H. gy. / med. bn., resistant, sharp, massive to blocky bedding.
		330							
								62	Similar to above.
								61	Similar to above.
		320							
	K, O							60	Similar to above except that this is more fossiliferous.
								59	Micrite with <10% cs. fraction, H. gy. / dk. bn., resistant, sharp, massive to blocky bedding.
		310							

207

K, O	320		60	Similar to above except that this is more fossiliferous
			59	Micrite with < 10% cs. fraction lt. gy./dk. bn., resistant, sharp, massive to blocky bedding.
	310		58	Micrite with apparent grain support, pelletoidal, lt. gy./med. bn., resistant, sharp, massive to blocky bedding
				covered
S, K	300			Micrite with apparent grain support, pelletoidal, lt. gy., resistant, uneven, massive bedding.
			57	Similar to above, except massive & blocky bedding occur.
	290			Micrite with apparent grain support, lt. gy., resistant, uneven, blocky bedding.
K			56	
S, B			55	Similar to above except that bedding is massive - branching stroms - few brachs.
	280			Micrite with < 10%, lt. gy., resistant, uneven, massive bedding
K, C			54	
K ?			53	Similar to above except that bedding is massive to blocky.
	270			Similar to (270-275')
K, C			52	
			51	Similar to (270-275') except bedding is sharp.
Base of yellow-streaked main limestone unit.				
K	260		50	Micrite with < 10% cs. fraction, med. gy., moderately resistant, sharp, blocky bedding.
K				Micrite with < 10% cs. fraction, med. gy., moderately resistant, uneven, slabby bedding.
	250			Similar to (250' - 255')
			49	Similar to (250' - 255') except that color is lt. gy.
	240			
S			48	Micrite with < 10% cs. fraction, lt. gy., resistant, uneven, massive bedding, spar is minor constituent.
S			47	Micrite with apparent grain support, lt. gy., resistant, uneven, massive bedding - shale breaks common
	230		46	Lamellar stroms, cs. spar-filled vugs, bryozoan common
K			44	Micrite with apparent grain support, resistant, uneven, massive-slabby bedding. - Shale breaks common.
	220			
K, B			43	Micrite with > 10% cs. fraction. Shale breaks common, moderately resistant, uneven bedding.
K, B.			42	Similar to (215-220) Bedding flaggy - few encrusting corals.
	210			
K, B			41	Micrite with > 10% cs. fraction, moderately resistant, uneven, platy bedding. Shale breaks are common. (Bituminous - finger corals common)
K, C			40	Micrite with < 10% cs. fraction med. gy., Shale breaks common, moderately resistant, uneven, platy bedding.
B				
B, K	200		39	Micrite with < 10% cs. fraction, med. gy., argillaceous, weakly resistant, sharp, papery bedding.
			38	Similar to (195-200) papery limestone.
	190			
B.			37	Micrite with < 10% cs. fraction - micrite with apparent grain support. Buffgy., argillaceous, weakly resistant, uneven, slabby bedding (rubby).
C, B			36	Micrite with < 10% cs. fraction, interbedded shales common, moderately resistant, sharp, slabby bedding, bituminous.
	180			Micrite with > 10% cs. fraction.

B.				31	Micrite with apparent support. Buff qy., argillaceous, weakly resistant, uneven, slabby bedding (rubbly).
C, B				36	Micrite with < 10% cs. fraction, interbedded shales common, moderately resistant, sharp, slabby bedding, bituminous.
B, C.	180			35	Micrite with > 10% cs. fraction, med. qy., resistant, sharp, slabby bedding, bituminous.
B.				34	Micrite with > 10% cs. fraction, med. qy., bituminous, argillaceous, moderately resistant, sharp, slabby bedding.
K	170			33	Micrite with apparent grain support, med. qy., bituminous, argillaceous, weakly resistant, uneven, slabby bedding. (Spaghetti-like mass of fringed corals in black bituminous mx. ~5'-6' along strike 6" thick)
K				32	Micrite with > 10% cs. fraction, bituminous, argillaceous, resistant, sharp, blocky bedding.
S, K	160			31	Micrite with apparent grain support, bituminous, argillaceous, uneven, resistant, blocky to slabby bedding.
S.				30	Micrite with apparent grain support, bituminous, argillaceous, resistant, nodular, massive bedding.
S	150			29	Micrite with apparent grain support, bituminous, argillaceous, resistant, nodular, slabby bedding.
K				28	Micrite with apparent grain support, argillaceous, resistant, nodular, slabby bedding (rubbly).
	140			27	Micrite with < 10% cs. fraction, argillaceous, resistant, sharp, blocky-slabby bedding.
				26	Similar to (135'-140')
	130			25	Micrite with > 10% cs. fraction, resistant, uneven, massive blocky bedding.
S, B				24	Micrite with > 10% cs. fraction, resistant, uneven, massive bedding.
	120			23	Micrite with apparent grain support, lt. qy./lt. bn., resistant, uneven, massive bedding.
S, B				22	Micrite with > 10% cs. fraction, lt. qy./lt. bn., resistant, uneven, massive bedding - abundant Stroms.
S, B	110			21	Micrite with < 10% cs. fraction, Buff/med. qy., argillaceous, moderately resistant, sharp, slabby bedding - shale partings, few small Stroms, scattered brachs. Covered
K	100			20	Micrite with < 10% cs. fraction, 1st. - 20% buff qy./med. qy., bituminous, argillaceous, moderately resistant, uneven, blocky-platy bedding.
K				19	Similar to (95'-100') 1st. 5-70%
	90			18	Similar to (95'-100') shale - 80% - slabby to platy bedding.
K				17	Similar to (95'-100') Bedding is only slabby.
K, B.	80			16	Micrite with > 10% cs. fraction, 1st. 90%, argillaceous, resistant, uneven, massive bedding.
K Alveolites	70			15	Similar to (75'-80') No brachs are evident. corals very common - cylindrical etc.
				14	Micrite with < 10% cs. fraction, Bn. qy./med. qy., 1st. 75%, bituminous, argillaceous, resistant, uneven, blocky to flaggy bedding.
	60			13	Similar to 65-70 only 1st. now 90+%.
				12	Micrite with < 10% cs. fraction, 1st. 80%, Bn. qy./med. qy., bituminous, argillaceous, resistant, uneven - slabby to flaggy bedding.
B, K	50			11	Micrite with < 10% cs. fraction, 1st. 60%, Bn. qy./med. qy., bituminous, argillaceous, moderately resistant, nodular-uneven, blocky bedding. boudinage structures common. Slump common.

Base of main cliff-forming limestone.

+ of 4

SECTION KK-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 59' W
 FORMATION (HARE-INDIAN)-(KEE SCARP) AGE MID-DEVONIAN
 LOCALITY 2nd CREEK WEST OF 'POWELL CREEK'
 GRID AREA 106 H/SE PHOTO A12601-362
 MEASURED BY TEBBUTT & JAMES DATE JULY 26/68
 PLOTTED BY JAMES DATE AUG 14/68
 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

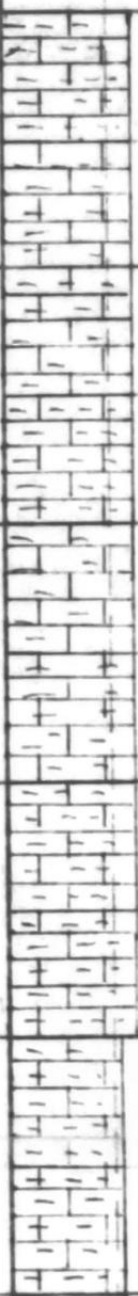
CRYSTAL OR GRAIN SIZE

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

- | | |
|-----|------------------------|
| 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
	50						
K, B				10	Micrite with <10% cs. fraction 1st ~ 50%, Bn. gy. / med. gy., bituminous, argillaceous moderately resistant, nodular - uneven, blocky bedding, boudinage - slump structures		
K, B	40			9	Similar to above except 1st ~ 60% and bedding blocky to slabby		
B, K				8	Similar to above except 1st ~ 70% - no visible bituminous material.		
				7	Similar to above - (40-45')		
B.	30			6	Micrite with <10% cs. fraction Bn. gy. / med. gy., bituminous, argillaceous, moderately resistant, nodular - uneven, slabby bedding - boudinage, + slump structures.		
B	20			5	Similar to above except, bedding slabby - blocky, & nodular only.		
B.				4	Similar to above - bedding slabby - platy.		
B.				3	Micrite with <10% cs. fraction Bn. gy. / med. gy., 1st ~ 60% argillaceous, bituminous, moderately resistant, nodular, slabby to platy bedding, boudinage + slump structures common		
base of shales	10			2	Similar to above except bedding is weakly resistant		
B.			1	Micrite with <10% cs. fraction 1st ~ 5%, shale ~ 95%, med gy calc.) Bn. gy. / med gy., bituminous, argillaceous, weakly resistant, nodular, slabby to platy, boudinage & slump structures - interbedded shales & 1st.			
	0						

Approximate base of interbedded shales	1st.
--	------

		TOP OF KEY SCARP CANDL FORMATION NOT EXPOSED		
↑ KEE SCARP	C, K S	700		77 micrite with 710% cs. fraction, sparite, lt. gy., resistant, uneven, massive.
	C, K S	695		76 Similar to above
	C			75 micrite with 410% cs. fraction, lt. gy., resistant, uneven, blocky
	C, B	685		74 Similar to above
	C			73 Similar to above
	C	675		72 Similar to above
	S, C, B			71 micrite with 410% cs. fraction, 710% cs. fraction, lt. gy., resistant, uneven, blocky.
	B/C	665		70 micrite with 410% cs. fraction, 425% dolomite, lt. gy., resistant, uneven, blocky.
	B/C			69 micrite with 410% cs. fraction, sparite?, lt. gy., resistant, uneven, blocky.
	B/C	655		68 micrite with 410%, 710% cs. fraction, lt. gy., resistant, uneven, blocky.
	B/C			67 micrite with 410% cs. fraction, lt. gy., resistant, uneven, blocky.
	B/C	645		66 Similar to above
	B/C			65 Similar to above - some micrite with 710% cs. fraction
	C	635		64 micrite with 410% cs. fraction, resistant, uneven, blocky.
	B/C			63 micrite with 410%, 710% cs. fraction, mixed facies
	S, C K	625		62 micrite with 710% cs. fraction, mixed, resistant, uneven, blocky.
	S, C K			61 Similar to above
	K, S C	615		60 Similar to above, - some sparite
	K, S C	605		59 Sparite, micrite with 710% - 410% cs. fraction, 425% dolomite, mixed, resistant, uneven, blocky.
		605		58 Similar to above - no dolomite. Calcareous shales.
	S, K B, C			57 micrite with 410% cs. fraction, 75% shale, weakly resistant, uneven, flaggy - platy.
	S, K B	595		56 micrite with 410%, 710% cs. fraction, 50% shale, mod. resistant, uneven, blocky - platy.
	S, K B			55 micrite with 710% cs. fraction, 50% shale, mod. resistant, uneven, blocky - platy.
	S, K B	585		54 Similar to above - 75% shale.
	S, K B			53 micrite with 410% cs. fraction - 710% cs. fraction, shales - nodules, resistant, uneven, blocky to platy.
	S, K B	575		52 Similar to above.

