# MAR 20040003: WEST CENTRAL

Received date: Apr 20, 2004

Public release date: Apr 22, 2005

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PERMIT TO PRACTICE Dahrouge Geological Consulting Ltd. Signature Date PERMIT NUMBER: P 67/93 The Association of Professional Engineers, Geologists and Geophysicists of Alberta

#### GRAYMONT WESTERN CANADA INC.

## 2003 EXPLORATION AND FIELDWORK WITHIN THE NORDEGG METALLIC AND INDUSTRIAL MINERALS PERMIT WEST-CENTRAL ALBERTA

Metallic and Industrial Mineral Permit 9396010038

Geographic Coordinates

52°23' N to 52°33' N 115°53' W to 116°14' W

NTS Sheets 83 B/5, C/8 and C/9

2004 04 16

by

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#### SUMMARY

During August and September, 2003 parts of Brazeau Range north of North Saskatchewan River, near Nordegg and within Metallic and Industrial Mineral (MAIM) Permit 9396010038, were explored for high-quality carbonate rocks. Paleozoic carbonate units were examined and measured at more than 39 locations along Brazeau Range between North Saskachewan River and Nordegg, and north of Nordegg. The 2003 exploration was a follow-up to previous exploration conducted along Brazeau Range during the summers of 1994, 1995 and 1997.

Carbonate units within the Devonian Mt. Hawk, Alexo and Palliser formations, and within the Carboniferous Banff and Rundle assemblages were examined and their stratigraphic thicknesses recorded. About 12¼ m of the Mount Hawk Formation was examined near Nordegg. In total, more than 78 m of the Palliser Formation and 41½ m of the Banff Assemblage was examined along Brazeau Range. In addition, more than 541 m of the Rundle Assemblage was examined at more than 37locations. In total approximately 672 m of strata was examined from more than 1446¼ m normal thickness measured.

From north to south massive, mottled, lime mudstone within the upper part of the Palliser Formation are transitional to vuggy, tan- to brown dolostone. Limestone units within the Banff Formation are generally less than several meters thick. The Rundle Assemblage includes various thicknesses of coarse-grained grainstone, wackestone and lime mudstone, with lesser packstone. Lime mudstones within Mount Hawk Formation and dolomites of the Alexo Formation were considered to be of too low quality for further consideration.

As a previous assessment report (Pana and Dahrouge, 1998) includes descriptions of geographic setting, history and previous investigations, most of that information is not repeated here. Throughout this report attitudes of bedding and other planar features are given as  $A^{\circ}/B^{\circ}$  SW, where  $A^{\circ}$  is the azimuth of the strike and  $B^{\circ}$  is the amount of dip in the direction indicated. A magnetic declination of  $18\frac{1}{2}^{\circ}$  east was used. Where bedding has been obscured by structure, stratigraphic thicknesses were calculated using orientations from adjacent units. Where more than one bedding orientation was measured, the mean orientation is used.

INTRODUCTION

During the summer of 2003, Dahrouge Geological Consulting Ltd. on behalf of Graymont Western Canada Inc. conducted exploration for high-quality carbonate lithotypes within west-central Alberta. This assessment report describes the exploration conducted within metallic and industrial minerals permit 9396010038, which encompasses the northern parts of Brazeau Range of the Alberta Foothills. It includes information on the geology and structure of more than 39 stratigraphic sections examined during August and September, 2003; as well as, an interpretation of the results. Peter Darbyshire, Vice President and General Manager for Graymont Western Canada Inc. authorized this work.

#### 3.

2.

#### **GEOGRAPHIC SETTING**

Metallic and industrial minerals permit 9396010038 encompasses the northern part of Brazeau Range near Nordegg, Alberta. Nordegg, with year-round facilities is located 79 km west of Rocky Mountain House on Highway 11 (Fig. 3.1).

Several creeks, mountains, and other features presently without names on published maps have been assigned informal names in this report to facilitate references to geographic locations.

Comm. Date	Expiry Date	Land Description (Tp-RW5)	Size (Ha)
Permit Area (F	ig. 4.1)		()
Jan. 17, 1996		<ul> <li>39-14W5 (Sections: 35NE,L7,L8)</li> <li>40-14W5 (Sections: 2SE,NW,L3,L5,L6,L10,L15; 10SE,NW,L3,L5,L6,L9,L10,L15; 11L3,L4; 15L3,L4,L5; 16NW,L5,L6,L7,L8,L9,L10,L15; 17L7,L8,L9,L16; 19N; 20NW,L1,L2,L7,L10,L15; 30L2,L3)</li> <li>40-15W5 (Sections: 24L9,L16; 25L1,L5,L6,L7,L8,L9S, L10S; 26L6P*,L7,L8)</li> <li>41-15W5 (Sections: 3L2,L3,L4P°,L5,L6,L7,L11,L12,L13; 4L9,L13,L14,L15,L16; 5L16; 7NE,L8,L14; 8S,L10,L11,L12; 9S,10L4,L5; 18S,L11,L12,L16; 19SE,L9,L10,L13,L14,L15; 30L4)</li> <li>41-16W5 (Sections: 13NW,L1,L6,L7,L8,L9,L10,L15; 23L1,L8,L9,L14,L15,L16; 24SW,N,L2,L7,L8; 25SW,L1,L2,L7,L11,L12; 26S,L9,L10,L11,L12; 27SE,L9,L10)</li> </ul>	3.21

TABLE 4.1 DESCRIPTION OF METALLIC AND INDUSTRIAL MINERALS PERMIT 9396010038

\* Part lying outside land use zone 8

Part lying outside land use zone 4

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## LOCATIONS EXAMINED IN 2003

Section Number	Location	Samples	Strat. Thick. (m)*	Measured Thick. (m)°
	Brazeau Range, North	of Nordegg		
2003-01	Northwest of North Knob	7	~13¼	~212¼
2003-02	Northeast of North Knob	5	12¾	293¾
2003-03	North Flank of North Knob	15	<29¼	~197¾
2003-04	North Flank of North Knob	20	~56¼	~56¼
2003-05	West Flank, North Knob	5	~7¾	10
2003-06	North Knob	4	~7¾	<24¼
2003-07	Southeast of North Knob	3	3	~7
Isolated	North Knob	3	41/2	41/2
2003-08	SSW of Little Shunda Mountain	8	~16¼	~50¾
2003-09	Flat Iron, South of Little Shunda Mountain	6	12¾	12¾
2003-10	Flat Iron, South of Little Shunda Mountain	9	15	16
2003-11	Flat Iron, South of Little Shunda Mountain	5	8	91⁄4
2003-12	South of Little Shunda Mountain	5	~12¾	~12¾
2003-13	Northwest Flank of Shunda Mountain	2	~41/2	~41/2
isolated	Shunda Mountain	3	~61⁄2	~6½
2003-14	West of Shunda Mountain	7	4	4
Isolated	Southwest of Shunda Mountain	1	~41/4	~4¼
	Brazeau Range, South	of Nordegg		
2003-15	Along Highway 16	. 4	121⁄4	241⁄4
2003-19	East of Nordegg Quarry	8	18½	20¼
2003-20	East of Nordegg Quarry	15	36¾	60¼
2003-21	East of Nordegg Quarry	9	~201⁄2	~21½
2003-22	South of Nordegg Quarry	14	32¾	323⁄4
2003-25	South of Storm Mountain	12	23¾	24¾
2003-26	South of Storm Mountain	11	251⁄2	25½
2003-28	South of Grizzly Creek	10	25½	331/2
2003-29	South of Grizzly Creek	17	39¼	43¼
3 2003-30	Near North End of Dipslope Mountain	13	29½	34
2003-31	Near North End of Dipslope Mountain	9	13¾	15¼
2003-32	Northwest of Peak of Dipslope Mountain	6	17¼	17¾
2003-33	West Flank of Dipslope Mountain	6	13½	13½
2003-34	Northwest of Peak of Dipslope Mountain	10	303⁄4	32¾
2003-35	Peak of Dipslope Mountain	7	17¾	243/4
2003-36	Southeast of Peak of Dipslope Mountain	7	18¾	18¾
2003-37	South of Peak of Dipslope Mountain	10	291⁄2	29½
2003-38	South of Peak of Dipslope Mountain	5	14	. 14
2003-39	South of Peak of Dipslope Mountain	7	~30	~30
Isolated	West Flank of Dipslope Mountain	3	~31/2	~31⁄2
	TOTALS		6721/2	14461/4

\* Stratigraphic thicknesses are examined thicknesses. \* Measured thicknesses are total investigated thicknesses, including covered and inaccessible intervals.

## PROPERTY, EXPLORATION AND EXPENDITURES

#### 4.1 METALLIC AND INDUSTRIAL MINERALS PERMIT 9396010038

In early 1996, Graymont Western Canada Inc. (nee: Continental Lime Ltd.) acquired metallic and industrial minerals (MAIM) permit 9396010038 to cover Paleozoic limestones near Nordegg, Alberta (Table 4.1 and Fig 4.1). The permit is divided into two parts by quarrying leases, and by Land Use Zones 4 and 8 as designated by the Alberta Eastern Slopes Policy (Alberta Forestry, Lands, and Wildlife, 1988).

The original area of MAIM permit 9396010038 totalled 8,716 hectares (Fig. 4.1). Based on exploration conducted between 1994 and 1997, the permit area has been reduced to 3,218 hectares (Pana and Dahrouge, 1998). Given the 2003 exploration expenditures of \$40,233.26 (Appendix 1, Section 4.3), the entirety of MAIM permit 9396010038 will be maintained (Table 4.1).

#### 4.2 2003 EXPLORATION

4.

Between August 21 and 30, and September 15 and 23, 2003 parts of Brazeau Range within MAIM Permit 9396010038 were examined by Dahrouge Geological Consulting Ltd. on behalf of Graymont Western Canada Inc. for high-quality carbonate rocks. Carbonate outcrops were examined at more than 39 locations (Appendix 2; Fig's.6.1 and 6.2; Table 4.2). A total of 291 samples representing about 672½ m of strata were collected from more than 1446¼ m of strata examined.

#### 4.3 EXPLORATION EXPENDITURES

Between 1994 and 1997 exploration expenditures not including G.S.T. totalled \$98,027.35, which resulted in an excess credit of \$24,264.29 allocated to the assessment period 'Years 7 and 8', for MAIM Permit 9396010038. Additional expenditures of \$40,233.26 were incurred in 2003 (Appendix 1); hence, total available assessment credits are \$64,497.55. These expenditures are allocated to MAIM permit 9396010038 as follows:

Assessment Period	Expiry	Required	Assigned
	Date	Expenditures	Expenditures
Years 7 and 8	2004-01-17	\$48,270	\$48,270
Years 9 and 10	2006-01-17	\$48,270	\$16,228
		Total:	\$64,498

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**REGIONAL GEOLOGY** 

In west-central Alberta, Paleozoic limestones are known to occur within the Middle Cambrian Eldon Formation, the Upper Devonian Mount Hawk Formation, the Upper Devonian Palliser Formation, the Upper Devonian to Lower Carboniferous Banff Assemblage and the Lower Carboniferous Rundle Assemblage (Table 5.1). The Palliser Formation at both Exshaw and Cadomin supplies limestone for the manufacture of cement (Holter, 1994).

Descriptions of the stratigraphy of the Palliser Formation, the Banff Assemblage and the Rundle Assemblage in Section 5.1 herein, are from a prior assessment report by Pana and Dahrouge (1998). A detailed review of the regional stratigraphy is provided by Stott and Aitken (1993), Mossop and Shetsen (1994), Halbertsma (1994), and Richards et al. (1994).

#### 5.1 STRATIGRAPHY

5.

#### 5.1.1 Mount Hawk Formation

Along Front Ranges of the Rocky Mountains, the Upper Devonian Fairholme Group was transgressivelly deposited on eroded Upper Cambrian strata, and consists of two carbonate reef formations, the Cairn and the overlying Southesk formations (Table 5.1). Both are replaced basinward by the laterally equivalent argillaceous beds of the Flume, Maligne, Perdrix, and Mount Hawk formations (Mountjoy et al., 1992).

The Upper Devonian Southesk Formation at its type section on Mount Dalhousie, near the confluence of Southesk and Brazeau rivers, is 161 m thick and divided into the Peechee, Grotto, and Arcs members (MacKenzie, 1966; Mountjoy et al., 1992). To the west it thins into the argillaceous dolomites and dolomitic shales of the Mount Hawk Formation.

Where Highway 11 crosses Brazeau Range, the upper part of the Mount Hawk Formation, consists of cryptocrystalline, black, medium-bedded, argillaceous limestone (Douglas, 1956).

#### 5.1.2 Palliser Formation

In west-central Alberta, the Lower to Middle Famennian Palliser Formation consists mainly of outer shelf and basinal carbonates of the Sassenach Basin (Halbertsma, 1994). The Palliser Formation is divisible into the Morro and overlying Costigan members, which are separated by an unconformity. The Morro Member comprises a lithologic suite dominated by carbonates with significant lateral facies variations. The Costigan Member consists of open-marine fossiliferous limestones and shales, with local evaporitic sedimentation. Within the Foothills and Front Ranges

5

of Alberta, limestones of the Palliser Formation vary from less than 180 m to more than 270 m in thickness (Holter, 1976).

The Palliser Formation is overlain by shales of the Exhaw Formation, and siliciclastics and carbonates of the Banff Formation.