oil

20

Have Indian

S, K B	575		53	Micrite with <10% cs. fraction - 710% cs. fraction, shales - nodules, resistant, uneven, blocky to platy.
S, K B			52	Similar to above.
K, B. Col. Sol.	565		51	Micrite with <10% cs. fraction, nodular, thin shale, pyrite, resistant, nodular, blocky to platy.
B, K Col. Sol.			50	Micrite with <10% cs. fraction, shale, lt. gy., resistant, uneven, blocky to platy.
K Col. Sol.	555		49	Similar to above
K			48	Similar to above, very nodular.
K,	545		47	Similar to above, nodular
K.			46	Micrite with <10% cs. fraction, shale - 3", lt. gy., resistant, uneven, blocky - platy.
K	535		45	Micrite with <10% cs. fraction, shale 3", lt. gy., moderately resistant, uneven, blocky to platy.
			44	Micrite with <10% cs. fraction, shale, argillaceous, lt. gy./dk. gy. nodular, moderately resistant, uneven, blocky to platy - 6"
	525		43	Similar to above. - nodular
			42	Similar to above. - uneven.
	515		41	Similar to above
			40	Similar to above. - pyrite.
	505		39	Similar to above - shale 2 1/1'
B			38	Micrite with <10% cs. fraction, finely laminated lt. mod. resistant, slabby - platy.
	495		37	Micrite with <10% cs. fraction 3"-6" interbeds, lt. gy., pyrite moderately resistant, nodular, slabby to platy.
			36	Similar to above - no pyrite - nodules in shale.
Gastropods			35	Similar to above - sharp bedding
B.	485		34	Micrite with <10% cs. fraction, 3"-6" interbeds, lt. gy., moderately resistant, sharp, blocky - platy.
	475		33	Similar to above.
B.			32	Micrite with <10% cs. fraction, shale, lt. gy., moderately resistant, sharp, blocky.
	465		31	Micrite with <10% cs. fraction, shale, lt. gy., mod. resistant, sharp, blocky, platy.
			30	Similar to above.
B.	455		29	Similar to above.
			28	Similar to above
	445		27	Similar to above.
B.			26	Micrite with <10% cs. fraction, 1-2" shale partings, lt. gy./dk. gy., moderately resistant, sharp, blocky - platy.
B.			25	Similar to above - lt. gy.

30

B.					
B.	445			26.	micrite with < 10% cs. fraction, 1-2" shale partings, lt. gy/dk. gy., moderately resistant, sharp, blocky - platy.
B.				25.	Similar to above - lt. gy.
B.	435			24.	micrite with < 10% cs. fraction, 1" shale partings, weakly resistant, sharp, blocky - slabby.
B.				23.	Similar to above.
B/c	425			22.	Impure micrite with < 10% cs. fraction, shales, weakly resistant, sharp, blocky to slabby bedding.
B.				21.	Similar to above.
B.	415			20.	Similar to above
B.				19.	Similar to above. 1'3" - Impure 1st.
C, B.	405			18.	Alternating shales, 3", weakly resistant, sharp, slabby.
B.				17.	Calcareous shale, weakly resistant, sharp, blocky - slabby.
B.	395			16.	Similar to above
B.				15.	Similar to above.
	385			14.	Impure 1st. band 1", lt. gy. Similar to above.
				13.	Similar to above - 1' band of impure 1st.
	375			12.	Similar to above.
B.				11.	Similar to above.
B.	365			10.	Similar to above
B.				9.	Similar to above.
	355			8.	Micrite with < 10% cs. fraction impure, lt. gy., weakly resistant, sharp, blocky to slabby.
B.				7.	Shale - calcareous, lt. gy., weakly resistant, sharp, blocky to slabby.
	345			6.	Similar to above
	340				Covered. 251' covered.
Lingula CRICOLORAIDS				5	Shale, blk., weakly resistant, sharp, platy - papery. similar to above.
Lingula CRICOLORAIDS					
Lingula CRICOLORAIDS	30				Similar to above
CRICOLORAIDS				4	Similar to above.
	75				Similar to above.

40

B			9	Similar to above.
365			8	Micrite with $< 10\%$ cs. fraction impure, lt. gy., weakly resistant, sharp, blocky to slabby.
B			7	Shale-calcareous, lt. gy., weakly resistant, sharp, blocky to slabby.
345			6	Similar to above
340				Covered. 251' covered.
Lingula CRICOLONAIDS			5	Shale, blk, weakly resistant, sharp, platy-papery
Lingula CRICOLONAIDS				similar to above.
50				Similar to above
Lingula CRICOLONAIDS				Similar to above.
CRICOLONAIDS			4	
70			3	Similar to above
B CRICOLONAIDS			2	Micrite with $> 10\%$ cs. fraction, lt. gy., pyrite, resistant, uneven, blocky-slabby.
B			1	Micrite with $> 10\%$ cs. fraction, algal facies, lt. gy., resistant, uneven, blocky.
A. Castanea				
60				Micrite with $< 10\%$ cs. fraction, lt. gy., mod. resistant, nodular, slabby.
B				Similar to above.
50				
				Covered.
40				
BK				Micrite with $< 10\%$ cs. fraction, lt. gy., mod. resistant, uneven, blocky.
30				Covered.
BK				Micrite with $< 10\%$ cs. fraction, lt. gy., mod. resistant, uneven, blocky.
20				Similar to above.
B				
10				
				Probable top of Nahanni (not actually measured) From MP(65)

5 of 5

SECTION KL-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 47' W
 FORMATION KEE SCARP AGE MID. DEVONIAN
 LOCALITY POWELL CREEK
 GRID AREA 106 H/SE PHOTO A12601-362
 MEASURED BY MASON DATE JULY 27/68
 PLOTTED BY JAMES DATE AUG. 20/68
 SOURCE OF DATA
 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 |
| 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

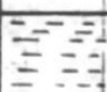
- | | |
|---|-----------|
| F | Fossil |
| L | Lithology |
| P | Porosity |

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 |

1 of

CREEK

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	146						Shale, concretions, non- calcareous, blk, sulfur.

FORT CREEK

KEE SCARP

HARE INDIAN

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	146						
	136					1	Shale, concretions, non- calcareous, blk, Sulfury, weakly resistant, sharp, platy-papery. -weathers 'Canol' yellow. Similar to above.
	126					2	Shale, calcareous, weathers brown, weakly resistant, sharp, platy-papery.
						3	Similar to above
	116					4	Similar to above
C						5	Shale, occ. Crinoid 1st. bands - 6" weakly resistant, sharp, flaggy- platy
C						6	Similar to above.
B	106					7	Shale / micrite with 710% cs. fraction, blk, chert, moderately resistant, sharp, slabby-platy.
B						8	Micrite with <10% - 710% cs. fraction, chert, moderately resistant, sharp-nodular, slabby-platy.
B	96					9	Micrite with <10% cs. fraction, dk. gy, chert, moderately resistant, sharp, platy to papery.
B						10	Similar to above - slump structures.
	86					11	Shale, blk./dk. gy., weakly resistant, sharp, papery.
K						12	Micrite with <10% cs. fraction, dk. gy, moderately resistant, sharp, slabby to platy.
	76					13	Micrite with 710% cs. fraction, blk. chert, resistant, uneven, blocky-platy. (-bands of calcareous and illaceous material interbedded with 1st. bands)
B, K						14	Similar to above
	66					15	Similar to above.
						16	Micrite with <10% cs. fraction, 710% cs. fraction, blk chert, resistant, uneven, slabby
	56					17	Micrite with <10% cs. fraction dk. gy, blk. chert, resistant, uneven, slabby.
						18	Similar to above
						19	Similar to above.
	46					20	Micrite with <10% cs. fraction, / Shale (10%), dk. gy., moderately resistant, uneven-nodular, blocky.
						21	Micrite with <10% cs. fraction, / shale (50%), dk. gy, moderately resistant, uneven/sharp, blocky platy.
	36					22	Similar to above.
K						23	Micrite with <10% - 710% cs. fraction, dk. gy., resistant, uneven, moderately

2 of

KEE SCAR

HARE INDIAN.

B

106

B

B

96

B

86

K

76

B, K

66

56

7

Shale / micrite with 710% cs. fraction, blk., chert, moderately resistant, sharp, slabby-platy.

8

Micrite with <10% - 710% cs. fraction, chert, moderately resistant, sharp-nodular, slabby-platy.

9

Micrite with <10% cs. fraction, dk. gy., chert, moderately resistant, sharp, platy to papery.

10

Similar to above - slump structures.

11

Shale, blk./dk. gy., weakly resistant, sharp, papery.

12

Micrite with <10% cs. fraction, dk. gy., moderately resistant, sharp, slabby to platy.

13

Micrite with 710% cs. fraction, blk. chert, resistant, uneven, blocky-platy. (-bands of calcareous and siliceous material interbedded with 1st. beds)

14

Similar to above

15

Similar to above.

16

Micrite with <10% cs. fraction, 710% cs. fraction, blk. chert, resistant, uneven, slabby

17

Micrite with <10% cs. fraction, dk. gy., blk. chert, resistant, uneven, slabby.

18

Similar to above

19

Similar to above.

20

Micrite with <10% cs. fraction, / shale (10%), dk. gy., moderately resistant, uneven-nodular, blocky.

21

Micrite with <10% cs. fraction, / shale (50%), dk. gy., moderately resistant, uneven/sharp, blocky platy.

22

Similar to above.

23

Micrite with <10% - 710% cs. fraction, dk. gy., resistant, uneven, massive.

24

Micrite with <10% cs. fraction, shale, dk. gy., resistant, uneven, blocky / platy.

25

Micrite with <10% cs. fraction, dk. gy., massive, uneven, resistant.

Shale - micrite with <10% cs. fraction, nodules, moderately resistant, nodular, slabby.

Micrite with 710% cs. fraction, resistant, nodular, blocky.

Micrite with <10% cs. fraction, / shale (25%) dk. gy., moderately resistant, nodular / uneven, blocky-platy.

Tape # 2 ended here.

Tape # 3 84' - covered?

Tape # 4 74'

Tape # 5 74'

Tape # 6 74'

Tape # 7 76'

Tape # 8 71'

Tape # 9 21'

END OF TAPE # 9 corresponds to top of L. CASTANEA BED.

393

SECTION KM-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 128° 59' W
 FORMATION KEE SCARP AGE MID. DEVONIAN.
 LOCALITY 3rd CREEK WEST OF 'POWELL CREEK'
 GRID AREA 106H/SE PHOTO
 MEASURED BY TEBBUTT & JAMES DATE JULY 28, 1968
 PLOTTED BY JAMES DATE AUG. 21, 1968
 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

1 of

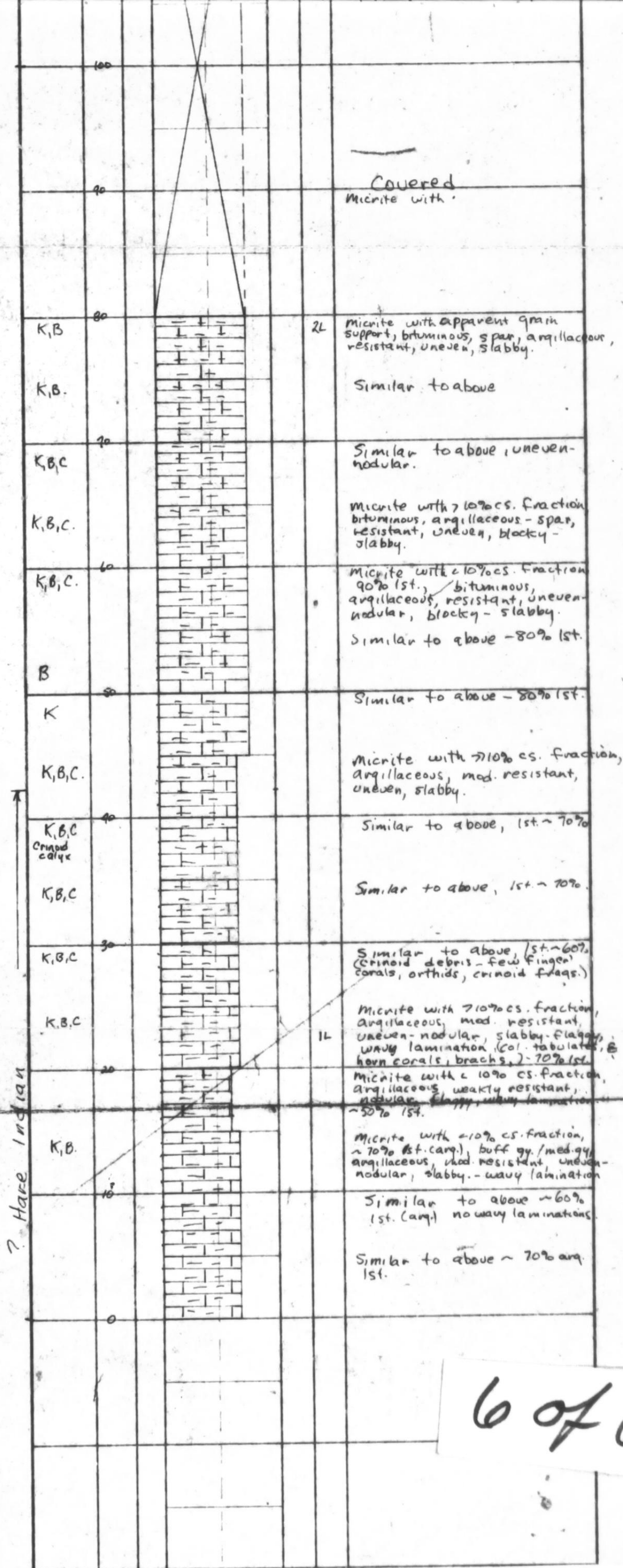
S.				Similar to above
S.	440			Similar to above - blocky.
S.				Micrite with apparent grain support, med. qy./med. qy., massive, uneven-nodular, blocky, resistant
S.	430			Micrite with > 10% cs. fraction, med. qy./med. qy., resistant, sharp, blocky.
S.				Micrite with >> 10% cs. fraction, med. qy./med. qy., resistant, sharp, blocky.
S.	420			Similar to above.
S. (columnar & nodular)				Micrite with ~ 5% cs. fraction, med. qy./med. qy., mod. resistant, sharp, blocky.
S.	410			Similar to above
B				Similar to above.
S, K	400			Micrite with apparent grain support, resistant, uneven, massive.
S, K				Similar to above
B, K?	390			Micrite with > 10% cs. fraction, resistant, mod. resistant, uneven, blocky.
B, K				Similar to above.
S, K, B	380			Micrite with >> 10% cs. fraction, resistant-mod. resistant, nodular-uneven, blocky.
S, K				Micrite with apparent grain support, resistant-mod. resistant, nodular, massive, flaggy, red stains.
S.	370			Similar to above.
Amphipora			4L	Similar to above - uneven.
B, S, C.	360			Micrite with > 10% cs. fraction, mod. resistant-resistant, nodular, slabby.
B, S, C. (few brachiopods, corals, debris)				Similar to above.
S, Amphipora	350			Micrite with apparent grain support, - resistant-mod. resistant, nodular, slabby.
S, Amphipora				Similar to above.
Amphipora	340			Micrite with ~ 10% cs. fraction, resistant, uneven, blocky.
Amphipora				Micrite with apparent grain support, bituminous, argillaceous, resistant, uneven, blocky.
Amphipora	330			Micrite with > 10% cs. fraction, resistant, uneven, blocky.
Amphipora				Similar to above
S.	320			Similar to above
S. (nodular)				Micrite with apparent grain support, buff qy./med. qy., resistant, uneven, blocky.
S, K	310			Micrite with >> 10% cs. fraction, buff qy./med. qy., resistant, uneven, blocky.
S.				Micrite with ~ 10% cs. fraction, buff qy./med. qy., resistant, uneven, blocky.

49

(modular)					Micrite with apparent grain support, buff qy / med. qy, resistant, uneven, blocky.
S, K Amphipora	250				Micrite with > 10% cs. fraction, buff qy / med. qy, resistant, uneven, blocky.
S.					Micrite with < 10% cs. fraction, buff qy / med. qy, resistant, uneven, blocky.
S	240				Micrite with < 10% cs. fraction, med. qy / med. qy, resistant, sharp, blocky.
Amphipora					Similar to above.
Amphipora	240				Micrite with < 10% cs. fraction, med. qy / med. qy, resistant, uneven, blocky.
Amphipora					Micrite with > 10% cs. fraction, med. qy / med. qy, resistant, uneven, blocky.
S	230				Similar to above.
S					Similar to above.
S.	230				Similar to above.
	220				COVERED
					Micrite with < 10% cs. fraction, med. qy / med. qy, resistant, uneven, slabby.
	210				Micrite with > 10% cs. fraction, med. qy / med. qy, resistant, uneven, blocky.
Amphipora					Similar to above.
S	200				Similar to above - massive.
					Micrite with < 10% cs. fraction, med. qy / med. qy, resistant, uneven, blocky.
	230				Similar to above.
					3L Micrite to diamicrite, med. qy, dk. med. qy, resistant, uneven, blocky.
K.	220				Similar to above.
K					Similar to above.
Amphipora	210				Micrite with > 10% cs. fraction, buff qy / med. qy, argillaceous, resistant, uneven, blocky - slabby.
S, K Amphipora					Similar to above
Amphipora	200				Micrite with < 10% cs. fraction, dk. qy, resistant uneven, massive to blocky.
					Micrite with < 10% cs. fraction, med. ln. qy, resistant, uneven, blocky - slabby.
Amphipora	190				Similar to above - blocky.
S Amphipora					Micrite with > 10% cs. fraction, buff qy / dk. bn., resistant, uneven, - blocky - slabby.
K					Micrite with < 10% cs. fraction - micrite with apparent grain support, pelletaloidal facies, resistant, uneven, blocky.
					Micrite with < 10% cs. fraction, resistant, uneven - massive - blocky.

K				Micrite with $\approx 10\%$ cs. fraction - micrite with apparent grain support, pelloidal facies, resistant, uneven, blocky. Micrite with $\approx 10\%$ cs. fraction, resistant, uneven - massive - blocky.
Amphipora K, S	170	KKKK		Micrite with $\approx 10\%$ cs. fraction, resistant, uneven, - massive to blocky - (down dip $\sim 1'$ bed of finger corals in bituminous mix. & nodular & cabbage stroms. Micrite with apparent grain support, resistant, uneven, massive blocky - $1'$ bed finger corals in blk. bituminous mix, with isolated cabbage stroms.
K Amphipora	160	KKKK		Micrite with apparent grain support, resistant, uneven, massive, cabbage & columnar stroms corals, not frame builder. $1'$ cord bed.
S, K				Micrite with $\gg 10\%$ cs. fraction bituminous, argillaceous, resistant - mod. resistant, uneven, blocky.
S, K				
K, S	150			Similar to above: Slabby.
K, S.				Similar to above - uneven - nodular, blocky.
	140			
				covered
S.	120			Micrite with $\approx 10\%$ cs. fraction, Buff qy./mod. qy., argillaceous, uneven, resistant, blocky.
	110			
	100			covered
	90			covered
	80			covered
K, B	70		2L	Micrite with apparent grain support, bituminous, spar, argillaceous, resistant, uneven, slabby.
K, B.				Similar to above
K, B, C	60			Similar to above, uneven - nodular.
K, B, C.				Micrite with $\approx 10\%$ cs. fraction bituminous, argillaceous - spar, resistant, uneven, blocky - slabby.
K, B, C.	50			Micrite with $\approx 10\%$ cs. fraction 90% 1st., bituminous, argillaceous, resistant, uneven - nodular, blocky - slabby. Similar to above - 80% 1st.
B	40			Similar to above - 80% 1st.
K				Micrite with $\approx 10\%$ cs. fraction, argillaceous, mod. resistant, uneven, slabby.
K, B, C.				Similar to above, 1st. $\sim 70\%$