#### TABLE 5.1 GENERALIZED PALEOZOIC STRATIGRAPHY OF FOOTHILLS AND FRONT RANGES, WEST-CENTRAL ALBERTA\*

System or Subsystem	Stratigraphic Unit				
	Assemblage Group	– Form	ation		
		S	N		
		Mount Head			
	Rundle		Turner Valley		
	Assemblage	<sup>1</sup> Livingstone	Shunda		
Lower Carboniferous			Pekisko		
	Banff Assemblage	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		
		<sup>1</sup> Palliser			
		Alexo			
Upper Devonian	~ Fairholme	Southesk	Mount Hawk		
	Group	Cairn			
~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		
		Eldon			
Cambrian		Stephen			
		Cathedral			

\*Compiled from MacKenzie 1969, Richards et al. 1994, Switzer et al., 1994., and Holter, 1994.

<sup>°</sup> Fairholme Group of MacKenzie (1969) is partly equivalent to the Woodbend Group (Switzer et al., 1994). <sup>1</sup> Current limestone production (*from* Holter, 1994)

#### 5.1.3 Banff Assemblage

In west-central Alberta, the Exshaw, Banff and Yohin formations comprise the Banff Assemblage (Richards et al. 1994). The Upper Famennian to Lowermost Tournaisian Exshaw Formation is dominated by fine-grained siliciclastics deposited in euxinic basin to shallow-neritic environment. In general, it is unconformably overlain by the Lower to Upper Tournaisian Banff Formation, which is a heterogeneous association of carbonates and fine-grained siliciclastics deposited on poorly

differentiated carbonate platforms. Westward, the uppermost Banff Formation grades laterally into the Rundle Assemblage.

#### 5.1.4 Rundle Assemblage

The Lower Carboniferous Rundle Assemblage extends from MacKenzie Mountains in the Arctic south through the Peace River Embayment to southeastern British Columbia. In west-central Alberta, it comprises shallow-marine platform and ramp carbonates which prograded westward over deeper water shales and carbonates of the Banff Assemblage. The lower Rundle Assemblage is subdivided into the transgressive carbonate Pekisko Formation, and two regressive successions of restricted-marine carbonates and subordinate anhydrite assigned to the Shunda and Turner Valley formations (Richards et al. 1994). In southern Alberta the Pekisko grades laterally into the uppermost Banff Formation. The Turner Valley Formation extends from east-central British Columbia to southwest Alberta. According to Richards et al. (1994), the Turner Valley Formation thickens to the southwest and for most of its length is 50 m to 120 m thick. The type section near Turner Valley is 152 m thick and divisible into four beds.

Earlier work by Douglas (1958), and MacQueen and Bamber (1968) indicate that the eastern peritidal sequences of the uppermost Pekisko, Shunda and lower Turner Valley grade south and southwestward into the more open-marine sequence of the Livingstone Formation (Table 5.1).

The upper Rundle Assemblage includes the transgressive Mount Head Formation.

#### 5.2 STRUCTURE

In Front Ranges and Foothills of west-central Alberta, Paleozoic and Mesozoic strata have been repeated along several major thrust faults. Displacements along these faults are interpreted to be tens of kilometres. Within individual thrust sheets regional-scale folds exhibit a spatial relation to their leading edges. Near Nordegg, the main structural discontinuity is the northwest to southeast trending Brazeau Thrust. The leading edge of the thrust sheet is folded into the asymmetrical to recumbent Brazeau Anticline.

#### PERMIT GEOLOGY

#### 6.1 MEASURED SECTIONS

6.

Carbonate lithologies of the Mount Hawk Formation, Palliser Formation, Banff Assemblage and Rundle Assemblage were examined and measured along Brazeau Range, north of North Saskatchewan River (Fig's. 6.1 and 6.2). During August and September, 2003, 291 discrete intervals were examined at the locations listed in Table 4.2, by chipping outcrops perpendicular to bedding. Where bedding could not be identified, chips were taken in directions appropriate to topography with stratigraphic thickness deduced from other measurements where possible (Appendix 2). A solution of 5% HCI was used to assess the quality of the limestone from the measured sections in the field. The 291 intervals represent a stratigraphic thickness of about 672½ m and were collected from an investigated stratigraphic thickness that exceeds 1446¼ m.

#### 6.2 STRATIGRAPHY

Where Highway 11 crosses Brazeau Range, about 12¼ m of the upper part of the Mount Hawk Formation of the Fairholme Group was examined (Appendix 2). It consists of black, cryptocrystalline lime mudstone with argillaceous partings. Some beds are mottled brownish-black with a nodular appearance. It is overlain by several meters of argillaceous limestone and dolomitic limestone of attributed to the Alexo Formation.

The Palliser Formation is exposed within the core of Brazeau Anticline about 10 to 12 km northwesterly from Highway 11. Where examined, the upper most 30 m of the Palliser Formation consist of mottled, microcrystalline, lime mudstone to wackestone; with some interbeds of finely crystalline dolomite. Further south it is exposed along the Highway 11 road cut, just south of Coliseum Mountain. Along the southern part of Brazeau Range the upper parts of the Palliser Formation appear increasingly dolomitic.

According to Pana and Dahrouge (1998) the overlying Banff Formation consists of a lower recessive unit of calcareous shales and cherty argillaceous limestone 83 m thick at Shunda Creek Gap, and an upper resistant unit of fine-grained, medium-bedded, limestone and dolomite with crinoid remnants that is 91 m thick on Coliseum Mountain (Douglas, 1956; Fig. 7.1).

According to Erdman (1950, p. 11) the overlying Rundle Assemblage

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Previously measured thicknesses of the lower part of the Rundle Assemblage (Fig's. 6.1 and 6.2) from Brazeau Range follow :

Location	Reference	Thick. (m)
Shunda Mountain	Douglas (1958)	321/2
Nordegg Lime Quarry*	Matthews (1960)°	~50¾
Dizzy Creek*	Erdman (1950)	51¾

\* South of North Saskatchewan River

*cf* Holter (1976)

At Brazeau Range the lower part of the Rundle Assemblage consists of light- to medium-grey and medium-greyish-brown, fine- to medium-grained, thick-bedded to massive, lime mudstone, wackestone and grainstone (Appendix 2). Examined thicknesses of limestone units ranged from less than a few meters up to about 40 m; they are partly determined by the present erosional surface. Overlying units generally consists of thin-bedded, microcrystalline, dolomite and dolomitic breccias.

## 6.2 STRUCTURE

As previously indicated by Pana and Dahrouge (1998; p. 11)

"North of Nordegg the main structural elements within Brazeau Range include Brazeau Anticline, and Coliseum Fault; which is a splay from the Brazeau Thrust (Fig's. 6.1 and 6.2). North of Highway 11 the asymmetrical Brazeau Anticline trends northwesterly; one limb dips gently to moderately to the southwest and the other steeply northeast to overturned. Local faults and folds are present on both limbs. ...

The main structural elements southeast of Nordegg are the same as those north of Highway 11, namely Brazeau Anticline and splays from Brazeau Thrust. Although mostly asymmetrical near Storm Mountain (Fig's. 6.1 and 6.2), parts of the Brazeau Anticline are symmetrical with dip slopes of 23° to 38° in the southwest limb that decrease to the west. Steep dip-slopes are present at lower elevations in the northeast limb. Erdman (1950) mapped a second order northwest-trending syncline and a northwest-trending anticline within the northeast limb. Southeasterly to North Saskatchewan River the southwest limb forms dip slopes with moderate dips at higher elevations, particularly on Dipslope Mountain, and gentler dips at lower elevations."

#### CONCLUSIONS

Within MAIM Permit 9301010011, exposures of the Palliser Formation, Mt. Hawk Formation, Banff Assemblage and Rundle Assemblage were examined along the northern part of Brazeau Range, near Nordegg, Alberta. A total of 291 discrete intervals were measured and described in detail, representing approximately 672<sup>1</sup>/<sub>2</sub> m of stratigraphy out of a total investigated thickness of more than 1446<sup>1</sup>/<sub>4</sub> m.

Carbonate intervals within the upper parts of the Mt. Hawk and Palliser formations were examined at several locations at Brazeau Range. The upper 16¼ m of the Devonian Mt. Hawk formation generally consist of argillaceous, lime mustone. The upper part of the Palliser Formation consists of massive mottled lime mudstones north of Highway 11, that are increasingly dolomitic to the south.

At Brazeau Range the lower part of the Rundle Assemblage consists of interbeds of lime mudstone, wackestone and grainstone. Locally, rapid facies changes result in interbeds of variably dolomitic limestone and dolomite.



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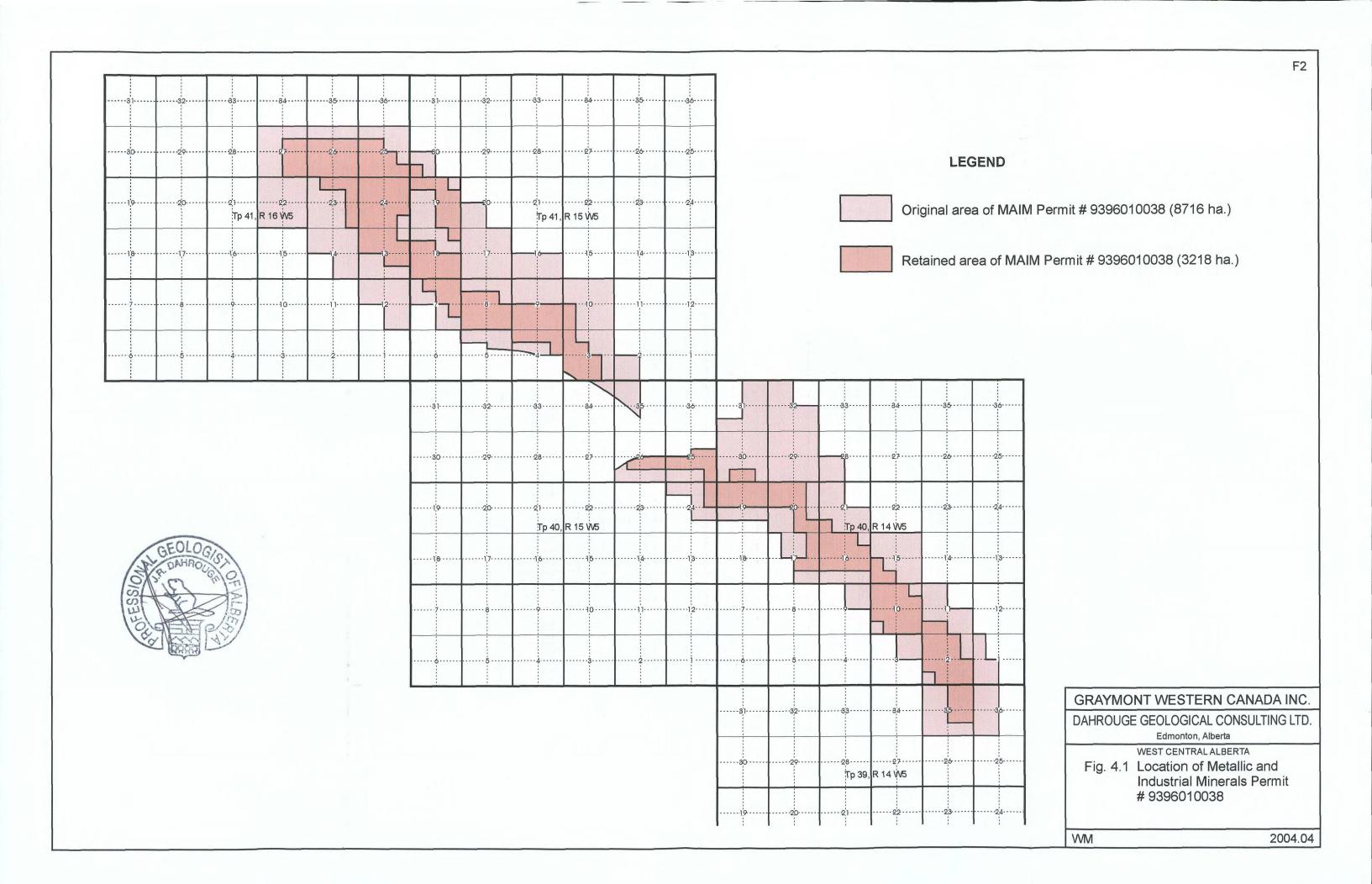
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## APPENDIX 1: ITEMIZED COST STATEMENT FOR METALLIC AND INDUSTRIAL MINERALS PERMIT 9396010038 OF GRAYMONT WESTERN CANADA INC.

## a) <u>Personnel</u>

	ouge, B.Sc	c., P.Geol. (Geologist)		
15.0	days	field work and travel between August 21 to 30, Sept. 15, and Sept. 20 to 23, 2003		
6.3	days	preparations for field, organizing, supervising and preparing report		
21.3	days		\$	
W. McG	uire, (Drat	ftsman, Field Assistant)		
5.4	days	compiling field data, drafting, preparing figures and maps		
5.4	days		\$	
	•	Geologist)		
14.0	days	field work and travel between August 21 to 30, Sept. 15, and Sept. 20 to 22, 2003		
1.3	days	compiling field data, determine specific gravities, prepare figures, assist with report writing		
15.3	days		\$	
R. Wolba	aum. B.Sc	c. (Geologist)		
15.0	days	field work and travel between August 21 to 30, Sept. 15, and Sept. 20 to 23, 2003		
5.3	days	organize and ship samples		
20.3	days		\$	
S. Robso	on, B.Sc. (	(Field Assistant)		
15.0	days	field work and travel between August 21 to 30, Sept. 15, and Sept. 20 to 23, 2003		
2.8	days	preparations for field		
17.8	days		\$	
R. Vega,	(Assistan	it)		
42.5	days	data entry		
42.5	days		\$	• <u>,</u>
				\$ 26,677.2
		modation @ \$48.761322 accommodations (motel)	¢ 0.070 0	0
	-	<ul> <li>              \u00e4 \u00e4 48.761322 accommodations (motel)      </li> <li>             \u00e4 41.580186 groceries and meals         </li> </ul>	\$ 2,876.9 \$ 2,453.2	
00 11	an days	W WHILE WE STOULING AND MECAS	φ 2,453.2	<u>3</u> \$ 5,330.1
				ψ 0,000.

## **APPENDIX 1: CONTINUED**

c) <u>Transportation</u>	13			
ATV:	Quad and Trailer Rental (🞾 days @ \$147.125000)	\$	1,912.63	
	Quad Rental (12 days @ \$135.355000)	\$	1,759.62	
Helicopter:	Helicopter Charter	\$	2,087.53	
Vehicles:	Truck Rental 1855 km @ \$0.385000	\$	714.18	
	4x4 Sports Utility Truck 2298 km @ \$0.495000	\$	1,137.51	
	Fuel	\$	40.02	
				\$ 7,651.47
d) <u>Instrument Rental</u>	n/a			
e) <u>Drilling</u>	n/a			
f) <u>Analyses</u>	n/a			
g) <u>Report</u>	Reproduction and assembly	\$	79.75	
				\$ 79.75
h) <u>Other</u>				
	Base map(s) and map reproductions	\$	470.80	
	Courier, postage and shipping	\$	-	
	Field supplies	\$ \$	-	
	Long distance telephone	\$	23.84	
			· · · · · · · · · · · · · · · · · · ·	\$ 494.64
<u>Total</u>				\$ 40,233.26

I, Jody R. Dahrouge, hereby certify that the costs outlined above were expended for the assessment of metallic and industrial minerals permits <u>9396010038</u>.

	dod - R Dahrouge, B.Sc., Sp.C., P.Geol.	
M	Commissioner for Oaths	
N	JACK LAMOUREUX COMMISSIONER FOR OATHS COMMISSION EXPIRES MAY 21, 2005	

#### DESCRIPTIONS OF THE 2003 STRATIGRAPHIC SECTIONS WITHIN MAIM PERMIT 9396010038 NEAR NORDEGG

Note: Stratigraphic thicknesses are based on measured attitudes of bedding, as listed below, with appropriate interpolations. Attitudes are strike and dip. UTM coordinates are NAD83. Examined intervals are listed in order from stratigraphic top to bottom.

Abbreviations: Mt. Hawk - Mount Hawk Formation; AL - Alexo Formation; Pal - Palliser Formation;

Exshaw - Exshaw Formation; Banff - Banff Assemblage; and RA - Rundle Assemblage.

Interval	Unit	Strat.	Descr	iption
Number		Thick. (m)		

Section 2	2003-1; About 5	00 m Nor	thwest of North Knob (UTM 554189, 5823350)
17221	RA	1/2	Dolostone, brown-tan weathered and fresh, uniform, some rusty stain along fractures; some secodary
-	RA	81	white carbonate veinlets/stringers covered
- 17126	RA	11/2	Packstone, medium-grey weathered and fresh, medium- to coarse-grained, crinoids
-	Banff	75	covered
17128	Banff	<2¼	Mudstone, light-grey to tan weathered, black fresh, microcrystalline, sugary texture, black chert, calcite
			veins, grey dolostone nodules, attitude of beds 278º/88º E
-	Banff	32	covered
17127	Banff	6	<u>Mudstone</u> , black weathered and fresh, cryptocrystalline to microcrystaline, beds up to 2cm, interbedded chert (black) and chert nodules, calcite veining, attitude of beds 278°/88° E
-	Banff	11	covered
17130	Banff	1	Wackestone, grey to white-tan weathered, medium-grey fresh, microcrystalline to fine-grained, mottled, calcite stringers
17129	Banff	1	<u>Mudstone</u> , light-grey weathered, medium-grey fresh, cryptocrystalline, sugary texture, massive, calcite stringers
14527	Banff	1	Mudstone, dark- to medium-grey weathered, medium-grey fresh, sparse crinoids, peloids, and gastropods, nodules up to 2 cm, calcite veins
			theast of North Knob
17025	RA .	-3/4	<u>Dolostone</u> , grey-brown weathered and fresh, cryptocrystalline, pyro-bitumen staining interstitial and along cleavage planes
-	RA	92	covered
17024	RA	~1¾	Packstone, medium-grey weathered and fresh, fine-grained, peloids, crinoids
-	RA	431⁄2	covered
17023	RA	~5¼	Wackestone, dark-grey weathered and fresh, fine-grained, attitude of beds 098°/82° S
-	RA-Banff	69½	covered
17022	Banff	5	Wackestone, dark-grey-brown weathered and fresh, microcrystalline, silty, interbedded nodular black chert, attitude of beds 094°/85° S
-	Banff	76	covered
17016	Banff	~1¼	Packstone, dark-grey weathered, dark-grey to black fresh, fine-grained, white sparry calcite veining, zones of brachiopods and crinoids, attitude of beds 096°/70° S
Section 2	2003-3; North Fl	ank of N	orth Knob
17228	RA	~13⁄4	Wackestone, medium-grey weathered, light-grey fresh, medium to coarse-grained, scattered crinoid
			debris, beds <1/4-1/2 m, attitude of beds 117°/32° W
-	RA	~3⁄4	covered
17227	Banff	2	Lime Mudstone, brown to rusty-brown weathered, dark-grey fresh, fine-grained, platy, various fossils:
			bivalves crinoid debris, $\frac{1}{4}$ m of tan, weathered dolomite below, attitude of beds $110^{\circ}/32^{\circ}$ W
-	Banff	~135	covered
14526	Banff	2	Wackestone, dark-grey weathered, dark-grey-brown fresh, fine-grained, peloids and crinoids
-	Banff-Exshaw	~33	covered
14525	Pal	3	Grainstone, orange-grey-white weathered, light-grey fresh, fine-grained, tan veinlets, large brachiopods, few crinoids, peloids, pyrobitumen
14524	Pal	2	Dolomitic mudstone, tan-grey weathered, tan fresh, fine-grained, thin slaty cleavage
14523	Pal	2	Mudstone, dark-grey-brown weathered and fresh, fine-grained, tan veinlets throughout, crumbly appeareance, massive
14522	Pal	2	<u>Mudstone</u> , dark-grey-brown weathered and fresh, fine-grained, tan veinlets throughout, crumbly appeareance, massive

Interval	Unit	Strat.	Description
Number		Thick. (m)	
Section 200			the later of the second second second second second and
14521	Pal	2	<u>Mudstone</u> , dark-grey-buff weathered, dark-grey-brown fresh, fine-grained, sparse crinoid and brachiopod debns, sparry calcite, attitude of beds 111°/52° SW
14520	Pal	2	Dolomitic Mudstone, grey-tan weathered, light-grey to buff fresh, very fine to fine-grained
14519	Pal	2	Mudstone, buff weathered, dark- to medium-grey fresh, fine-grained, sparce crinoid debris
14514	Pal	2¾	<u>Mudstone</u> , brown-grey fresh, medium-grey weathered with buff patches, very fine to fine-grained, well bedded
14515	Pal	2	Mudstone, as above
14516	Pal	11/2	<u>Mudstone</u> , as above
14517	Pal	1	<u>Mudstone</u> , grey-brown to black weathered and fresh, fine- to very fine grained, calcite veining, interbedded, attitude of beds 110°/25° SW
14518	Pal	1	Mudstone, grey-buff weathered, dark-grey fresh, fine- to very fine grained
Section 200	3-4A: Nor	th Side of No	orth Knob
17312	Pal	4	Lime Mudstone, light-grey weathered and fresh, very fine grained, massive, some satined vugs
17311	Pal	21⁄2	<u>Mudstone</u> , light-grey to medium-tan-grey weathered, grey- to light-brownish-grey fresh, very fine grained, beds 1m, few wavy laminations, some dark-grey interbeds
17310	Pal	21/2	Mudstone, light-grey to medium-tan-grey weathered, grey- to light-brownish-grey fresh, very fine
		_/-	grained, beds 1m, few wavy laminations, some dark-grey interbeds, attitude of beds 112°/25° W
17309	Pal	2	<u>Dolomitic Limestone</u> , tan-grey weathered, very light grey tan fresh, very fine grained, beds less than $\frac{1}{2}$ m, wavy laminations
Section 20	03-4B; Nor	th Side of No	orth Knob (Partly equivalent to 2003-4B)
-	Pal	4	inaccessible, not sampled
17314	Pal	3	Lime Mudstone, light-grey weathered, light-brownish-grey fresh, very fine grained, some secondary white calcite, some vugs with staining, massive (Possibly equivalent to 17312)
17313	Pal	3	Lime Mudstone, light-grey weathered, light-brownish-grey fresh, very fine grained, beds ½ - ¾ m (Possibly equivalent to 17311)
Section 20	03-4C: Nor	th Side of N	orth Knoh
17021	Pal	1/2	Wackestone, dark-grey weathered and fresh, abundant sparry calcite veins, light-brown on cleavage
			surfaces
-	Pal	(?)	covered
17020	Pal	2	Wackestone, black-grey weathered, dark-grey-brown fresh, fine-grained, slightly mottled, calcite veining, wavy laminations, some brachiopods, vugs up to 1½ cm, calcite filled
17019	Pai	~41/4	Wackestone, black-grey weathered, dark-grey-brown fresh, fine-grained, slightly mottled, calcite veining, wavy laminations, few brachiopods
-	Pal	(?)	covered
17018	Pal	1½	Wackestone, black-grey weathered, dark-grey-brown fresh, fine-grained, slightly mottled, calcite veining, wavy laminations
17017	Pal	3	Wackestone, black-grey weathered, dark-grey-brown fresh, fine-grained, slightly mottled, calcite veining, attitude of beds 120°/18° SW
Section 20	03-4D• No	rth Side of N	orth Knob
-	Exshaw	float	Shale, black and brownish-black
17323	Pal	11/2	Lime Mudstone, light-grey weathered, dark-grey fresh with some brownish-grey mottles, micritic, some
			rusty-brown material in fractures, very thick bedded to massive, attitude of beds $090^{\circ}/37^{\circ}$ W
17322	Pal	41/2	Lime Mudstone, as above
17321 17320	Pal Pal	~3¼ 3	Lime Mudstone, as above, attitude of beds 123°/32° W Limestone, light-grey weathered, dark-grey fresh with some brownish-grey mottles, generally very thic
			bedded to massive, some secondary white calcite blebs and stringers Limestone, mottled dark-grey weathered, medium-brown fresh, interbedded with medium-brown
17319	Pal	~23⁄4	microcrystalline Dolomitic Limestone, beds 40 cm - 1/4 m, vuggy
17318	Pal	11/2	Lime Mudstone, light-grey weathered, light-brownish-grey fresh, micritic, massive, brownish mottles,

Interval Number	Unit	Strat. Thick. (m)	Description
Section 200	3-4D; cont	inued	
17317	Pal	4	Lime Mudstone, as above
17316	Pal	41⁄2	Lime Mudstone, brown-grey weathered with mottles, dark-grey fresh, some secondary white calcite stringers, beds 1/4-1/2 m
17315	Pal	3	Lime Mudstone, light-brownish-grey weathered, dark-grey fresh, very fine grained, beds <1/4-1/2 m
Section 200	3-5; West	Flank of Nor	th Knob
17226	RA	1	<u>Grainstone</u> , light-grey weathered, medium-grey fresh, coarse-grained, rare belmenite, bivalve, scattered crinoid debris and pellets; massive (same stratigraphic interval as 17225)
17225	RA	1	<u>Crinoidal Grainstone</u> , medium-grey weathered, medium-grey to brownish-grey fresh, coarse-grained, massive, scattered outcrops, atttidue of beds 125°/32°W
17224	RA	4	Lime Mudstone to Wackestone, light-grey weathered, dark-grey to brownish-grey fresh, fine-grained, few scattered out crops only, scattered pellets and crinoids
17223	RA	~1¼	Lime Mudstone, light-grey weathered, dark-grey to brownish-grey fresh, fine-grained, beds <1/2 m, rare crinoid oscicle
-	RA	~2¼	covered
17222	Banff	1/2	<u>Lime Mudstone</u> , light-brown-grey weathered, dark-grey fresh, very fine to fine-grained, fissile, bivalves to 2-4cm, across, probably silty, attitude of beds 120°/32°W
Section 200	3-6; Souti	west Facing	J Dip Slope of North Knob
17229	RA	~3	<u>Wackestone</u> , light-grey weathered, medium- to dark-grey fresh, fine- to medium-grained, few pellets mostly near top, beds $\frac{1}{2}$ m
-	RA	~13½	covered
17230	RA	~3	Wackestone, light-grey weathered and fresh, medium-grained, attitude of beds 121°/39° W, Banff Fm
· .		·	below - Lime Mudstone, brown to tan-grey weathered, dark-grey fresh, fine-grained, attitude of beds 105°/40° W
-	RA	~1/4	covered
17232	RA	-3/4	<u>Wackestone</u> , light-grey weathered and fresh, medium- to ccarse-grained, some bivalves, pellets, crinoid debris
17231	RA	~1¼	Wackestone, light-grey weathered and fresh, medium- to ccarse-grained, scattered rubbly out crops,
			some bivalves, pellets, crinoid debris, attitude of beds 122°/29° SW
-	RA	~1/2	covered
-	Banff	2	Lime Mudstone, brown to tan-grey weathered, dark-grey fresh, platy, fossiliferous, argillaceous, attitude of beds 105°/40°SW
Section 200	3-7; Soutl	heast Ridge (	of North Knob (UTM 555157, 5822594)
17326	RA	1	Lime Mudstone, light-brownish-grey weathered, medium-brownish-grey fresh, ocsicles and scattered pellets to 2mm; top ¼ m Pelletal Grainstone, light-grey with grains 2-3mm, crumbly, deeply weathered
-	RA	~2¼	covered
17325	RA	~3/4	Lime Mudstone, light-brownish-grey weathered, medium-brownish-grey fresh, with ocsicles and scattered pellets to 2mm
-	RA	~1¾	covered
17324	RA	~1¼	Crinoidal Grainstone, light-grey weathered and fresh, attitude of beds 133°/31° W
		North Knob	
17327	(?)	-	silicified rocks; possiblly volcanic, very odd as location appears to be outcrop
17328	RA	3	Lime Mudstone, grey weathered, medium-brownish-grey fresh, micritic to very fine grained, generally massive
17329	RA	1½	<u>Crinoidal Grainstone</u> , tan to light-grey weathered surface, grains to 2mm, beds 1m, attitude of beds 167°/14° W