5 of



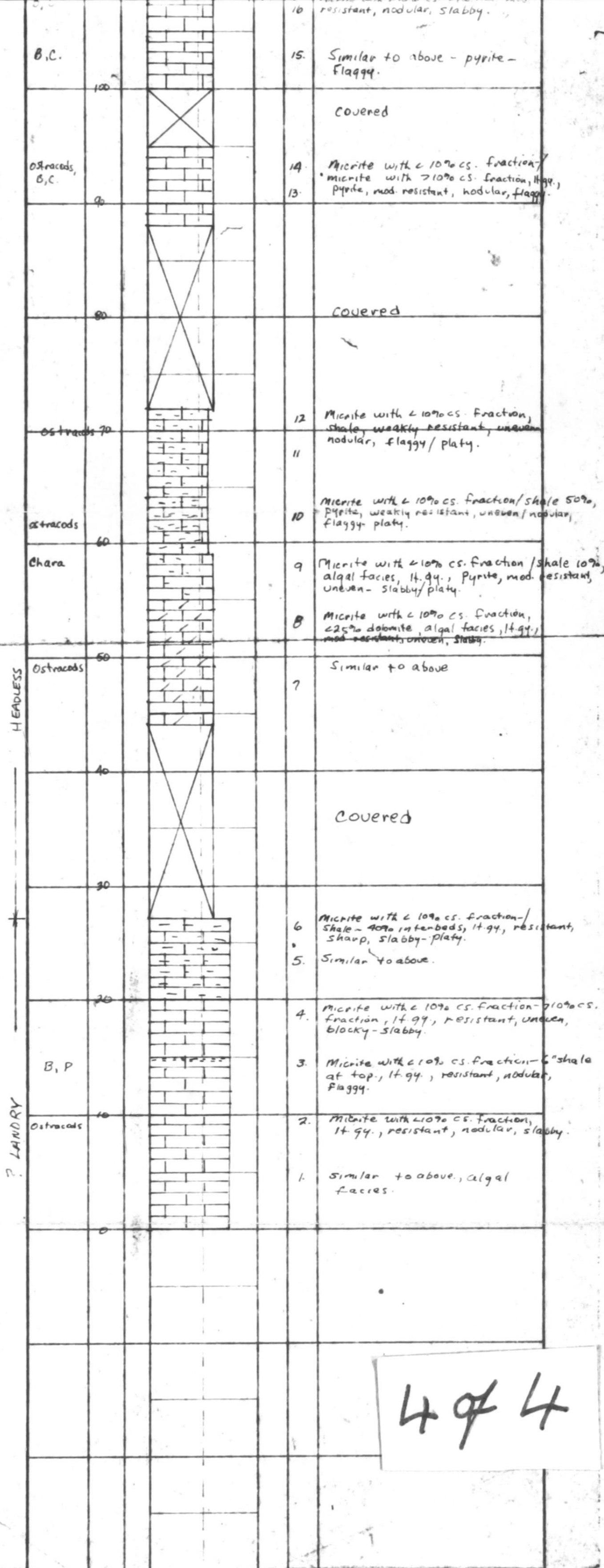
FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	TOP		OF	NAHANNI			

		TOP OF NAHANNI			
NAHANNI		355		50	Micrite with <10% cs. fraction, lt. gy., resistant, uneven, massive.
		350		49	Similar to above
	B			48	Similar to above.
		340		47	Similar to above - blocky.
				46	Micrite with <10%, >10% cs. fraction, lt. gy., resistant, uneven, massive - blocky.
		330		45	Micrite with <10% cs. fraction, lt. gy., massive, uneven, resistant.
				44	Similar to above.
		320		43	Similar to above.
				42	Similar to above - blocky.
		310		41	Similar to above - slabby.
NAHANNI				40	Similar to above - slabby.
		300		39	Similar to above - massive.
				38	Similar to above - massive algal
		290		37	Similar to above - massive algal
	K			36	Similar to above - massive, algal.
		280		35	Similar to above - algal-massive.
	B, K			34	Similar to above - massive - blocky.
	K	270		33	Similar to above - massive - blocky.
				32	Micrite with <10% cs. fraction, bn. gy., resistant, uneven, blocky.
	K	260		31	Similar to above
HEADLESS				30	Similar to above
	B	250		29	Similar to above
					Covered
	K, B	240		28	Similar to above 20% shale.
	K			27	Similar to above - 20% shale.
		230		26	Similar to above - 20% shale
	K			25	Similar to above - 20% shale.

20

			27	Similar to above - 20% shale.
			26	Similar to above - 20% shale.
K	230		25	Similar to above - 20% shale.
K	220		24	Micrite with < 10% cs. fraction, lt. gy, weakly resistant, sharp, platy, blocky.
	210			Covered
	200			
C, B			23	Micrite with < 10% cs. fraction, lt. bn. gy, mod. resistant, uneven, slabby-flaggy.
	190			
	180			Covered
	170			
	160			
B, C ostracods			22	
			21	Micrite with > 10% cs. fraction, mod. resistant, nodular, blocky, slabby.
	150			Covered
Ostracods			20	Micrite with < 10% cs. fraction, resistant, nodular, blocky.
	140		19	Micrite with > 10% cs. fraction, micrite with > 15% cs. fraction resistant, uneven, blocky.
S			18	Micrite with > 10% cs. fraction, shale - 20%, lt. gy, resistant, uneven, blocky.
K, B Trilobites	130		17	Similar to above - no shale.
	120			Covered
	110			
B, C			16	Micrite with > 10% cs. fraction, mod. resistant, nodular, slabby.
B, C.			15	Similar to above - pyrite - flaggy.
	100			Covered

39



4 of 4

#2

SECTION KO-68 LAT 65° 20' N
Lsd. Sec. Twp Rge M LONG 129° 58' W
FORMATION LANDRY, HUME AGE MID. DEVONIAN
LOCALITY EAST TRIBUTARY OF THE HUME RIVER
GRID AREA 106H/SW PHOTO A12695-277
MEASURED BY NAYLOR, MASON DATE JULY 29/68
PLOTTED BY JAMES DATE AUG. 26/68
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

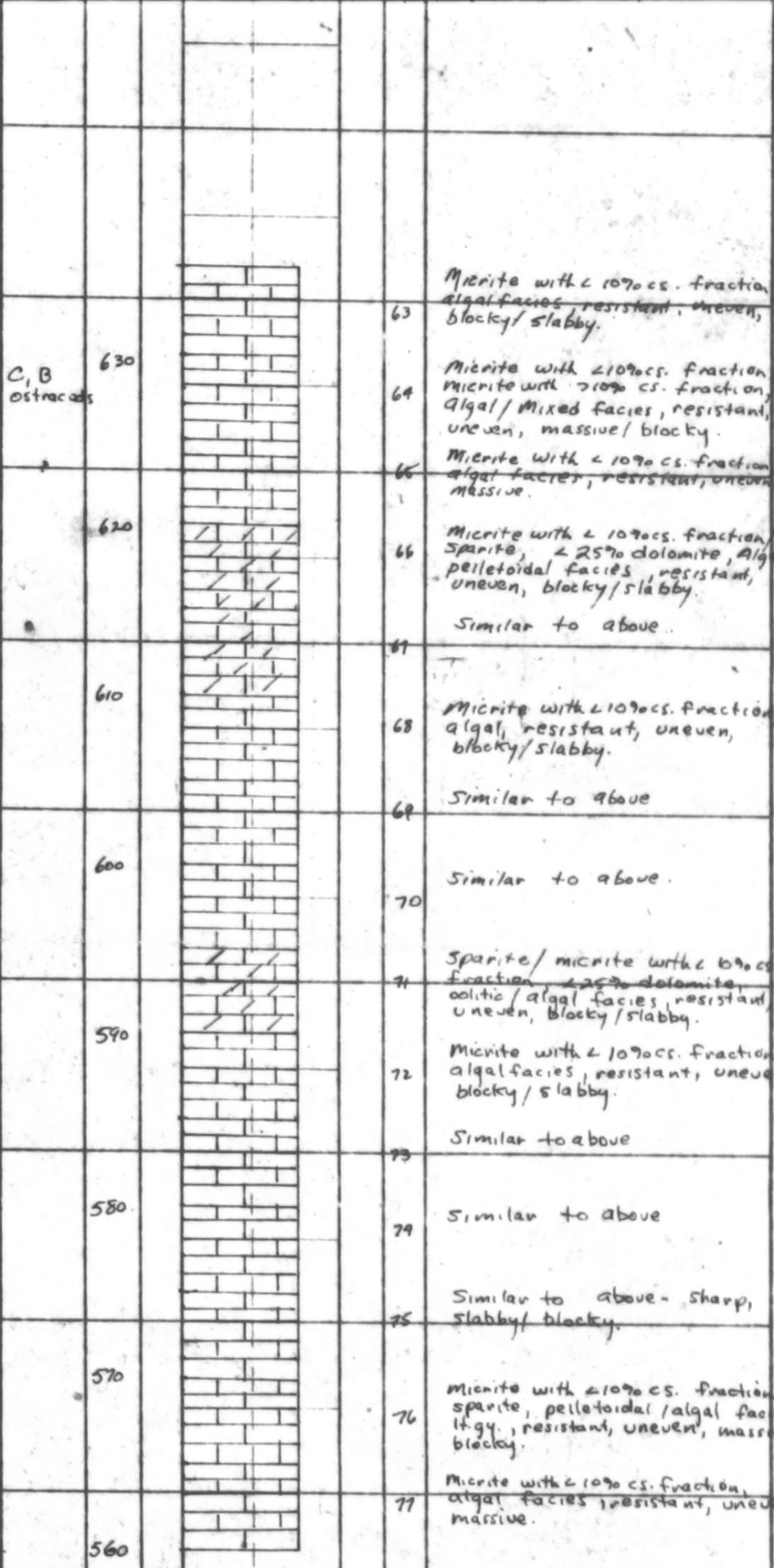
	Fossil
	Lithology
	Porosity

CRYSTAL OR GRAIN SIZE

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

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

1 of



Base of section, starts in Landry / Bear Rock equivalents at top of shaly / platy micritic unit (8-10') which is relatively regressive.

100' estimated below #77

78 } micrite with < 10% cs. fraction, sparite, algal/pelletoidal facies, resistant, uneven, blocky/slabby.

300' below

79 } Similar to above.

500' below

80 } Micrite with < 10% cs. fraction, algal facies, resistant, uneven, massive/blocky.

560' below

81 } Micrite with < 10% cs. fraction, algal facies, resistant - mod resistant, uneven, blocky/slabby.