Interval Number	Unit	Strat. Thick. (m)	Description
Section 20	2 2 Sadd	a about 900	0 m SSW of Peak of Little Shunda Mountain (UTM 556246, 5822333)
17013	RA	~4 <sup>3</sup> ⁄4	Wackestone, grey weathered, medium-grey fresh, fine- to medium-grained, abundant corals bottom 1/2 m of section
17012	RA	~43⁄4	Wackestone, grey weathered, medium-grey fresh, fine- to medium-grained, attitude of beds 123°/19° SW
	RA-Banff	~7¾	covered
17011	Banff	<1¼	Wackestone, grey-brown weathered, dark-grey fresh, microcrystalline to fine-grained, fine-buff wavy veinlets, attitude of beds 142°/15° SW
-	Banff	~12½	covered
17010	Banff	~1/4	Mudstone, brown weathered, dark-brown-black fresh, microcrystalline, attitude of beds 113°/16° S
-	Banff	~6¾	covered
1700 <del>9</del>	Banff	1	<u>Crinoidal Grainstone</u> , dark-grey weathered and fresh, coarse-grained, some thin beds of medium- grained <u>Packstone</u> , some light-grey chert
-	Banff	~71/2	covered interval spans the subcrop and grab samples of 17007, 17008
17008	Banff	-3/4	Packstone, white-beige weathered, light-grey fresh, fine- to medium-grained, chert nodules, brachiopods and crinoids, crumbly thin beds, subcrop, attitude of beds 100°/12° S
17007	Banff	~1½	Mudstone, buff-brown weathered, dark-brown fresh, microcrystalline
17006	Banff	~2¼	Lime Mudstone, top part: brown weathered and fresh, very fine grained; middle part: medium-grey weathered and fresh, vuggy; bottom part: dark-grey weathered and fresh, cryptocrystalline to microcrystalline, attitude of beds 123°/13° SW
Section 20	03-9; North	ern Part of	Flat Iron on South Flank of Little Shunda Mountain (UTM 556422, 5822337)
17220	RA	13⁄4	<u>Grainstone</u> , grey weathered and fresh, medium- to coarse-grained, beds <¼ m, some brownish weathered (dolomitic?) mottles
17219	RA	21/2	Wackestone with few interbeds of Grainstone, grey weathered, light-brownish-grey fresh, massive, attitude of beds 137°/17° W
17218	RA	3	Wackestone and Lime Mudstone, interbedded, grey weathered, medium-brownish-grey fresh, fine- to medium-grained, massive
17217	RA	2	Wackestone to Grainstone, interbedded, light-grey weathered, medium to brownish-grey fresh, medium grained, generally massive, few stylolites, scattered crinoids debris
17216	Banff	2	Wackestone and Lime Mudstone, interbedded, grey weathered, light brownish-grey fresh, fine-grained, abundant rugose corals, limemud beds 1/2-3/4 m, attitude of beds 120°/18° W
17215	Banff	1½	Lime Mudstone, grey weathered, medium-brownish-grey fresh, fine-grained, grades up to Wackestone, partly recessive
Section 20	03-10: Eas	t Edae of F	lat Iron on South Flank of Little Shunda Mountain (UTM 556478, 5822207)
17214			Lime Mudstone to Wackestone, grey-brownish weathered, light-grey fresh, fine-grained, abundant brown mottling, secondary dark sparry calcite-dolomite, some crinoid debris
17213	RA	2	<u>Wackestone</u> , grey weathered, greyish-brown fresh, medium-grained, top ¼ m is <u>Wackestone to</u> <u>Grainstone</u> , with crinoid osscicles, few scatlered rugose corals
17212	RA	1½	Wackestone to Lime Mudstone, grey weathered, greyish-brown fresh, medium-grained, few thin intervals of calc-grainstone, beds 10-25 cm
17211	RA	21⁄2	Wackestone, grey weathered, greyish-brown fresh, medium-grained, few thin intervals of grainstone, beds 10-25 cm, attitude of beds 140°/16° W
17210	RA	2	Lime Mud/Wackestone, grey weathered and fresh, fine- to coarse-grained, Mudstone grades up to Wackstone-Grainstone, beds less than ¼ m, scatlered rugose corals
17209	RA	-1/4	Wackestone, as above, outcrop is about 50 per cent covered, attitude of beds 150°/21° W
17208	RA	1½	Wackestone, brown weathered, very light grey fresh, medium-grained, vuggy, rugose coral marker as per sec. 95-1, beds ¼m, abundant fossils, rugose and colonial corals, abundant crinoid debris upward
17207	RA RA	½ 1	Wackestone to Grainstone, brownish-grey weathered, medium-grey fresh, crinoids covered
- 17206	RA	3½	Lime Mudstone to Wackestone, grey weathered, medium-brownish-grey fresh, few interbeds (<½m) of calc-grainstone (medium-grained), few crinoid oscicles, rugose corals and other fossile debris, beds ½ ½m, attitude of beds 115°/15° S. *Sample 17205 is about ½ m stratigraphically above 17206

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## **APPENDIX 2:**

Interval Number	Unit	Strat. Thick. (m)	Description
			Flat Iron on South Flank of Little Shunda Mountain (556436, 5822042)
17205	RA	1¼	Lime Mudstone to Wackestone, grey weathered, light-grey fresh, fine- to very fine grained, beds ~1/m,
			few scattered crinoid oscicles
47004	RA RA	~1¼	covered <u>Grainstone</u> , light-grey weathered, medium-grey fresh, coarse-grained, beds <1/4m, top 3/4m with crinoids,
17204	KA	3	bryozoans, rugose corals, attitude of beds 161°/14°. Sample 17204 stratigraphically equivalent to samples 17202-3, and lower 3⁄4 m of 17201
17203	RA	1	Lime Mudstone to Wackestone, brownish-grey weathered, dark-grey fresh, very fine grained, few rugose corals, beds to ¼m, uppermost part of section is peloidal
17202	RA	1	<u>Grainstone</u> , medium-grey weathered and fresh, coarse-grained, abundant crinoid debris, beds 1-25cm, some sections crumbly brown sucrosic, deeply weathered, fetid odor, attitude of beds 161°/26° W
17201	RA	~1¾	<u>Grainstone</u> , brownish-grey weathered, medium-brownish-grey fresh, coarse-grained, rare vugs with secondary white calcite, crinoid oscicles, scattered ruguse corals, beds <¼m, some patches of brown mottling in upper ¼ m, attitude of beds 125°/05° SW
Section 200	03-12; Abou	ut 1000 m S	outh of Little Shunda (UTM 556307, 5822274)
17004	RA	~2¾	<u>Packstone</u> , grey weathered, dark-grey-brown fresh, fine- to medium-grained, attitude of beds 120°/18° SW
17005	RA	~2¾	Packstone, grey-brown weathered, dark-grey fresh, fine- to medium-grained, increasing fossiles at base of section, abundant rugose corals, crinoids and chaincorals
17001	RA	21/2	Grainstone, buff weathered, dark-grey fresh, fine- to medium-grained, massive beds
17002	RA	3	Grainstone, as above, attitude of beds 142°/18° SW
17003	RA	-13/4	Packstone, grey-brown weathered, dark-grey fresh, fine- to medium-grained, peloids
Section 200	03-13 North	hwest Flani	k, Shunda Mountain (UTM 557981, 5822145)
14530	RA	<2¼	<u>Mudstone</u> , medium-grey weathered, dark-grey fresh, fine-grained, interbeds of medium-grey crinoidal grainstone, attitude of beds 310°/18° NE
14529*	RA	-	Grainstone, medium-grey weathered and fresh, medium- to coarse-grained, crinoids, gastropods, peloids, nautiloids, brachiopods, sparry calcite
14528	RA	21⁄2	<u>Crinoidal Grainstone</u> , light-grey weathered, medium-grey fresh, medium- to coarse-grained, rugose corals prominent in upper 1/2 m, attitude of beds 298°/25°NE
Isolated Sa	amples on l	ittle Shund	da Mountain
17330	RA	3/4	<u>Wackestone</u> , brown weathered, light-brownish-grey fresh, few beds of <u>Grainstone</u> , grains 2-3mm, some scattered crinoids, pellets, attitude of beds 134°/30° W
17015	RA	11⁄2	Grainstone, medium-grey weathered and fresh, medium-grained, abundant corals, attitude of beds 290°/30° E
17014	RA	~4¼	<u>Crinoidal Grainstone</u> , grey-white weathered, medium-grey fresh, medium-grained, attitude of beds 287°/18° E
Section 20	03-14: Wes	t of Shunda	a Mountain (UTM 557026, 5820594)
17233	RA	1	Wackestone, light-grey weathered and fresh, pellets, occasional crinoid
17239	RA	1⁄4	Grainstone, medium-grey weathered, light-grey fresh, coarse-grained, crinoids, attitude of beds 118°/21° W
17236	RA	1⁄4	Lime Mudstone, brown-buff to rusty-buff weathered; light-grey to light buff-grey fresh, fine-grained, rust lined fractures, some secondary carbonate veinlets/stringers, small vugs
17235	RA	1/4	Lime Mudstone, tan-grey weathered, medium- to dark-grey fresh, very fine to fine-grained, massive, some secondary calcite stringers, attitude of beds 142°/22° SW
17234	RA	1/2	<u>Wackestone</u> , medium brownish-grey weathered, grey fresh, fine- to medium-grained, some secondary sparry calcite, beds 10 cm
17237	Banff	1	Grainstone, medium-grey-brown weathered, light-grey fresh, coarse-grained, beds 10-25cm, attitude of
17238	Banff	3/4	beds 130°/10° W <u>Lime Mudstone</u> , brown weathered, dark-grey fresh, very fine to fine-grained, platy beds, attitude of beds 124°/16° W

Interval	Unit	Strat.	Description
Number		Thick. (m)	
coloted S	mala South	wast of Sh	unda Mountain
17131	RA	~4¼	Mudstone, light-brown weathered, black fresh, fine-grained, thin well bedded, calcite veins
			perpendicular to beds, crinoid bed, section coarsens up to medium-grey <u>Packstone</u> , attitude of beds 082°/27° S
Section 20	03-15: Alon	a Highway 1	I1(UTM 566440, 5816060)
•	Pai	-	Dolomite, brown weathered and fresh, beds 1/4-3/4 m
-	AL	7	Dolomitic Limestone, black-brown weathered, black fresh, beds ~1/4 m
-	AL	1	Argillaceous Wackestone, black weathered and fresh, platy, shaly partings
14637	Mt. Hawk	-23⁄4	Mudstone, black weathered and fresh, fine- to very fine grained, black-grey (dolomitic) mottles, slightly nodular appereance, beds less than 10-20 cm, some thin argillaceous partings, few scattered brachiopods
14636	Mt. Hawk	31/2	Mudstone, as above
14635	Mt. Hawk	~23/4	Mudstone, as above, attitude of beds 140°/07°SW
-	Mt. Hawk	4	covered
14634	Mt. Hawk	-3¼	<u>Mudstone</u> , black weathered and fresh, very fine grained, beds generally less than 10-20 cm, slightly argillaceous, attitude of beds 125°/04°W
Section 20	)03-19; Dips	lope East of	f Nordegg Quarry
14544	RA	2	Wackestone, medium- to light-grey weathered, medium-grey fresh, fine-grained, peloids
-	RA	~13/4	covered
14545	RA	-13/4	Mudstone, dark-grey weathered and fresh, fine-grained
14546	RA	3	Wackestone, grey-buff weathered, light- to medium-grey fresh, medium-grained, crinoid debris, increased peloids in middle of section
14547	RA	1	Mudstone, light-grey weathered and fresh, fine-grained, peloids
14548	RA	4	<u>Dolomitic Packstone to Grainstone</u> , light- to medium-grey weathered and fresh, coarse-grained, crinoi and peloid debris, vuggy
14549	RA	2	Grainstone, light-grey to white weathered, light-grey fresh, medium- to coarse-grained, peloids
14550	RA	2	Grainstone, medium-grey weathered and fresh, medium-grained, crinoids, peloids
14551	RA	~23/4	Mudstone, medium- to dark-grey weathered and fresh, fine-grained, massive, attitude of beds 168°/10 W
Section 2	02-20: Dine	long East o	f Nordegg Quarry
17355	RA	2	Grainstone, light-grey to light-brownish-grey weathered and fresh, massive, crinoids, some grains 3- 4 mm
17354	RA	3	Wackestone coarsaning up to Grainstone, light-grey weathered, brownish-grey fresh, massive
17353	RA	-3/4	Lime Mudstone, light-grey weathered, medium-brownish-grey fresh, micritic to very fine grained, massive, several small anhydrite or fluorite crystals
-	RA	5	covered
17352	RA	-21/4	Wackestone, medium-brownish-grey weathered and fresh, grains to 2-3mm, massive
17351	RA	-2¾	Lime Mudstone, medium-brown-grey weathered and fresh, microcrystalline to very fine grained, massive
17350	RA	-31⁄4	<u>Wackestone</u> , brownish-grey fresh, light-grey weathered, some grains to 2mm, beds generally $\frac{1}{2}$ to $\frac{1}{2}$ m, attitude of beds 145°/9° W
17349	RA	1	Dolomitic Wackestone, medium- to dark-grey fresh, microcrystalline, few grains to 4mm, scattered crinoid debris, attitude of beds 129°/11° W
17348	RA	-21/4	Grainstone, light-grey weathered, medium-grey fresh
-	RA	11/2	covered
- 17347	RA	-13/4	Wackestone to Grainstone, light-grey weathered, light-brownish-grey to light-grey fresh, coarse- grained, massive, partly covered
17346	RA	4	Wackestone to Grainstone, as above
17345	RA	4	<u>Lime Mudstone</u> , light-grey to medium-brownish-grey, microcrystalline to very fine grained, coarsens u to <u>Pelletal Wackestone</u> with some grains to 2-3mm, massive, few scattered pellets, attitude of beds 129°/11° W
		17	
- 14543	RA RA	17 2	covered <u>Packstone</u> , medium- to light-grey weathered, medium-grey fresh, fine- to medium-grained, interbedde with grainstone
14542	RA	2	Dolomitic Limestone buff weathered, medium-grey fresh, fine-grained, crinoid fragments

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Interval Number	Unit	Strat. Thick. (m)	Description
Section 200	3-20; cont	inued	
14541	RA	~3¾	Peloidal Packstone, light-grey weathered, medium-grey fresh, medium-grained, dark peloids
14540	Banff	2	Mudstone, brown-black fresh, grey-black to brown weathering, thin interbeds of dolomitic limestone, calcite spar, wavy laminae, attitude of beds 170°/15° W
Section 200	3-21. Fast	Find of Dins	lope East of Nordegg Quarry
14531	RA	~3¼	<u>Peloidal packstone</u> , buff weathered, medium-dark-grey fresh, fine- to medium-grained, interbedded with <u>Grainstone</u> , attitude of beds 263°/11° E
14532	RA	~2	Packstone, light- to dark-grey weathered, medium-grey fresh, medium-grained, peloids and brachiopods
14533	RA	~2¾	Packstone, medium- to light-grey weathered, medium-grey fresh, fine- to medium-grained, interbedded with Grainstone, attitude of beds 096°/08°S
14534	RA	3	Lime Dolostone, medium- to light-grey weathered and fresh, fine-grained, some crinoid fragments
14535	RA	1½	Grainstone, medium-grey weathered and fresh, fine- to medium-grained, interbedded with Packstone, beds ½ m to massive
14536	RA	3	Crinoidal Grainstone, medium-grey weathered, light-grey fresh, medium- to coarse-grained
14537	RA	31/2	<u>Peloidal Wackestone</u> , light- to medium-grey mottled weathered, medium-grey fresh, medium- to fine- grained, thin <u>Dolomite</u> beds at base of section, light-grey-buff, mottled
-	Banff	1	covered
14538	Banff	1/2	Mudstone, black weathered and fresh, fine-grained, thinly bedded with zones of brachiopods, nodular
14539	Banff	1	Mudstone, grey-green to black-fresh, grey-brown weathering, fine-grained
Section 200	3-22; Cliff	s South of D	ipslope East of Nordegg Quarry
17344	RA	2	Limestone, tan weathered, very dark grey fresh, microcrystaline to cryptocrystaline, recessive
17343	RA	11⁄2	Lime Mudstone, brown weathered, medium-brownish fresh, very fine-grained to microcrystalline, thin bedded with some fine laminations, few scattered crinoid osicles
17342	RA	1½	Lime Mudstone, light-grey weathered, medium-brownish fresh, microcrystaline to very fine grained, massive, beds $\frac{3}{4}$ m
17341	RA	21⁄2	Lime Mudstone, light-grey weathered, medium-brownish-grey fresh, microcrystalline to Wackestone with scattered pellets, crinoids and other grains to 2-3mm, beds ½ m to massive
17340	RA "	31/2	Lime Mudstone, as above
17339	RA	31⁄2	Crinoidal Grainstone, light-grey weathered, light-brownish fresh, coarse-grained, scattered pellets, beds
17338	RA	~2¼	less than ¼ to ¾ m, fining up to <u>Wackestone</u> , attidude of beds 145 <sup>0</sup> /16 <sup>o</sup> W <u>Pelletal Wackestone</u> , light-grey weathered, medium-brownish-grey fresh, scattered crinoid debris, beds ¼ to ¾ m
17337	RA	31/2	Pelletal Grainstone, light-grey weathered, medium-brownish-grey fresh, scattered crinoid debris, beds 1/4 to 3/4 m
17336	RA	~2¼	Lime Mudstone, light-grey to light-tan-grey weathered, light-brown-grey fresh, microcrystaine, interbeds of limemud and vuggy dolomite, recessive, partly covered
17335	RA	2	Dolomite, buff weathered and fresh, microcrystaline, vuggy, abundant secondary white calcite filling
17204			vugs, recessive partly covered
17334 17333	RA RA	1½ ~2¼	Pelletal Grainstone, light-grey weathered and fresh, scattered crinoid debris Pelletal Grainstone, light-grey weathered and fresh, scattered crinoid debris, top ¼ m Lime Mudstone, light brownich gray, grains loss than 2.5mm, hedg 1/1/m
17332	RA	~2¼	light-brownish-grey, grains less than 3-5mm, beds ¼-½ m Grainstone, light-grey weathered; light-brownish-grey to medium-grey fresh, crinoidal, beds ¼ to ¾ m
17331	RA	~2¼	<u>Wackestone</u> , light-grey weathered and fresh, coarse-grained, scattered crinoid debris, beds $\frac{3}{4}$ m to massive, attitude of beds 134°/12° W
Section 200	3-25; Sou	th of Storm M	Aountain (UTM 569694, 5811961)
17251	RA	3	Wackestone to Lime Mudstone, light-grey weathered, brownish-grey fresh, fine-grained, beds 1/2 to 1/2 m
17250	RA	-1¼	<u>Wackestone to Lime Mudstone</u> , light-grey weathered, brownish-grey fresh, fine-grained, beds $\frac{1}{2}$ to $\frac{1}{2}$ m, few thin interbeds of black chert to 2 cm

Interval Number	Unit	Strat. Thick. (m)	Description
Section 200	3-25' cont	inued	
17249	RA	21⁄2	<u>Wackestone to Lime Mudstone</u> , light-grey weathered, brownish-grey fresh, fine-grained, beds < $\frac{1}{2}$ to $\frac{1}{2}$ m
17248	RA	2	Wackestone to Lime Mudstone, light-grey weathered, brownish-grey fresh, fine-grained, beds <1/2 to 1/2 m
17247	RA	2	<u>Wackestone</u> , light-grey weathered, medium-brownish-grey fresh, fine-grained, scattered crinoid debris and pellets, beds $\frac{1}{4}$ to $\frac{1}{2}$ m (offset ~50 m west along strike from 17248)
17246	RA	1	Lime Mudstone, light-grey-tan weathered, medium-brownish-grey fresh, fine-grained, beds few cm to
17245	RA	2	1/4 m, attitude of beds 133°/9° SW
17243	RA	~23/4	Lime Mudstone, light-grey weathered, medium brownish-grey fresh, beds ¼ to ½ m
17244		- 2 /4	Crinoidal Wackestone, light-grey weathered, medium-brownish-grey fresh, fine- to medium-grained, beds 1/2 to 1/2 m, scattered pellets, brachiopods, upper 3/2 m lime-mud, attitude of beds 163°/12° W
17243	RA	2	Grainstone to Wackestone, light-grey weathered, medium-brownish-grey fresh, coarse-grained, crinoids, pellets, some tan-grey thin interbeds, vuggy
17242	RA	2	<u>Grainstone</u> , light-grey weathered, medium- to grey-brown fresh, coarse-grained, abundant crinoids, massive, scattered pellets
17241	RA	21/2	Grainstone, light-grey weathered, medium- to grey-brown fresh, coarse-grained, abundant crinoids,
_	RA	1	massive, scattered pellets, attitude of beds 154°/9° SW covered
17240	RA	~3⁄4	Grainstone, light-grey weathered and fresh, coarse-grained, crumbly texture, massive
Section 200	13-26; Sou	th of Storm I	Mountain (UTM 569997, 5811750)
17262	RA	21⁄2	Lime Mudstone to Wackestone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds ¼ to ¾ m, few scattered crinoids, attitude of beds 144°/9° SW
17261	RA	2	Lime Mudstone to Wackestone as above
17260	RA	2	Lime Mudstone to Wackestone as above
17259	RA	2	Lime Mudstone to wackestone, as above
17258	RA	2	Wackestone, as above
17257	RA	2	Wackestone, as above
17256	RA	~21/4	Wackestone, as above
17255	RA	2	Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, pellets; beds 1/2-1/2 m
17254	RA	31⁄2	<u>Crinoidal Grainstone</u> , light-grey weathered, medium-brownish-grey fresh, coarse- to fine-grained (at top of section), beds 1/4-1 m, attitude of beds 119 <sup>0</sup> /7 <sup>o</sup> W
17253	RA	~1¼	<u>Calc-Grainstone</u> , light-grey weathered and fresh, coarse-grained, scattered crinoids, pellets and other debris, vugs, somewhat crumbly
17252	RA	4	<u>Calc-Grainstone</u> , light-grey weathered and fresh, coarse-grained, scattered crinoids, pellets and other debris, beds ¼-¾ m (base covered)
Section 200	3-28: We	st Side of Dr	/ Creek Bed South of Grizzly Creek
17302	RA	2	Lime Mudstone, light-grey weathered, light brownish-grey fresh, very fine grained, beds <½ m, some buff-grey weathered mottles, attitude of beds 141°/31° SW
17303	RA	2	Lime Mudstone, as above
17304	RA	21/2	Lime Mudstone, light-grey weathered, light brownish-grey fresh, fine-grained, beds 1/2-1/2 m, some scattered pellets
17305	RA	3	Lime Mudstone, as above
17306	RA	3	<u>Lime Mudstone</u> , light-grey weathered and fresh, very fine grained, wavy laminae up to $\frac{1}{2}$ cm thick in top $\frac{1}{2}$ m, beds $\frac{1}{2}$ - $\frac{1}{2}$ m
17307	RA	3	Lime Mudstone to Wackestone, light-grey weathered, light brownish-grey fresh, some scattered pellets
17308	RA	4	Wackestone, light-grey weathered and fresh, medium-grained, scattered pellets, beds 1/4-1 m
-	RA	8	covered
14558	RA	2	Mudstone, light-grey weathered, medium-grey fresh, medium- to fine-grained, sparse peloids
14559	RA	2	Packstone, medium-grey weathered and fresh, medium-grained, peloids and crinoids, massive, crystal size increases at base of sample