29

FO	ACE	FO	PO	LI	TO	EX	CR	GR	SA
B		1023'							1. Micrite with $\leq 10\%$ cs. fraction, resistant, uneven, massive.
B		1020							2. micrite with $\leq 10\%$ cs. fraction, resistant, nodular, blocky/slabby.
B, K		1010							3. Micrite with $\leq 10\%$ cs. fraction / shale ~ 50%, mod. resistant, nodular, blocky.
K, B, C									4. Shale / micrite with $\approx 10\%$ cs. fraction, ~20% weakly resistant, nodular, slabby / blocky.
K (colonial)		1000							5. Similar to above - slabby / platy.
K (colonial)									6. Micrite with $\leq 10\%$ cs. fraction / shale - 50%, weakly resistant - nodular, slabby / platy.
		990							
		980							
		970							Covered
		960							
Top of (K, B) Nahanni (lume)		950							7. Micrite with $\approx 10\%$ cs. fraction, argillaceous, buff dk. gy. / dk. bn. gy., mod. resistant, nodular, slabby, abundant small colonial corals, some brachs. Covered
K, B		940							8. Micrite with $\approx 10\%$ cs. fraction, buff dk. gy. / dk. bn. gy., resistant, uneven, blocky.
Trilobite pygidium Greenops?									9. Similar to above, blocky / slabby
K, B		930							10. Similar to above - blocky.
									11. Micrite with $\approx 10\%$ cs. fraction, buff dk. gy. / dk. gy., resistant, uneven, blocky.
K, B, G (Favosites India)		920							12. Micrite with $\approx 10\%$ cs. fraction, buff dk. gy. / dk. gy., cs. spar on joints, resistant, uneven, blocky.
K, B, G. local concs - brachs - corals									13. Micrite with $\sim 10\%$ cs. fraction, resistant, uneven, blocky.
K, B, G		910							14. Similar to above - slabby.
B, G									15. Similar to above - massive - blocky, vein calcite x tals
K		900							16. Similar to above - vein calcite x tals, blocky - slabby.
K									17. Similar to above
		890							Similar to above - slabby

K	890			16	Similar to above - vein calcite xtal's, blocky - slabby.
K				17	Similar to above
K, B	890			18	Similar to above - slabby.
K, B				19	Micrite with $< 10\%$ cs. fraction, uneven - nodular
B	880			20	Similar to above - slabby / blocky.
G, B, C, Trilob. to pygidium.				21	Micrite with $> 10\%$ cs. fraction, resistant, uneven - slabby.
G, B, K, C	870			22	Similar to above - calcite veins
G, B, K, C				23	Similar to above, sharp - fine bioclastic debris.
G, B	860			24	Micrite with $> 10\%$ cs. fraction, calcite veins, resistant, uneven, slabby.
B, K, S. abundant brachs & corals	850	B S B S B E stems B S B S B		25	Micrite with apparent grain support - calcite veins - uneven, nodular, blocky - slabby.
K, B abundant coral colonies				26	Micrite with $> 10\%$ cs. fraction, micrite with apparent grain support, mod. resistant, uneven - blocky.
K, B - nodular cabbage-type corals Chaetetes	840			27	Similar to above, argillaceous - shale ptgs. $\sim 10\%$
K, B small corals.				28	Micrite with apparent grain support - shale ptgs. $\sim 40\%$, med. gy. / dk. gy., argillaceous - mod. resistant, uneven, blocky.
K, B				29	Micrite with $> 10\%$ cs. fraction shale ptgs. $\sim 20\%$, resistant, uneven - blocky.
K, B	830			30	Micrite with $> 10\%$ cs. fraction shale ptgs. $\sim 10\%$, med. gy. / dk. gy., resistant, uneven - blocky.
K, B				31	Similar to above - mod. resistant - shale ptgs. $\sim 20\%$ - fine fossil debris.
K, B	820		bedding plane by polygonal micritic	32	Micrite with $> 10\%$ cs. fraction dk buff gy. / dk. gy., resistant uneven - blocky. - fine fossil debris & argillaceous 1st. shale ptgs. $\sim 10\%$
				33	Similar to above. - buff / med. bn. gy.
	810				covered.
B, T, S	800			34	Micrite with $< 10\%$, $> 10\%$ cs. fraction, buff gy. / dk. gy., fine fossil debris, resistant, uneven - blocky.
K.				35	cs. spar on joints.
S, K, B, C				36	Micrite with $< 10\%$ / $> 10\%$ cs. fraction, resistant, uneven - massive / blocky
S, K, B, C, T	790			37	Micrite with $< 10\%$ cs. fraction, resistant, uneven, blocky / massive
B, K, C				38	Micrite with $< 10\%$ cs. fraction, resistant, uneven, blocky / slabby.
B, K, C	780			39	Micrite with $< 10\%$ cs. fraction, mod. resistant, uneven, slabby / blocky.
					covered
B, K	770			40	Micrite with $< 10\%$ cs. fraction / shale - mod. resistant, uneven, slabby / platy.
B, K				41	Similar to above
B, K, C	760				Micrite with $> 10\%$ cs. fraction, mod. resistant, uneven - blocky.

39

K	890		16	Similar to above - vein calcite xtal, blocky - slabby.
K			17	Similar to above
K, B	890		18	Similar to above - slabby.
K, B			19	Micrite with < 10% cs. fraction, uneven - nodular
B	880		20	Similar to above - slabby / blocky.
G, B, C Trilobite pygidium.			21	Micrite with > 10% cs. fraction, resistant, uneven - slabby.
G, B, K, C	870		22	Similar to above - calcite veins
G, B, K, C			23	Similar to above, sharp - fine bioclastic debris.
G, B	860		24	Micrite with > 10% cs. fraction, calcite veins, resistant, uneven, slabby.
B, K, S abundant brachs & corals	850	B S B S B E str. B S B S B	25	Micrite with apparent grain support - calcite veins - uneven nodular, blocky - slabby.
K, B abundant coral colonies			26	Micrite with > 10% cs. fraction - micrite with apparent grain support, mod. resistant, uneven - blocky.
K, B - nodular cabbage- type corals Chaetetes	840		27	Similar to above, argillaceous - shale ptgs. ~ 10%
K, B almost all corals.			28	Micrite with apparent grain support - shale ptgs. ~ 40%, med. gy. / dk. gy., argillaceous - mod. resistant, uneven, blocky.
K, B			29	Micrite with > 10% cs. fraction shale ptgs. ~ 20%, resistant, uneven - blocky.
K, B	830		30	Micrite with > 10% cs. fraction shale ptgs. ~ 10%, med. gy. / dk. gy., resistant, uneven - blocky.
K, B			31	Similar to above - mod. resistant - shale ptgs. ~ 20% - fine fossil debris.
K, B	820		32	Micrite with > 10% cs. fraction, dk buff gy. / dk. gy., resistant uneven - blocky. - fine fossil debris & argillaceous lst. - shale ptgs. ~ 10%
		bedding plane polygonal mud cracks	33	Similar to above. - buff / med. bn. gy.
	810			covered.
B, T, S	800		34	Micrite with < 10%, > 10% cs. fraction, buff gy. / dk. gy., fine fossil debris, resistant, uneven - blocky.
K			35	cs. spar on joints.
S, K, B, C T			36	Micrite with < 10% / > 10% cs. fraction, resistant, uneven - massive / blocky
S, K, B, C, T	790		37	Micrite with < 10% cs. fraction, resistant, uneven, blocky / massive
B, K, C			38	Micrite with < 10% cs. fraction, resistant, uneven, blocky / slabby.
B, K, C	780		39	Micrite with < 10% cs. fraction, mod. resistant, uneven, slabby / blocky.
				covered
B, K	770		40	Micrite with < 10% cs. fraction / shale - mod. resistant, uneven, slabby / platy.
B, K			41	Similar to above
B, K, C	760			Micrite with > 10% cs. fraction, mod. resistant, nodular - blocky.

39

Headless	B, K	770		40	Micrite with $\approx 10\%$ cs. fraction / shale - 5% mod. resistant, uneven, slabby / platy.
	B, K			41	Similar to above
	B, K, G.	760		42	Micrite with $> 10\%$ cs. fraction, mod. resistant, nodular, blocky.
				43	Micrite with $> 10\%$ cs. fraction / shale - 40%, mod. resistant, nodular, slabby / platy.
	B, K	750		44	Micrite with $> 10\%$ cs. fraction, mod. resistant, nodular, slabby / flaggy.
				45	Shale, weakly resistant, nodular, platy.
		740		46	Shale / micrite with $\approx 10\%$ cs. fraction - 10%.
				47	Micrite with $\approx 10\%$ cs. fraction / shale - 20% / mod. resistant, nodular, blocky / platy.
	K	730		48	Micrite with $\approx 10\%$ cs. fraction, mod. resistant, nodular, blocky / slabby.
	B, P, C, K			49	Micrite with $> 10\%$ cs. fraction, weakly resistant, nodular, flaggy / platy.
	B, P, C, K	720		50	Similar to above
	K, C, B			51	Micrite with $\approx 10\%$ cs. fraction / micrite with $> 10\%$ cs. fraction - 20%, weakly resistant, nodular, slabby / platy.
	B, K	710		52	Micrite with $\approx 10\%$ cs. fraction, mod. resistant, nodular, slabby / platy.
		700			Covered.
	B			53	Micrite with $> 10\%$ cs. fraction / micrite with $\approx 10\%$ cs. fraction, mod. resistant, uneven - nodular, slabby / flaggy.
	B	690		54	Micrite with $> 10\%$ cs. fraction, uneven / nodular, slabby / flaggy.
Top of Landry		680			Covered.
				55	Shale, H. gy., weakly resistant, uneven, platy / papery.
		670		56	Shale / micrite with $\approx 10\%$ cs. fraction - 20% weakly resistant, uneven, platy / papery.
				57	Shale, weakly resistant, uneven, platy / papery.
		660		58	Micrite with $\approx 10\%$ cs. fraction / shale - 20%, mod. resistant, nodular, blocky / platy.
				59	Similar to above - shale - 30%.
		650		60	Micrite with $\approx 10\%$ cs. fraction / sparite, algal - pelletoidal facies, mod. resistant, nodular, blocky / slabby.
				61	Micrite with $\approx 10\%$ cs. fraction, algal facies, resistant, nodular, slabby.
		640		62	Micrite with $\approx 10\%$ cs. fraction / sparite, algal / pelletoidal facies, resistant, nodular, blocky / slabby.

49

LITHOLOGY

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

ACCESSORIES

 Ironstone  Carb. Flecks  Pyrite  Crinoidal  Bitumen  Salt Casts	 Glaucconite  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
	440						

SECTION KQ - 68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 129° 05' W
 FORMATION KEE SCARP AGE MID. DEVONIAN.
 LOCALITY EAST OF STROME CREEK
 GRID AREA 1064 SW PHOTO A12601-427
 MEASURED BY O JAKANGAS & MASON DATE AUG. 1 / 68
 PLOTTED BY JAMES DATE AUG. 16 / 68
 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

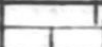
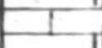
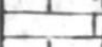
VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

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

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
S Amphipora	280						Micrite with 7-10% cs. fraction, resistant, uneven, massive
S, Amphipora						27.	Similar to above. -
S, K	270						Micrite with 7-10% cs. fraction, resistant, uneven, massive to blocky.

1 of

S, K, B
Amphipora

Similar to above. - Stroms
in growth position. ?

S, K, B

Similar to above. - Stroms
in growth position.

S, K, B

Similar to above

S, K

Similar to above.
Stroms in thin bands.

Cladopora
S



33 Micrite with apparent
grain support, blk, weakly
resistant, uneven, massive
(very abundant Cladopora
beds)
Similar to above

Cladopora
S

S, K, C
Stachyodes

34 Micrite with < 10% cs. fraction,
H. gy., resistant, uneven,
massive.

100

90

80

70

S, K, B

Micrite with apparent grain
support, H. gy., resistant,
uneven, massive - Slabby.
some branching corals, some
layered stroms.