17273       RA       2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy buft weathered beds to 10cm thick, beds 10-25cm         17272       RA       -2%       Lime Mudstone, and Wackestone, light-grey weathered, medium greysh-brown fresh, medium-coarse-grained, interdeded, beds tess than ½ m, scattered petiets and crinoid debris, attitude of 122%/42° SW         17271       RA       -2%       Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered petiets and crinoid debris, attitude of beds 125%/5° SW         17270       RA       3       Wackestone, as above         17270       RA       3       Wackestone, as above         17268       RA       21%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered petiets, ledd less than ½ m         17267       RA       3       Crinoida Grainstone, light-grey weathered, medium-brownish-grey fresh, medium-grained, rare sc petiets, few thin interbeds of Wackestone, genarally massive         17266       RA       3       Crinoida Grainstone, light-grey weathered, light- to medium-grey fresh, medium- to coarse-grained, rare sc petiets, few thin interbeds of Wackestone, genarally massive         17266       RA       3       Corinoida Grainstone, light-grey weathered, medium brownish-grey fresh, medium-to coarse-grained, rare sc petiets, few thin interbeds of Wackestone, light-tornwish-grey fresh, medium-grained, scattered rinoid beds ¼/4 m         17266	Interval Number	Unit	Strat. Thick. (m)	Description
14550       RA       2       Packstong, medium-grey to buff weathered, medium- to dark-grey fresh, medium- to coarse-grapeloids         Section 2003-28; Ridgetop East of Dry Creekted South of Grizzly Creek (UTM \$72001, \$810692)       1/277         17279       RA       -2%         Lime Mudatone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds less 7/277       RA         17277       RA       -2%         Lime Mudatone, as above       1/277         17277       RA       -2%         Lime Mudatone, as above       1/277         17277       RA       -2%         Lime Mudatone, light-grey weathered, medium brownish-grey fresh, very fine grained, few vugs with ta carbonate, beds to ¼ m, few beds of <u>Wackestane</u> 17272       RA       -2%         Lime Mudatone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy buff weathered beds to ¼ m. few beds of <u>Wackestane</u> , light-grey weathered, medium-grey, fresh, medium-grained, scattered peters and crinoid debris, attitude of codes 125°42° SW         17271       RA       1         17272       RA       3         17273       RA       3         17271       RA       1         17272       RA       3         17273       RA       3         17276       RA       3				
Section 2003-29; Ridgetop East of Dry Creekbed South of Grizzly Creek (UTM 57201, 5910682)           17279         RA         -2%         Lime Mudstons, as above           17278         RA         -2%         Lime Mudstons, as above           17277         RA         -2%         Lime Mudstons, as above           17277         RA         -2%         Lime Mudstons, as above           17276         RA         -2%         Lime Mudstons, as above           17277         RA         -2%         Lime Mudstons, as above           17278         RA         -2%         Lime Mudstons, as above           17277         RA         -2%         Lime Mudstons, bods to X m, fow beds of Wackestons           17273         RA         -2%         Lime Mudstons, logits to X m, fow beds of Wackestons           17277         RA         -2%         Lime Mudston, light-grey weathered, medium brownish-grey fresh, wery fine grained, few vogs with ta catoriad, interbedded, beds less than X m, scattered pellots and crinoid debris, attitude of 12%/42° SW           17270         RA         1         covered           17270         RA         3         Wackestons, light-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pellots and crinoid debris, attitude of 26%/42° SW           17268         RA         2%         Wa				
<ul> <li>Section 2003-29; Ridgetop East of Dry Creekbed South of Grizzly Creek (UTN 572001, 5910682)</li> <li>17279 RA -2% Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds less 7 m; secondary while calcile stingers</li> <li>17276 RA -2% Lime Mudstone, as above</li> <li>17277 RA 2</li> <li>Lime Mudstone, as bove</li> <li>17278 RA -2% Lime Mudstone, as above</li> <li>17279 RA -2% Lime Mudstone, as above</li> <li>17274 RA 2% Lime Mudstone, as above</li> <li>17275 RA -2% Lime Mudstone, as above</li> <li>17276 RA 2% Lime Mudstone, as above</li> <li>17277 RA 2% Lime Mudstone, as above</li> <li>17278 RA -2% Lime Mudstone, as above</li> <li>17279 RA 2% Lime Mudstone, as above</li> <li>17270 RA -2% Lime Mudstone, and Wackestone, light-grey weathered, medium brownish-grey fresh, very fine grained, key but weathered beds to 10-25m</li> <li>17270 RA -2% Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pebds % /* m, attitude of beds 125°/45° SW</li> <li>17270 RA 3 Wackestone, as above</li> <li>17276 RA 3 Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pebds % /* m, attitude of beds 125°/45° SW</li> <li>17269 RA 2% Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered peldes, beds less than ½ m</li> <li>17266 RA 2% Wackestone, light-grey weathered, ight-brownish-grey fresh, medium-grey fresh, medium- to coarse-grained, rare sc prolets, few thin interbeds of Wackestone, generally massive</li> <li>17266 RA 3 Grainstone, light-grey weathered, light-brownish-grey fresh, medium-grey fresh, medium-to coarse-grained, rare sc grainsde, rassive</li> <li>17266 RA 3 Grainstone, light-grey weathered, light-brownish-grey fresh, medium-to coarse-grained, rare sc grainsde, frassive</li> <li>17266 Banff -11 Wackestone, light-grey weathered, light-brownish-grey fresh, micritic, bads ½ m</li>     &lt;</ul>	14560	RA	2	
17279       RA       -22.       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds less filters         17277       RA       -22.       Lime Mudstone, as above         17277       RA       -22.       Lime Mudstone, as above         17276       RA       -22.       Lime Mudstone, as above         17277       RA       -22.       Lime Mudstone, as above         17274       RA       -22.       Lime Mudstone, as above         17275       RA       -22.       Lime Mudstone, as above         17274       RA       -22.       Lime Mudstone, as above         17273       RA       -22.       Lime Mudstone, as above         17274       RA       -22.       Lime Mudstone, light-grey weathreed, medium brownish-grey fresh, very fine grained, wavy bult weathered needs to 10.25 cm         17270       RA       -22.       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pelets, beds less than ½ m.         17270       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, fow scattere pelets, beds less than ½ m.         17280       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-to coarse-grained, interbed beds 12.5745 SW         17280       RA       3	· · ·			peloids
<ul> <li>17279 RA -2% Lime Mudatone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds less forms above</li> <li>17277 RA -2% Lime Mudatone, as above</li> <li>17278 RA -2% Lime Mudatone, as above</li> <li>17276 RA -2% Lime Mudatone, as above</li> <li>17277 RA -2% Lime Mudatone, as above</li> <li>17278 RA -2% Lime Mudatone, as above</li> <li>17279 RA 2% Lime Mudatone, light-grey weathered, medium brownish-grey fresh, very fine grained, key you with tan carbonate, bads to % m, few beds of Wackestone</li> <li>17270 RA -2% Lime Mudatone, light-grey weathered, medium brownish-grey fresh, wey fine grained, way buft weathered petiets and crinoid debris, attitude of 129/42° SW</li> <li>RA 1 covered</li> <li>17270 RA 3 Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, scattered petiets, beds less than ½ m</li> <li>17269 RA 3 Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered petiets, beds less than ½ m</li> <li>17268 RA 2% Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered petiets, beds less than ½ m</li> <li>17266 RA 3 Crinoida and petiets</li> <li>17266 RA 3 Crinoida and petiets</li> <li>17267 RA 3 Crinoida and petiets</li> <li>17268 RA 3 Crinoida and petiets</li> <li>17269 RA 3 Crinoida and petiets</li> <li>17260 RA 3 Crinoida and petiets</li> <li>17266 RA 3 Crinoida and petiets</li> <li>17267 RA 3 Crinoida and petiets</li> <li>17268 RA 1</li> <li>17269 Crinoida and petiets</li> <li>17269 RA 1</li> <li>17269 Crino</li></ul>				
Y278       RA      24/2       Lims Mudatone, as above         17277       RA       2       Lims Mudatone, as above         17275       RA       -21/2       Lims Mudatone, as above         17276       RA       -21/2       Lims Mudatone, as above         17277       RA       -21/2       Lims Mudatone, as above         17274       RA       -21/2       Lime Mudatone, ight/grey weathered, medium brownish-grey fresh, very fine grained, few vugs with tan carbonate, bods to Xm, few beds of Wackestone         17272       RA       -24/2       Lime Mudatone, inht/grey weathered, medium brownish-grey fresh, wery fine grained, wavy buft weathered beds to 10cm finits, keds 10-25cm         17271       RA       -24/2       Wackestone, inph-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pellets and crinoid debris, attitude of actasteria, as above         17270       RA       -24/2       Wackestone, inph-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds x-x m, attitude of beds 125/45' SW         17270       RA       3       Wackestone, inph-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds with in inebeds of Wackestone, grained, fine, scattered pellets, beds x-x m, attitude of beds 125/44'2 SW         17266       RA       3       Circical Sammed, medium-brownish-grey fresh, medium-grained, scattered pellets, few thin iniebeds of Wackestone, grained, fi				
17277       RA       2       Lime Mudstone, as above         17275       RA       -2%       Lime Mudstone, as above         17274       RA       2%       Lime Mudstone, as above         17274       RA       2%       Lime Mudstone, as above         17273       RA       2%       Lime Mudstone, as above         17273       RA       2%       Lime Mudstone, as above         17272       RA       -2%       Lime Mudstone, and Wackestone, light-grey weathered, medium brownish-grey fresh, very fine grained, away bulk weathered beds to 10cm thick, beds 10-25cm         17271       RA       -2%       Lime Mudstone, and Wackestone, light-grey weathered, medium brownish-grey fresh, wery fine grained, scattered pelests and crinoid debris, attilude of 128 <sup>3</sup> /42 <sup>5</sup> SW         17270       RA       1       covered         17274       -74       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pelets 1/2 * W         17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, rare sc pellets, text bin interbeds of Wackestone, generality massive         17266       RA       2%       Wackestone, light-grey weathered, light-to medium-grey fresh, medium-to coarse-grained, rare sc pellets, text bin interbeds of Wackestone, generality massive         17266       RA       3       Grai	17279	RA	~2¼	
17276       RA      2%       Lime Mudstone, as above         17277       RA       -2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, few vugs with tan carbonate, beds to ½ m, few beds of <u>Wackestone</u> 17273       RA       2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavb buft weathered beds to 10cm thick, beds 10-25cm         17272       RA       -2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavb buft weathered beds to 10cm thick, beds 10-25cm         17270       RA       -2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pe beds %-% m, attitude of beds 125%45° SW         17270       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds less than X m         17267       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered crinolds and pellets         17268       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-to coarse-grained, interbedset less than X m         17268       RA       2%       Wackestone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rare sc pellets, few thin incriteds of Wackestone, generaliy massive         17268       RA       2%       Wackestone, light-grey weathered, light- to medium-grey f	17278	RA	~2¾	Lime Mudstone, as above
17274       RA       -2/4       Lime Mudstore as above         17274       RA       2/4       Lime Mudstore, light-grey weathered, medium brownish-grey fresh, very fine grained, few vugs with tan carbonate, beds to 1/4 mick, beds 10-25cm         17273       RA       2/4       Lime Mudstore, as above         17272       RA       -2/4       Lime Mudstore, and Wackstore, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy buff weathered beds to 10 mick, beds 10-25cm         17271       RA       -2/4       Lime Mudstore, and Wackstore, light-grey weathered, medium brownish-grey fresh, very fine grained, sattleted beds to 10 mick, beds 10-25cm         17270       RA       1       covered         17270       RA       3       Wackestore, light-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pelets 4/-4/m, attitude of beds 125/42° SW         17269       RA       3       Wackestore, light-grey weathered, medium-brownish-grey fresh, medium-to coarse-grained, rare sc pelets, beds less than 1/a micket scattered findic sand pelets         17266       RA       2/4       Wackestore, light-grey weathered, light-to medium-grey fresh, medium-to coarse grained, massive         17267       RA       3       Crinoidal Chainstone, light-grey weathered, light-to medium-grey fresh, medium-to coarse grained, massive         17264       Banff       -1       Wackestone. light-grey weathered, light-brownish-grey fresh,	17277	RA	2	Lime Mudstone, as above
17274       RA       2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, few vugs with tan carbonate, beds to ¼m, few beds of <u>Wackestone</u> 17273       RA       2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy bulk weathered beds to 10cm trick, beds 10-25cm         17272       RA       -2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, wery fine grained, wavy bulk weathered beds to 10cm trick, beds less than ¼ m, scattered pellets and crinold debris, attitude of 29%42° SW         17271       RA       -2%       Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pelleds ¼*¼ m, attitude of beds 125%45° SW         17270       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pelleds, beds less than ¼ m         17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-to coarse-grained, in scattered crinolds and pellets         17266       RA       3       Crinoldal Grainstone, light-grey weathered, light-to medium-grey fresh, medium-to coarse grained, massive         17265       Banff       -1%       Wackestone, light-grey weathered, light-to medium-grey fresh, medium-to coarse grained, massive         17264       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinolds beds 144%40° W       Lime Mudstone, as above	17276	RA	~21⁄4	Lime Mudstone, as above
17273       RA       2/3       Lime Mudstona, light-gray weathered, medium brownish-gray fresh, very fine grained, wavy buff weathered beds to 100m truck, bed 10.25cm         17272       RA       -2%       Lime Mudstone and Wackestone, light-gray weathered, medium grayish-brown fresh, medium-coarse-grained, interbedded, beds less than ¼ m, scattered pellets and crinoid debris, attitude of 129°/42° SW         -       RA       1       covered         17270       RA       -2%       Wackestone, light-gray weathered, medium brownish-grey fresh, medium-grained, scattered pellets, beds %-¼ m, attitude of beds 125°/45° SW         17269       RA       3       Wackestone, light-gray weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds less than ¼ m         17268       RA       2½       Wackestone, light-gray weathered, medium-brownish-grey fresh, medium-to coarse-grained, nr scattered crinoids and pellets         17267       RA       3       Crinoidal Grainstone, light-gray weathered, light- to medium-gray fresh, coarse-grained, nra scattered crinoids and pellets         17268       RA       3       Crinoidal Grainstone, light-gray weathered, light- to medium-gray fresh, medium-to coarse grained, massive         17265       RA       3       Crinoidal Grainstone, light-gray weathered, light-brownish-grey fresh, medium-grained, scattered crinoid beds ½-½ m         17265       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grai	17275	RA	~2¼	Lime Mudstone, as above
17273       RA       2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy buf weathered beds to 10cm thick, beds 10-25cm         17272       RA       -2%       Lime Mudstone and Wackestone. light-grey weathered, medium greyish-brown fresh, medium-coarse-grained, interbedded, beds less than ¼ m, scattered pellets and crinold debris, attitude of 128'42'2 WW         -       RA       1       covered         17271       RA       -2%       Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pellets. X-5 m, attitude of beds 125'45' SW         17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattere pellets, beds less than ¼ m         17268       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17268       RA       3       Wackestone, light-grey weathered, light-to medium-grey fresh, coarse-grained, rar sc pellets, tew thin interbeds of Wackestone, generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoic beds 126'4'4'0'         17265       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoic beds 12'4'40'         17264       Banff       -1%       Dolostone, from weathered, light-brownish-	17274	RA	21⁄2	Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, few vugs filled with tan carbonate, beds to ¼ m, few beds of Wackestone
17272       RA       -2%       Lime Mudstone and Wackestone, light-grey weathered, medium greyish-brown fresh, medium-coarse-grained, interbedded, beds less than ¼ m, scattered pellets and crinold debits, attitude of 129%2° SW         17271       RA       1       covered         17271       RA       -2%       Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pe beds %-% m, attitude of beds 125%45° SW         17270       RA       3       Wackestone, iight-grey weathered, medium-brownish-grey fresh, medium-grained, scattered pellets, beds less than ½ m         17268       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets.         17266       RA       2%       Wackestone, light-grey weathered, light-to medium-grey fresh, coarse-grained, rare sc pellets, few thin interbeds of Wackestone, generally massive         17266       RA       3       Carinstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium-to coarse grained, massive         17265       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoids and must measive, attitude of beds 142%40° W         17264       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, micritic, beds ¼ m         Section 2003-03; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)       17301       RA       <	17273	RA	21⁄2	Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, wavy buff
129°42° SW         RA       1       covered         17271       RA       -2%         Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pebeds ¼-½ m, attitude of beds 125°/45° SW         17270       RA       3         Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds less than ¼ m         17268       RA       2%         Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17266       RA       3         Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rare sc pellets, few thin interbeds of Wackestone, generally massive         17266       RA       3         Grainstone to Wackestone, light-grey weathered, light-to medium-grey fresh, medium- to coarse grained, massive         Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoid beds ¼-½ m         17264       Banff       -1%       Wackestone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ m         Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)       17261         17301       RA       1       covered         17299       RA       1       not sampled (inaccessible part of clift)	17272	RA	~23⁄4	Lime Mudstone and Wackestone, light-grey weathered, medium greyish-brown fresh, medium- to
17271       RA       -2%       Wackestone, light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pebeds '1/5'',45'' SW         17270       RA       3       Wackestone, a solve         17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds less than 'X m         17268       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17267       RA       3       Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rar sc pellets, few thin interbeds of Wackestone, enerally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coarse grained, massive         -       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoids beds '4-'% m         17265       Banff       -1%       Wackestone, light-grey weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144''40° W         17264       Banff       -1%       Lime Mudstone, as above         17265       Banff       -2%       Lime Mudstone, light-grey weathered with brownish motiles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135''44'' SW         17264       RA       2%       Lime				· · · · · ·
beds ¼-¼ m, attitude of beds 125°/45° SW         17270       RA       3       Wackestone, ight-grey weathered, medium-brownish-grey fresh, medium-grained, few scattere pellets, beds less than ¼ m         17269       RA       2%       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17267       RA       3       Crinoidal Grainstone, light-grey weathered, medium-brownish-grey fresh, coarse-grained, m scattered crinoids and pellets         17267       RA       3       Crinoidal Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rar scattered crinoids of Wackestone, generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coars grained, massive         -       Banff       -11%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoid beds ¼-¼ m         17268       Banff       -11%       Wackestone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ m         17263       Banff       -11%       Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°40° W         17264       Banff       -14       Dolostone, light-grey weathered with brownish motiles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW         17301       RA       -4	-		1	covered
17270       RA       3       Wackestone, as above         17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattere pellets, beds less than ½         17268       RA       2½       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, rar sc pellets, few thin interbeds of Wackestone, generally massive         17267       RA       3       Crinicial Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rar sc pellets, few thin interbeds of Wackestone, generally massive         17266       RA       3       covered         17265       Banff       -11%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoic beds 14/34 (p0 w         17264       Banff       -11%       Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144/40° W         17263       Banff       -14       Dolostone, light-grey weathered, medium brownish-grey fresh, micritic, beds ½ m         17264       Banff       -14       Dolostone, light-grey weathered, medium brownish-grey fresh, micritic, beds ½ m         17263       Banff       -14       Dolostone, light-grey weathered, medium brownish-grey fresh, micritic, beds ½ m         17300       RA       -24       Lime Mudstone, light-grey weathered with brownish motiles, medium brownish-grey fresh, very grained, bed	17271	RA	-21/4	<u>Wackestone</u> , light-grey weathered, medium brownish-grey fresh, medium-grained, scattered pellets, beds $\frac{1}{2}$ m attitude of beds $125^{\circ}/45^{\circ}$ SW
17269       RA       3       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered pellets, beds less than ¼ m         17268       RA       2½       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17267       RA       3       Crinoidal Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rars sc pellets, few thin interbeds of Wackestone, generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coars grained, massive         -       Banff       3       covered         17265       Banff       ~1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoid beds ¼-½ m         17264       Banff       ~1%       Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144/40° W         17263       Banff       ~1%       Dolostone, light-grey weathered, weathered, medium brownish-grey fresh, micritic, beds ¼ m         17301       RA       -2       Lime Mudstone, as above       .         17300       RA       1       covered       .         17299       RA       1       not sampled (inaccessible part of cliff)       .         17299       RA       1	17270	RA	3	
17268       RA       2½       Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, m scattered crinoids and pellets         17267       RA       3       Crinoidal Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rare scapellets, few thin interbeds of Wackestone, generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coarse grained, massive         -       Banff       -11/       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoids beds ¼-¼ m         17264       Banff       -11/       Wackestone, light-grey weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°/40° W         17263       Banff       -14       Dolostone, brown weathered, light brownish-grey fresh, micritic, beds ¼ m         Section 2003-30; Ridgeline       Near North End of Dipslope Mountain (UTM 572215, 5810389)         17301       RA       -1/       Lime Mudstone, a sabove         -       RA       1       covered         17299       RA       1       Lime Mudstone, a sabove         17297       RA       2       Lime Mudstone, as above         17297       RA       2       Lime Mudstone, as above         17296       RA       2       Lime Mudstone, as above <td></td> <td></td> <td></td> <td>Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered</td>				Wackestone, light-grey weathered, medium-brownish-grey fresh, medium-grained, few scattered
17267       RA       3       Crinoidal Grainstone, light-grey weathered, light- to medium-grey fresh, coarse-grained, rare sc. pellets, few thin interbeds of <u>Wackestone</u> , generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coars grained, massive         -       Banff       3       covered         17265       Banff       -1%       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoic beds ¼-¼ m         17264       Banff       -1%       Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°/40° W         17263       Banff       -1%       Dolostone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ m         Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)         17301       RA       -%       Lime Mudstone, as above         -       RA       1       covered         17300       RA       2%       Lime Mudstone, as above         -       RA       1       not sampled (inaccessible part of cliff)         17298       RA       2       Lime Mudstone, as above         17296       RA       2       Lime Mudstone, as above         17295       RA       2       Lime Mudstone,	17268	RA	21/2	Wackestone, light-grey weathered, medium-brownish-grey fresh, medium- to coarse-grained, massive,
pellets, few thin interbeds of Wackestone, generally massive         17266       RA       3       Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coars grained, massive         -       Banff       3       covered         17265       Banff       ~11/       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinold beds ½-½ m         17264       Banff       ~11/       Wackestone, light-grey weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°/40° W         17263       Banff       ~12       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, micritic, beds ½ m         Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)         17301       RA       -24       Lime Mudstone, as above         -       RA       1       covered         17300       RA       2½       Lime Mudstone, as above         -       RA       1       not sampled (inaccessible part of cliff)         17299       RA       1½       Lime Mudstone, as above         -       RA       2       Lime Mudstone, as above         -       RA       1       not sampled (inaccessible part of cliff)         17298       RA       2       Lime Mudstone, as above	47007			
grained, massive         -       Banff       3       covered         17265       Banff       -11/       Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinold beds ½-½ m         17264       Banff       -11/       Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°/40° W         17263       Banff       -11/       Dolostone, light-grey weathered, medium brownish-grey fresh, micritic, beds ½ m         Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)         17301       RA       -%       Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW         -       RA       1       not sampled (inaccessible part of cliff)         17299       RA       1/       Lime Mudstone, as above         17299       RA       1/       Lime Mudstone, as above         17297       RA       2       Lime Mudstone, as above         17298       RA       2       Lime Mudstone, as above         17295       RA       2/       Lime Mudstone, as above         17295       RA       2       Lime Mudstone, as above         17295       RA       2/       Lime Mudstone, as above <td>17267</td> <td></td> <td>3</td> <td>pellets, few thin interbeds of Wackestone, generally massive</td>	17267		3	pellets, few thin interbeds of Wackestone, generally massive
<ul> <li>Banff -1¼ Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoid beds ¼-¼ m</li> <li>Banff -1¼ Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144°/40° W</li> <li>Banff -¾ Lime Mudstone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ m</li> <li>Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)</li> <li>17301 RA -¼ Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW</li> <li>RA 1 covered</li> <li>17299 RA 1½ Lime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Lime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>RA 2½</li> <li>Iime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>Ime Mudstone, as above</li> <li>RA -1¼ covered</li> <li>Ime Mudstone, as above</li> <li>RA -2¼ Lime Mudstone, is above</li> <li>RA -2¼ Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¼ m, attitude of beds 132°/40° SW</li> <li>RA 1½ covered</li> <li>IT293 RA 3</li> <li>Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,</li> <li>IT292 RA 3</li> </ul>	17266	RA	3	Grainstone to Wackestone, light-grey weathered, light- to medium-grey fresh, medium- to coarse- grained, massive
beds ¼-¼ m17264Banff~1¼Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm of beds 144 <sup>9</sup> /40° W17263Banff~¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ mSection 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)17301RA~¼Lime Mudstone, as above-RA1covered17300RA2¼Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW-RA1not sampled (inaccessible part of cliff)17299RA1¼Lime Mudstone, as above17298RA2Lime Mudstone, as above-RA2Lime Mudstone, as above-RA2Lime Mudstone, as above17297RA2¼Lime Mudstone, as above-RA-1¼covered17295RA2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, inght-grey weathered, medium brownish-grey fresh, very fine grained	-	Banff	3	covered
of beds 144°/40° W         17263       Banff       -¾       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ m         Section 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)         17301       RA       -¾       Lime Mudstone, as above         -       RA       1       covered         17300       RA       2½       Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW         -       RA       1       not sampled (inaccessible part of cliff)         17299       RA       1½       Lime Mudstone, as above         17297       RA       2½       Lime Mudstone, as above         17298       RA       2       Lime Mudstone, as above         17297       RA       2½       Lime Mudstone, as above         -       RA       -½       covered         17296       RA       2       Lime Mudstone, as above         -       RA       -½       covered         17295       RA       -2¼       Lime Mudstone, as above         -       RA       -2¼       covered         17294       RA       -2¼       Lime Mudstone, light-grey weathered, medium	17265	Banff	~1¼	Wackestone, light-grey weathered, light-brownish-grey fresh, medium-grained, scattered crinoid debris, beds ½-½ m
17263Banff-¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, micritic, beds ¼ mSection 2003-30; Ridgeline Near North End of Dipslope Mountain (UTM 572215, 5810389)17301RA-¼Lime Mudstone, as above-RA1covered17300RA2½Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW-RA1not sampled (inaccessible part of cliff)17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above17297RA2½Lime Mudstone, as above-RA2Lime Mudstone, as above17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above-RA-¼covered17295RA-2¼Lime Mudstone, as above-RA-¼covered17294RA-2½Lime Mudstone, as above-RA-1¼covered17293RA3Wackestone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¼ m, attitude of beds 132°/40° SW-RA1¼covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatte crinoids; rare rugose coral,17292RA3Wackestone, as above	17264	Banff	~1¼	Dolostone, brown weathered, light brown-tan fresh, fine-grained, slightly porous, beds 10-25cm, attitude of bods 1449/40° W
17301RA-¾Lime Mudstone, as above-RA1covered17300RA2½Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW-RA1not sampled (inaccessible part of cliff)17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above17297RA2½Lime Mudstone, as above-RA2Lime Mudstone, as above-RA2½Lime Mudstone, as above-RA2Lime Mudstone, as above-RA2Lime Mudstone, as above-RA-½covered17295RA-2½Lime Mudstone, as above-RA-½covered17294RA-2½Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above	17263	Banff	~3/4	
-RA1covered17300RA2½Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW-RA1not sampled (inaccessible part of cliff)17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above with tan-grey mottles17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above-RA-¼covered17295RA2Lime Mudstone, as above-RA-¼covered17294RA-2¼Lime Mudstone, as above-RA-½Lime Mudstone, as above-RA1/2Covered17293RA3Wackestone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¼ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above	Section 200	3-30; Rid	geline Near N	lorth End of Dipslope Mountain (UTM 572215, 5810389)
17300RA2½Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very grained, beds 1m to massive, attitude of beds 135°/44° SW-RA1not sampled (inaccessible part of cliff)17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above with tan-grey mottles17297RA2½Lime Mudstone, as above-RA-1¼covered17296RA2Lime Mudstone, as above-RA-2¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above	17301	RA	~3⁄4	Lime Mudstone, as above
grained, beds 1m to massive, attitude of beds 135°/44° SW-RA117299RA1½17298RA217297RA2½17297RA2½17297RA2½17296RA2½17296RA217295RA2½17295RA2½17294RA-2¼17295RA-2¼17294RA-2¼17294RA-2¾17293RA1½17293RA317292RA317292RA3Wackestone, as above	-	RA	1	covered
-RA1not sampled (inaccessible part of cliff)17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above with tan-grey mottles17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above17295RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, ight-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above	17300	RA	21/2	Lime Mudstone, light-grey weathered with brownish mottles, medium brownish-grey fresh, very fine
17299RA1½Lime Mudstone, as above17298RA2Lime Mudstone, as above with tan-grey mottles17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above17295RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above				
17298RA2Lime Mudstone, as above with tan-grey mottles17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above17295RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered17294RA-2¼Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above	-		· 1	not sampled (inaccessible part of cliff)
17297RA2½Lime Mudstone, as above-RA-¼covered17296RA2Lime Mudstone, as above17295RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, as above-RA-2¼Lime Mudstone, ight-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW-RA1½covered17293RA3Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,17292RA3Wackestone, as above			1½	
-       RA       ~½       covered         17296       RA       2       Lime Mudstone, as above         17295       RA       ~2¼       Lime Mudstone, as above         -       RA       ~3¼       covered         17294       RA       ~2¼       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW         -       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above				
17296       RA       2       Lime Mudstone, as above         17295       RA       ~2¼       Lime Mudstone, as above         -       RA       ~3¼       covered         17294       RA       ~2¼       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW         -       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	17297		21/2	Lime Mudstone, as above
17295       RA       ~2¼       Lime Mudstone, as above         -       RA       ~3¼       covered         17294       RA       ~2¼       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW         -       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	-	RA	-1/4	covered
-       RA       ~¾       covered         17294       RA       ~2¾       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW         -       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	17296	RA	2	Lime Mudstone, as above
17294       RA       ~2%       Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered, and crinoids, beds ¼-¾ m, attitude of beds 132°/40° SW         -       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	17295	RA	~2¼	Lime Mudstone, as above
-       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above		RA	-3/4	covered
-       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	17294	RA	~23⁄4	Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, scattered pellets
-       RA       1½       covered         17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above				
17293       RA       3       Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scatter crinoids; rare rugose coral,         17292       RA       3       Wackestone, as above	-	RA	11/2	
17292 RA 3 <u>Wackestone</u> , as above				Wackestone, light-grey weathered and fresh, coarse-grained, beds 1m to massive, some scattered
	17292	RA	3	-
		RA		
17291 RA 3 <u>Wackestone</u> , as above	17291	КA	3	Wackestone, as above