K, C

Micrite with < 10% cs. fraction,
H. gy., resistant, uneven, massive
to slabby.

S, K, C.

Micrite with < 10% - 210% cs.
fraction, resistant, uneven,
massive.

S, K, C.

Similar to above.

50

40

30

Abundant
stroms.

Similar to above.

B

Similar to above

10

covered.

393

#1. SECTION KQ-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 129° 05' W
 FORMATION KEE SCARP AGE MID. DEVONIAN
 LOCALITY EAST OF STROME CREEK
 GRID AREA 106 H SW PHOTO A12601-427
 MEASURED BY WAKANGASÉ MASON DATE AUG. 1/68
 PLOTTED BY JAMES DATE AUG. 16/68
 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

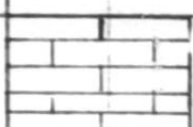
VUGGY	INTERGRAN
o	Poor +
o o	Fair ++
o o o	Good +++
o o o o	Very Good ++++

SAMPLES

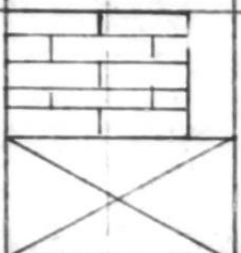
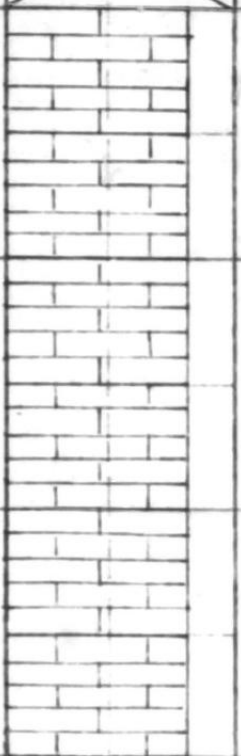
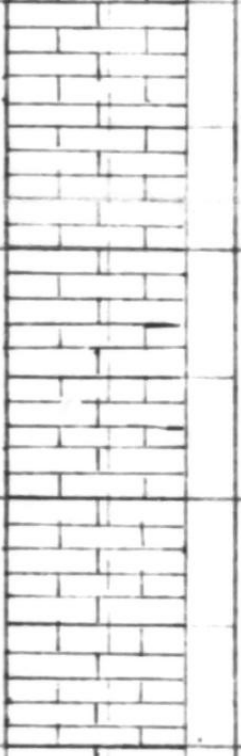
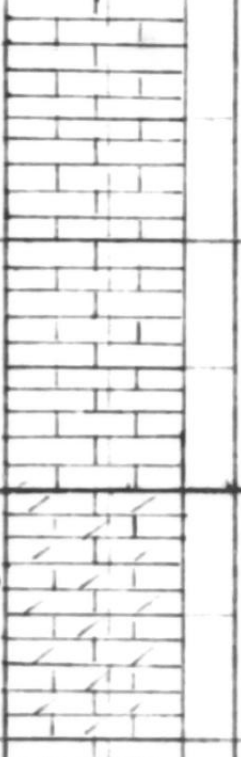
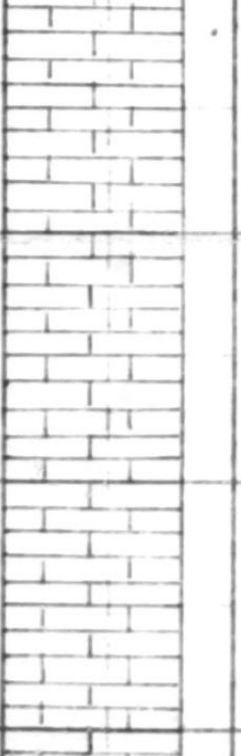
F	Fossil
L	Lithology
P	Porosity

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

FOSSILS ACCESSORY FEATURES	FORM TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Amphipora	670					1	Micrite with 70% cs. fraction, resistant, uneven, massive.

1 of

Amphipora	670		1	Micrite with >10% cs. fraction, resistant, uneven, massive. Covered
Amphipora	660		2	Micrite with apparent grain support, lt. gy, resistant, uneven, massive.
Amphipora			3	Similar to above
Amphipora	650		4	Micrite with >10% <10% cs. fraction, lt. gy, resistant, uneven, massive.
Amphipora			5	Micrite with <10% cs. fraction - micrite with apparent grain support, lt. gy, resistant, uneven, massive.
Amphipora	640			Similar to above
Amphipora S				Similar to above
Amphipora S			6	Micrite with apparent grain support, lt. gy, resistant, uneven, massive
Amphipora S	630		7	Similar to above.
Amphipora S				Similar to above.
Amphipora	620		8	Micrite with <10% cs. fraction, lt. gy, resistant, uneven, massive.
Amphipora				Similar to above
Amphipora	610			Similar to above
Amphipora K	600		9	Micrite with apparent grain support, resistant, uneven, massive.
Amphipora				Similar to above
Amphipora	580			Similar to above.
Amphipora			10	Similar to above
Amphipora	570			Similar to above
Amphipora				Similar to above
Amphipora	560		11	Similar to above
Amphipora				Similar to above
Amphipora	550			Similar to above
Amphipora			12	Similar to above
Amphipora	540			Similar to above
Amphipora				Similar to above
Amphipora	530		13	Similar to above
Amphipora				Similar to above
Amphipora	520			Similar to above
Amphipora			14	Micrite with <10% cs. fraction, lt. gy, resistant, uneven, massive.
Amphipora	510			Micrite with >10% cs. fraction, resistant, uneven, massive.
Amphipora				Similar to above
Amphipora	500		15	Micrite with <10% cs. fraction, lt. gy, no fossils, resistant, uneven, massive
Amphipora				Micrite with apparent grain support, lt. gy, resistant, uneven, massive.
Amphipora	490			Similar to above.
Amphipora				Similar to above.
Amphipora	480			Similar to above.
Amphipora				Similar to above.

20

Amphipora			15	Micrite with apparent grain support, lt. gy., resistant, uneven, massive
Amphipora Stroms ~2"-1" growth position	540			Similar to above.
Amphipora S				Similar to above.
Amphipora S	530		16	Similar to above.
Amphipora Stroms (10")			17	Micrite with apparent grain support, lt. gy., moderately resistant, uneven, slabby.
Amphipora S.	520		18	Micrite with 70% cs. fraction - 25% - 75% dolomite, lt. gy., moderately resistant, uneven, slabby.
Amphipora S.				Micrite with apparent grain support, lt. gy., resistant, uneven, massive.
Amphipora S	510			Similar to above.
Amphipora S				Similar to above - moderately resistant.
Amphipora	500		19	Micrite with apparent grain support, lt. gy., resistant, uneven, slabby.
Amphipora S.				Micrite with 70% cs. fraction, lt. gy., resistant, uneven, slabby.
Amphipora S	490			Similar to above - blocky.
Amphipora S				Similar to above - massive
Amphipora S	480			Similar to above - blocky.
Amphipora Stroms ~4"				Similar to above - blocky to slabby. Amphipora very small in comparison to above Amphipora
Amphipora Stroms 2-10" 1" growth position	470		20	Micrite with apparent grain support, lt. gy., resistant, uneven, massive.
Amphipora Stroms				Similar to above.
Amphipora	460			Micrite with 40% cs. fraction: moderately resistant, uneven, blocky to slabby.
Amphipora			21	Micrite with 40% cs. fraction, lt. gy., resistant, uneven, blocky.
Amphipora S.	450			Micrite with apparent grain support, lt. gy., resistant, uneven, massive.
Amphipora S.				Similar to above - blocky.
Amphipora S.	440		22	Micrite with 40% cs. fraction Algal facies, lt. gy., resistant, uneven, massive.
Amphipora				Micrite with 70% cs. fraction, lt. gy., resistant, uneven, massive.
Amphipora	430			Micrite with apparent grain support, lt. gy., resistant, uneven, massive.
Amphipora S			23	Micrite with 70% cs. fraction, lt. gy., resistant, uneven, massive.
Amphipora	420			Micrite with 40% cs. fraction, lt. gy., resistant, uneven, massive.
Amphipora				Similar to above - blocky
Amphipora	410			Similar to above

Amphipora	410			Similar to above
	400			Covered.
No fossils	390			Micrite with < 10% cs. fraction, lt. gy., resistant, uneven, massive.
				Similar to above
	380		24	Similar to above.
Amphipora				Similar to above.
No fossils	370			Micrite with < 10% cs. fraction, lt. gy., resistant, uneven, massive.
Amphipora S				Similar to above
Amphipora	360			Similar to above
Amphipora				Similar to above
Amphipora	350			Similar to above
Amphipora				Similar to above - blocky.
No fossils	340			
No fossils			25	Similar to above (algal)
No fossils	330			Similar to above
Amphipora				Micrite with < 10% cs. fraction, < 25% dolomite, algal, lt. gy., resistant, uneven, massive.
Stroms Amphipora	320			Similar to above - nodolomite,
Stroms Amphipora				Similar to above.
Amphipora	310			Micrite with < 10% cs. fraction - micrite with apparent grain support, lt. gy., resistant, uneven, massive.
Amphipora			26	Similar to above.
Amphipora Stroms.	300			Micrite with < 10% cs. fraction, resistant, uneven-nodular, blocky to slabby.
Amphipora Stroms				Micrite with < 10% cs. fraction, resistant, uneven, massive.
Amphipora G	290			Micrite with > 10% cs. fraction, resistant, uneven, massive
Amphipora				Similar to above
	280			

SECTION KR-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 129° 23' W
 FORMATION HARE INDIAN AGE MID. DEVONIAN
 LOCALITY EAST TRIBUTARY OF THE GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-54
 MEASURED BY MASON & DAHLMAN DATE JULY 31/68
 PLOTTED BY JAMES DATE AUG. 23/68
 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

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

1 of

				Similar to above
			26	Similar to above
210				Similar to above
			25	Similar to above
200				Similar to above
			24	Similar to above Shale, (calcareous), weakly resistant, sharp, platy/ papery.
190				Similar to above
			23	Similar to above
180				Similar to above
			22	Similar to above
170				Similar to above
			21	Shale - (non calcareous), lt. gy., weakly resistant, sharp, platy-papery.
160				Similar to above
			20	Similar to above
150				Similar to above
			19	Similar to above.
140				Shale - (non calcareous) occasional 1st - 2" - fibrous calcite, blk, pyrite, weakly resistant, sharp.
			18	Similar to above.
130				Similar to above
			17	Similar to above
120				Similar to above
			16	Similar to above
110				Similar to above
			15	Similar to above
100				Shale, non calcareous, blk, pyrite, weakly resistant, nodular, platy.
	B		14	Micrite with <10% cs. fraction, mod. resistant, nodular, blocky- slabby.
90			13	Micrite with <10% cs. fraction, Shale ~50%, mod. resistant, nodular, slabby/ platy.
	B, K		12	Micrite with <10% cs. fraction, mod. resistant, nodular - blocky, slabby.
80			11	