Interval Number	Unit	Strat. Thick. (m)	Description
Section 200	2 20	in und	
Section 200			
17290	RA	3.	Wackestone, as above, attitude of beds 121°/51° SW
17289	RA	~1¼	Crinoidal Grainstone, tan-grey weathered, light-grey fresh, coarse-grained, massive, porous, vuggy, crumbly, equivalent to 17283
Section 200			orth End of Dipslope Mountain (UTM 572340, 5810281)
-	RA	1½	Interbedded Lime- and Dolo-Mudstone, beds <¼ m , recessive
17288	RA	1½	<u>Grainstone to Wackestone</u> , as above, but beds <¼ m, 1½ m of interbedded tan <u>Dolostone/Lime</u> <u>Mudstone</u> above
17287	RA	~1¾	Grainstone to Wackestone, as above
17286	RA	~21⁄4	<u>Grainstone to Wackestone</u> , light-grey weathered, light to medium-brownish-grey fresh, coarse-grained, generally massive
17285	RA	~2¼	Grainstone, light-grey weathered and fresh, coarse-grained, massive
17284	RA	~13⁄4	<u>Grainstone to Wackestone</u> , light-grey weathered, light- to medium-grey fresh, coarse-grained, beds less than ¾ m, genereally rubbly, some secondary white calcite; locally abundant jointing, some vuggy sections
17283	RA	~3⁄4	<u>Dolostone</u> , brown weathered and fresh, very fine grained, recessive, rubbly zone, vuggy, interbeds of <u>Calc-Grainstone</u>
17282	RA	1/2	<u>Calc-Grainstone</u> , light-grey weathered and fresh, very coarse grained, tan material lining vugs, crumbly and deeply weathered; beds to ¼ m
17281	RA	2	Lime Mudstone, light-grey weathered, medium brownish-grey fresh, very fine grained, beds <sup>3</sup> / <sub>4</sub> m, attitude of beds 145°/50° SW
17280	Banff	1	<u>Dolostone</u> , buff weathered, brown-grey fresh, fine-grained, some secondary coarse, white calcite blebs, rubble (subcrop)
14506	RA	21/2	2km Northwest of Peak of Dipslope Mountain (UTM 572263, 5809636) Mudstone, light-grey weathered and fresh, fine-grained
14505	RA	2	<u>Mudstone</u> , as above, attitude of beds 153°/20° SW
14504	RA	21/2	Mudstone, medium-grey weathered and fresh, fine-grained, sparse crinoids and peloids
	RA	1/2	covered
14503	RA	~3¾	Peloidal Wackestone, light-grey weathered, medium-grey fresh, medium-grained, crinoids, peloids
14502	RA	~3¾	Peloidal Wackestone, light-grey weathered, medium-grey fresh, medium-grained
14501	RA	~23⁄4	Peloidal Wackestone, as above, attitude of beds 148°/27° SW
-	-	~6	inaccessible, not sampled
			pslope Mountain (UTM 572403, 5809475)
14508			Mudstone, medium-grey weathered and fresh, fine-grained, attitude of beds 138°/27° SW
14509	RA	2	Mudstone, medium-grey weathered and fresh, fine-grained
14510	RA	2¾	Peloidal Wackestone to Packstone, light-grey weathered and fresh, fine- to medium-grained, interbedded
14511	RA	23⁄4	Mudstone, medium-grey weathered and fresh, fine-grained, attitude of beds 152°/32° SW
14512	RA	2	<u>Mudstone</u> , medium-grey weathered, light-grey fresh, fine-grained, sparse peloids, attitude of beds 150°/24° SW
14513	RA	2	<u>Mudstone</u> , as above
Section 20	03-34; 200	m Northwes	t of Peak of Dipslope Mountain (UTM 573680, 5808480)
14619	RA	11⁄2	Mudstone to Wackestone, light-grey weathered, medium- to dark-brownish fresh, medium-grained, few scattered pellets
14618	RA	21/2	<u>Wackestone</u> , light-grey weathered, medium- to dark-brownish fresh, medium-grained, few scattered pellets, attitude of beds 125°/30° W
1461 <b>7</b>	RA	~2¼	Pelletal Wackestone, light-grey weathered, medium-brownish-grey fresh, coarse-grained, top ½ of section crumbly/deeply weathered
14616	RA	3	Packstone, light-grey weathered, medium-brownish-grey, medium-grained, pellets
14615	RA	3 2½	Lime Mudstone to Packstone, top ¼ m corase-grained <u>Grainstone</u> , light-grey weatherd and fresh, fine- grained, beds massive to ¾ m, some scattered pellets, attitude of beds 135°/32° W