				11	Similar to above
	120				Similar to above
				16	Similar to above
	110				Similar to above
				15	Similar to above
	100				
B				14	Shale, non calcareous, blk, pyrite, weakly resistant, nodular, platy.
	90			13	Micrite with <10% cs. fraction, mod. resistant, nodular, blocky, slabby.
B, K				12	Micrite with <10% cs. fraction, shale ~50%, mod. resistant, nodular, slabby/platy.
B, K				11	Micrite with <10% cs. fraction, mod. resistant, nodular-blocky, slabby.
	80				
	70				
					covered
	60				
B				10	Micrite with <10% cs. fraction, shale ~10%, mod. resistant, nodular, slabby/platy.
	50				
					covered
B, K				9	Similar to above. shale ~2%
	40				
				8	Calcareous shale, weakly resistant, nodular, platy.
K				7	Similar to above.
	30				
B				6	Micrite with <10% cs. fraction / shale ~20%, weakly resistant, nodular, platy / slabby.
				5	Calcareous shale, weakly resistant, nodular, platy.
	20				
B, K				4	Shale / micrite with <10% cs. fraction ~20%, weakly resistant, nodular, platy / slabby.
B, K				3	Micrite with <10% cs. fraction / shale, lt. gy., weakly resistant, nodular, platy / slabby.
	10				
B				2	Similar to above, shale ~50%
				1	Micrite with <10% cs. fraction / shale ~20%, lt. gy., mod. resistant, nodular, slabby / blocky.
	0				

4 of 4

SECTION KS-68 LAT 65° 17' N
 Lsd. Sec. Twp Rge M LONG 129° 22' W
 FORMATION KEE SCARP AGE U-Mid. Devonian
 LOCALITY EAST OF GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-54
 MEASURED BY MASON E DAHLMAN DATE
 PLOTTED BY JAMES DATE AUG. 8/68
 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
	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.
•	Finely Fragmental
••	Medium Fragmental
•••	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.

• Finely Fragmental
 ◊◊ Medium Fragmental
 ◊◊◊ Coarsely Fragmental

7 Hare Indian
 Kee Scarp

FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	60						
C, B	53					8	Micrite with apparent grain support - <u>stromes</u> - resistant to weathering - uneven bedding - massive type of bedding.
C.	50					1	Micrite with apparent grain support - <u>stromes</u> - resistant to weathering - massive type of bedding.
C.						7	Micrite with apparent grain support - resistant to weathering - uneven bedding - massive type of bedding.
C?	40						
C						6	Micrite with 10% coarse fraction - resistant to weathering - uneven bedding - massive type.
B, K	30						Micrite with <10% coarse fraction - <u>stromes</u> - resistant to weathering - uneven character of bedding - massive type.
K							Micrite with <10% coarse fraction - resistant to weathering - uneven character of bedding - massive.
C	20					5	Micrite with <10% coarse fraction - <25% dolomite? - light gy. <u>stromes</u> ? - resistant to weathering - uneven character of bedding - massive.
C						4	Micrite with <10% coarse fraction - light gy. - <u>Amphipore</u> - resistant to weathering - uneven character of bedding - massive.
	10					3	Micrite with >10% coarse fraction - black shale - prevalent. <u>STROMES</u> Present.
S						2	Micrite with <10% coarse fraction - dark grey - moderate resistance to weathering. Nodular character of bedding - Blocky to slabby type of bedding.
K, B C	0					1	

2 of 2

SECTION KT-68 LAT 65°18' N
 Lsd. Sec. Twp Rge M LONG 129°24' W
 FORMATION KEE SCARP AGE U-MID-DEVONIAN
 LOCALITY 1/2 MILE WEST OF GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-13
 MEASURED BY NAYLOR-JAKANGAS DATE
 PLOTTED BY JAMES DATE AUG. 8/68
 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

KT

- o Finely Fragmental
- o o Medium Fragmental
- o o o Coarsely Fragmental

KT

		FOSSILS ACCESSORY FEATURES	FORM, TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
Kee Scarp			70						
			60	62					micrite without apparent grain support, lt. gy., <u>stromes</u> , resistant to weathering, uneven bedding, massive
			50				12	micrite without apparent grain support, lt. gy., <u>stromes</u> , <u>amphipora</u> , resistant to weathering, uneven bedding, massive bedding	
	K						11	micrite without apparent grain support, lt. gy., <u>stromes</u> , resistant to weathering, uneven bedding character, massive	
			40				10	micrite without apparent grain support, lt. gy., <u>stromes</u> , resistant to weathering, uneven bedding, massive beds	
	K						9	micrite with <10% coarse fraction, lt. gy., <u>amphipora</u> , resistant to weathering, uneven bedding, blocky to slabby	
			30				8	micrite with <10% coarse fraction, lt. gy., <u>amphipora</u> , <u>cladopora</u> , resistant to weathering, uneven bedding character, slabby to flaggy	
	K						7	micrite with <10% coarse fraction, lt. gy., <u>amphipora</u> , <u>cladopora</u> , resistant to weathering, uneven bedding character, massive to blocky	
	K						6	micrite with <10% coarse fraction, lt. gy., <u>amphipora</u> , <u>cladopora</u> , resistant to weathering, uneven bedding character, massive to blocky	
			20				5	micrite with <10% coarse fraction, lt. gy., <u>amphipora</u> , <u>cladopora</u> , resistant to weathering, uneven bedding character, massive - blocky bedding	
	K						4	micrite with <10% coarse fraction - apparent grain support, lt. gy., <u>amphipora</u> , resistant to weathering - uneven bedding, slabby - flaggy bedding type	
	K, B		10				3	micrite with <10% coarse fraction - 25% dolomite, lt. gy., <u>amphipora</u> - resistant to weathering - uneven bedding, blocky - slabby bedding type	
K, B						2	micrite with <10% coarse fraction - lt. gy., <u>amphipora</u> - resistant to weathering - uneven bedding - blocky - massive bedding type		
		0				1	micrite with <10% coarse fraction. Shales found within. - moderate resistance to weathering - uneven bedding character - slabby to flaggy bedding type		

2 of

2 of 2

SECTION KU-68 LAT 65° 18' N
 Lsd. Sec. Twp Rge M LONG 129° 25' W
 FORMATION KEE SCARP AGE U.-MID. DEVONIAN
 LOCALITY 1 MILE WEST OF GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-54
 MEASURED BY NAYLOR - OJAKANGAS DATE
 PLOTTED BY JAMES DATE AUG. 9/68
 SOURCE OF DATA SECTION
 REMARKS

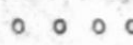
LITHOLOGY

	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
	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

1 of

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

Kee Scarp

? Hare Indian

FOSSILS ACCESSORY FEATURES	FORM. TOP & FOOTAGE	POROSITY	LITHOLOGY	TOPOGRAPHIC EXPRESSION	CRYSTAL OR GRAIN SIZE	SAMPLES	DESCRIPTION
	80						
	70						
	70					15	micrite with apparent grain support, lt. gy. Stromes, <u>Amphipora</u> , resistant. Massive, uneven bedding.
K, B	60					14	micrite with apparent grain support, lt. gy. Stromes, <u>Amphipora</u> , resistant, uneven, massive bedding.
K, B	60					13	micrite with apparent grain support, lt. gy. Stromes, <u>Cladopora</u> , resistant, uneven, blocky bedding.
K	50					12	micrite with apparent grain support, lt. gy. Stromes, <u>Cladopora</u> , resistant, uneven, blocky bedding.
K	50					11	micrite with apparent grain support, lt. gy. Stromes, <u>Cladopora</u> , resistant to moderate uneven - massive to stabby bedding.
K	40					10	micrite with 710% coarse fraction - micrite with apparent grain support, lt. grey, <u>Amphipora</u> , Stromes, <u>Cladopora</u> , resistant, uneven, massive, blocky bedding.
K	40					9	micrite with ~10% coarse fraction, lt. gy. <u>Amphipora</u> , Stromes, <u>Cladopora</u> , resistant, uneven, massive bedding.
K	30					8	micrite with ~10% coarse fraction, lt. gy. <u>Amphipora</u> , Stromes, <u>Cladopora</u> , resistant, uneven, massive bedding.
K, C, B	30					7	micrite with more than 10% coarse fraction - not grain supported, lt. gy. <u>Amphipora</u> , Stromes, <u>Cladopora</u> , resistant, uneven, massive.
K	20					6	micrite with apparent grain support, dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.
K, C, B	20					5	micrite with < 10% coarse fraction and micrite with apparent grain support, dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.
K, C, B	20					4	micrite with < 10% coarse fraction and micrite with apparent grain support, dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.
K, C, B	20					3	micrite with < 10% coarse fraction and micrite with apparent grain support, dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.
K, B	10					2	micrite with < 10% coarse fraction and micrite with apparent grain support, dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.
K	0					1	micrite with < 10% coarse fraction Dark grey, <u>Amphipora</u> , Stromes, moderately resistant, uneven, slabby to flaggy bedding.

SECTION KV-68 LAT 65° 18' N
Lsd. Sec. Twp Rge M LONG 129° 26' W
FORMATION KEE SCARP AGE U. MID. DEVONIAN
LOCALITY 1½ MILES WEST OF GAYNA RIVER
GRID AREA 106 H SW PHOTO A12758-54
MEASURED BY NAYLOR-CHAKANGAS DATE
PLOTTED BY JAMES DATE AUG. 9/68
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

[illegible]

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

2 of 2

SECTION KW-68 LAT 65° 18' N
 Lsd. Sec. Twp Rge M LONG 129° 27' W
 FORMATION KEE SCARP AGE MID. DEVONIAN
 LOCALITY WEST OF GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-54
 MEASURED BY TEBBUTT & JAMES DATE JULY 31/68
 PLOTTED BY CM JAMES DATE AUG. 7/68
 SOURCE OF DATA SECTION

REMARKS SECTION LOCATION - N. OF ROCKY LAKE
NEAR GAYNA RIVER. - TAIL OUT EDGE, WESTERNMOST
EXPOSURES.

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

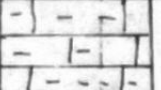
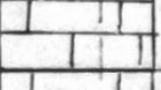
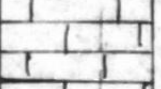
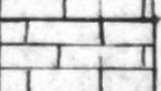
I	Cryptocrystalline
II	Microcrystalline
x	Fine Cryst. or Gran.
xx	Medium Cryst. or Gran.
xxx	Coarse Cryst. or Gran.
o	Finely Fragmental
oo	Medium Fragmental
ooo	Coarsely Fragmental

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

1 of

1.1 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
	50'						Upper contact of Kee Scarp with rusty-black papery to platy shales. - poor exposure of contact.
							- upper surface of carbonates might be dissected - not well enough exposed.
B.	40'					10f 9c	Micrite - abundant brachs. -
K						1	More argillaceous - from 35' to 40' weathers buff. - lenses of more calcareous material. Interlayered with argillaceous streaks. - abundant corals - micrite - Slabby to blocky bedding type.
K, S, B	30'					8c	Local concentrations of corals. red. gy. to med. bn. - resistant to weathering - uneven character - blocky type of bedding
K, S, B.						7c	2' band of cladopora - 2G- micrite, med. gy. to med. bn. gy. in color - resistant to weathering - uneven character blocky type.
	20'					6c	Calcarenite & fossils - medium gy. to medium bn. gy. - resistant to weathering - uneven character - blocky type - poorly sorted.
S, C B, Am						5c	Calcarenite & fossils - medium gy. to medium bn. gy. - resistant to weathering. - uneven character - blocky type. - poorly sorted.
O, C K, B	10'					4c.	Blocky to Slabby type. 40-60% fossils - few large corals brachs, few corals (variety) crinoid frags, etc. in muddy calcarenite. 2G - Buff grey to med. dk grey. Moderate resistance to weathering. Uneven to nodular character.
O, C K, B						x 3c	10-50% fossils. Calcarenite 2G - Buff grey - to medium- dark grey in color - Moderate resistance to weathering. Uneven to nodular character. Blocky to Slabby type.
C	0'					x 1c	- Shale (10%) & fine-grained calcarenite. (2G - lime mud with apparent grain support) - Buff grey to medium and dark grey in color.
						x 1c	- Moderate resistance to weathering. - uneven to nodular character - Slabby type.
							Base of Hara Indian not seen.

KEE SCARP
 HARA INDIAN
 ?

SECTION KX-68 LAT 65° 18' N
 Lsd. Sec. Twp Rge M LONG 129° 27' W
 FORMATION KEE SCARP AGE MID. DEVONIAN
 LOCALITY WEST OF GAYNA RIVER
 GRID AREA 106 H SW PHOTO A12758-54
 MEASURED BY TEBBUTT, JAMES DATE JULY 31/68
 PLOTTED BY JAMES DATE AUG. 8/68
 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
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

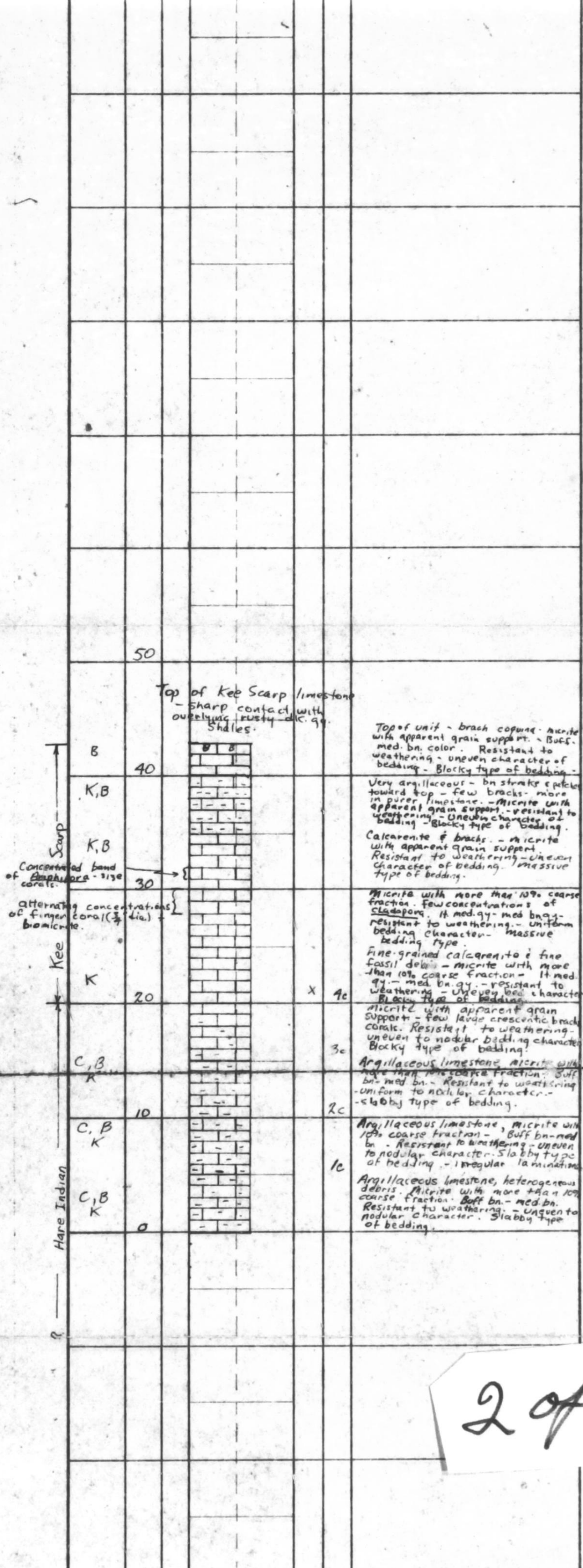
CRYSTAL OR GRAIN SIZE

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

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

1 of



SECTION KY-68 LAT 65°18' N
 Lsd. Sec. Twp Rge M LONG 129°27' W
 FORMATION KEE SCARP AGE U.-Mid. Devonian
 LOCALITY WEST OF GAYNA RIVER
 GRID AREA 106H SW PHOTO A12758-54
 MEASURED BY TEBBUTT & JAMES DATE JULY 31/68
 PLOTTED BY JAMES DATE AUG. 8/68
 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
	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
	30			Top of KEE SCARP - CONTACT - PROBABLY UNIFORM TO PLANAR.			
							Micrite with no apparent grain support. Butte to ...

KY

xx Medium Cryst. or Gran.

xxx Coarse Cryst. or Gran.

- o Finely Fragmental

4.4. Median Frequency

Coarsely Fragmental

KY

[illegible]

2 of 2

KZ-68

MEASURED BY. G.T. & C.J.

8' EXPOSURE OF UPPER FACES OF
KEE SCARP - APPEARS TO BE ALL
THAT REMAINING

1 C4F

- RE BRACH - COQUINA (SMALL
BRACHS), CRUMBLY, ARGILLACEOUS
 - ALSO, FEW V LARGE SPIRIFERS.
-

2 C4F

- SMALL EXPOSURE 100' W
OF ABOVE.
- 1' OF KEE SCARP - APPARENTLY
THE UPPERMOST BRACH MICRIT
FACES AGAIN -
- WESTWARD FROM HERE, TO AND
BEYOND SMALL GULLY, KEE SCARP
CONTINUES, AT LEAST 10' THICK,
SAME BRACH FACES ON TYPE OF
CORAL BEDS, AS IN KW & KX

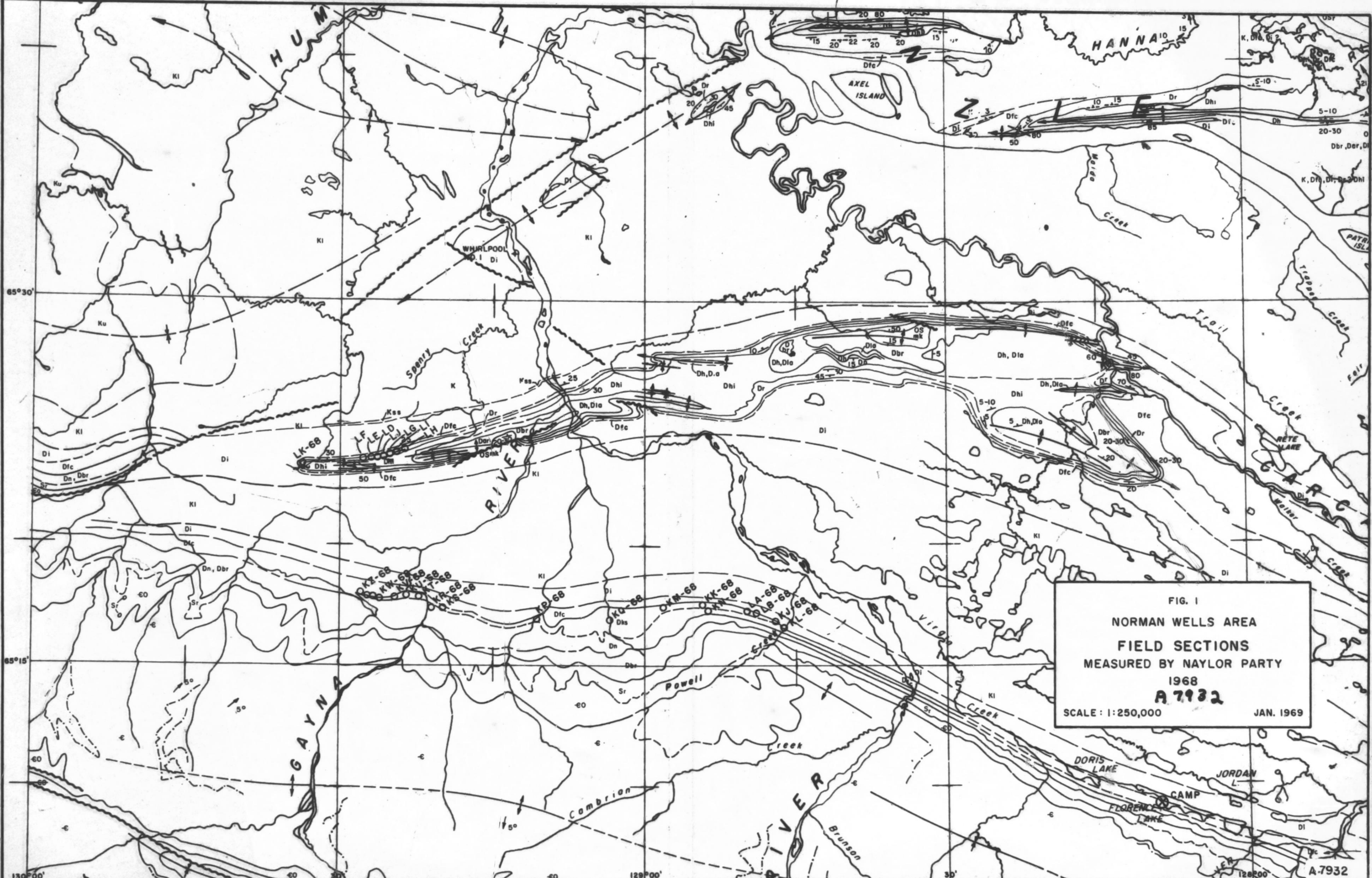


FIG. 1
NORMAN WELLS AREA
FIELD SECTIONS
MEASURED BY NAYLOR PARTY
1968
A 7932
SCALE: 1:250,000 JAN. 1969