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	Unit	Strat.	Description
Number		Thick. (m)	
action 200	12 24: conti	auad	
14614	0 <b>3-34;</b> conti RA	nued 3	Lime Mudetone to Weekeetone, light grouperthered, medium brownich group fresh, sticked debrie
14014	na -		Lime Mudstone to Wackestone, light-grey weathered, medium-brownish-grey fresh, cnnoid debris, scattered pellets, massive
14613	RA	4	Lime Mudstone to Wackestone, as above
14612	RA	4	Lime Mudstone to Wackestone, as above attitude of beds 138°/49°W
14611	RA	4	<u>Mudstone to Wackestone</u> , is above, attitude of beus 138 749 W <u>Mudstone to Wackestone</u> , light-grey weathered; medium-brownish grey fresh, fine-grained, some black
14011		7	pellets, masive
14610	RA	4	Mudstone to Wackestone, as above
-	RA	2	covered, probable Banff-RA contact at base of covered interval
ection 200	)3-35; Peak	of Dipslope	e Mountain (UTM 574250, 5808225)
-	RA	21/2	not practical to examine this interval
14626	RA		Grainstone, medium-grey weathered and fresh, coarse-grained and crumbly, abundant scattered,
			crinoids, pellets, gastropods, beds less than 1/4 m, some secondary white calcite
14625	RA	2	Wackestone, light-grey weathered; brownish-grey fresh, scattered pellets
14624	RA		Wackestone, light-grey weathered, medium- to dark-brownish-grey fresh, very fine grained, rare
			scattered crinoid debris, pellets to 2-3mm, attitude of beds 138°/41° SW
14623	RA	3	Mudstone, light-grey weathered, medium- to dark-brownish-grey fresh, very fine grained, generally
			massive, rare black oval pellets 1-2 mm
14622	RA	3	Wackestone, light-grey weathered, dark- to medium-brownish-grey fresh, lower 1/4 m has aboundant
			scattered fossil debris, (crinoids, rugose corals); intervals of graded bedding with scattered crinoids and
	_	-	rugose corals; generally massive
14621	RA	21/2	Wackestone, light-grey weathered, medium- to dark-brownish fresh, medium-grained, massive,
			scattered pellets
14620	RA	4	Wackestone to Mudstone, light-grey weathered, medium-brownish-grey fresh, massive
covered	RA	41/2	Banff is assumed to below this covered interval
			t of Peak of Dipslope Mountain (UTM 574280, 5808275)
14633	RA	2	<u>Grainstone</u> , light-grey weathered, brownish-grey fresh, coarse-grained, crinoids, pellets, some
14622	<b>D</b> A	01/	sections crumbly, deeply weathered, beds less than ½ m thick
14632	RA	21⁄2	<u>Mudstone to Grainstone</u> , light-grey weathered, dark- to medium-brownish-grey fresh, very fine to coarse
14631	RA	~3¼	grained, pellets, coarsens up through the section
14031	КA	~3%	Mudstone to wackestone, light-grey weathered, dark- to medium-brownish-grey fresh, very fine to fine- grained, scattered pellets 1-3mm, beds less thans ½ m
14630	BA		
14030		21/	Waskestepe light grow weathered medium to deal how site may finch any terms of all the
	RA	31/2	<u>Wackestone</u> , light-grey weathered, medium- to dark-brownish-grey fresh, scattered pellets
14629	RA	3½ 3½	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval
14629	RA	31⁄2	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than 1/2-1/4m
14629			<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>2</sub> m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm,
	RA	31⁄2	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than 1/2-1/4m
14629 14628	RA RA	3½ 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW
14629 14628	RA	31⁄2	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>4</sub> m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm,
14629 14628	RA RA	3½ 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm,
14629 14628 14627	RA RA Banff	3½ 3 1	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain
14629 14628 14627	RA RA Banff	3½ 3 1	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b>
14629 14628 14627 ection 200	RA RA Banff 03-37; West	3½ 3 1 Flank 600 r	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain
14629 14628 14627 ection 200	RA RA Banff 03-37; West	3½ 3 1 Flank 600 r	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>Mudstone</b> to Peloidal Packstone, with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement
14629 14628 14627 ection 200 14977	RA RA Banff 03-37; West RA	3½ 3 1 : Flank 600 r 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b> <u>Mudstone to Peloidal Packstone</u> , with interbedded fossiliferous grainstone, light-grey weathered and
14629 14628 14627 ection 200 14977	RA RA Banff 03-37; West RA	3½ 3 1 : Flank 600 r 3	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m         Mudstone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW         Mudstone, brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain         m South of Peak of Dipslope Mountain (UTM 574352, 5807688)         Mudstone to Peloidal Packstone, with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement         Mudstone to Peloidal Packstone, medium-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement
14629 14628 14627 ection 200 14977 14976	RA RA Banff 0 <b>3-37; Wes</b> t RA RA	3½ 3 1 : Flank 600 r 3 3	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>Mudstone</b> to Peloidal Packstone, with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement Mudstone to Peloidal Packstone, medium-grey weathered and fresh, coarse-grained, abundant peloids,
14629 14628 14627 ection 200 14977 14976	RA RA Banff 0 <b>3-37; Wes</b> t RA RA	3½ 3 1 : Flank 600 r 3 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35' SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b> <u>Mudstone to Peloidal Packstone</u> ,with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement <u>Mudstone to Peloidal Packstone</u> , medium-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered, dark-grey turning to light-grey up section, medium-grained, preloids, crinoids, few vugs
14629 14628 14627 ection 200 14977 14976 14975	RA RA Banff 03-37; West RA RA RA	3½ 3 1 5 Flank 600 r 3 3 3	Mudstone to Wackestone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m         Mudstone, light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35' SW         Mudstone, brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain         m South of Peak of Dipslope Mountain (UTM 574352, 5807688)         Mudstone to Peloidal Packstone, with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement         Mudstone to Peloidal Packstone, medium-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement         Mudstone interbedded with Packstone, light-grey weathered, dark-grey turning to light-grey up section,
14629 14628 14627 ection 200 14977 14976 14975	RA RA Banff 03-37; West RA RA RA	3½ 3 1 5 Flank 600 r 3 3 3 3 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b> <u>Mudstone to Peloidal Packstone</u> , with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered, dark-grey turning to light-grey up section, medium-grained, preloids, crinoids, few vugs <u>Mudstone/Wackestone</u> , dark-grey weathered, medium-grey fresh, medium-grained, peloids, fractured, attitude of beds 161°/21°SW
14629 14628 14627 ection 200 14977 14976 14975 14974	RA RA Banff 03-37; West RA RA RA RA	3½ 3 1 5 Flank 600 r 3 3 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b> <u>Mudstone to Peloidal Packstone</u> ,with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement <u>Mudstone to Peloidal Packstone</u> , medium-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered, dark-grey turning to light-grey up section, medium-grained, preloids, crinoids, few vugs <u>Mudstone/Wackestone</u> , dark-grey weathered, medium-grey fresh, medium-grained, peloids, fractured, attitude of beds 161°/21°SW <u>Grainstone</u> , light-grey weathered, medium-grey fresh, coarse-grained, fines up to mudstone, crinoids,
14629 14628 14627 ection 200 14977 14976 14975 14974	RA RA Banff 03-37; West RA RA RA RA	3½ 3 1 5 Flank 600 r 3 3 3 3 3	<u>Mudstone to Wackestone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2mm, beds less than ½-¼m <u>Mudstone</u> , light-grey weathered, brownish-grey fresh, very fine grained, scattered oval pellets 1-2 mm, massive, very light to medium-grey mottles on some weathered surfaces, attitude of beds 145°/35° SW <u>Mudstone</u> , brown weathered, very dark-grey fresh, very fine grained, platy beds less than 15 cm, abundant organic stain <b>m South of Peak of Dipslope Mountain (UTM 574352, 5807688)</b> <u>Mudstone to Peloidal Packstone</u> , with interbedded fossiliferous grainstone, light-grey weathered and fresh, coarse-grained, crinoids, peloids, shell fragments, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered and fresh, coarse-grained, abundant peloids, intergranular sparry calcite cement <u>Mudstone interbedded with Packstone</u> , light-grey weathered, dark-grey turning to light-grey up section, medium-grained, preloids, crinoids, few vugs <u>Mudstone/Wackestone</u> , dark-grey weathered, medium-grey fresh, medium-grained, peloids, fractured, attitude of beds 161°/21°SW

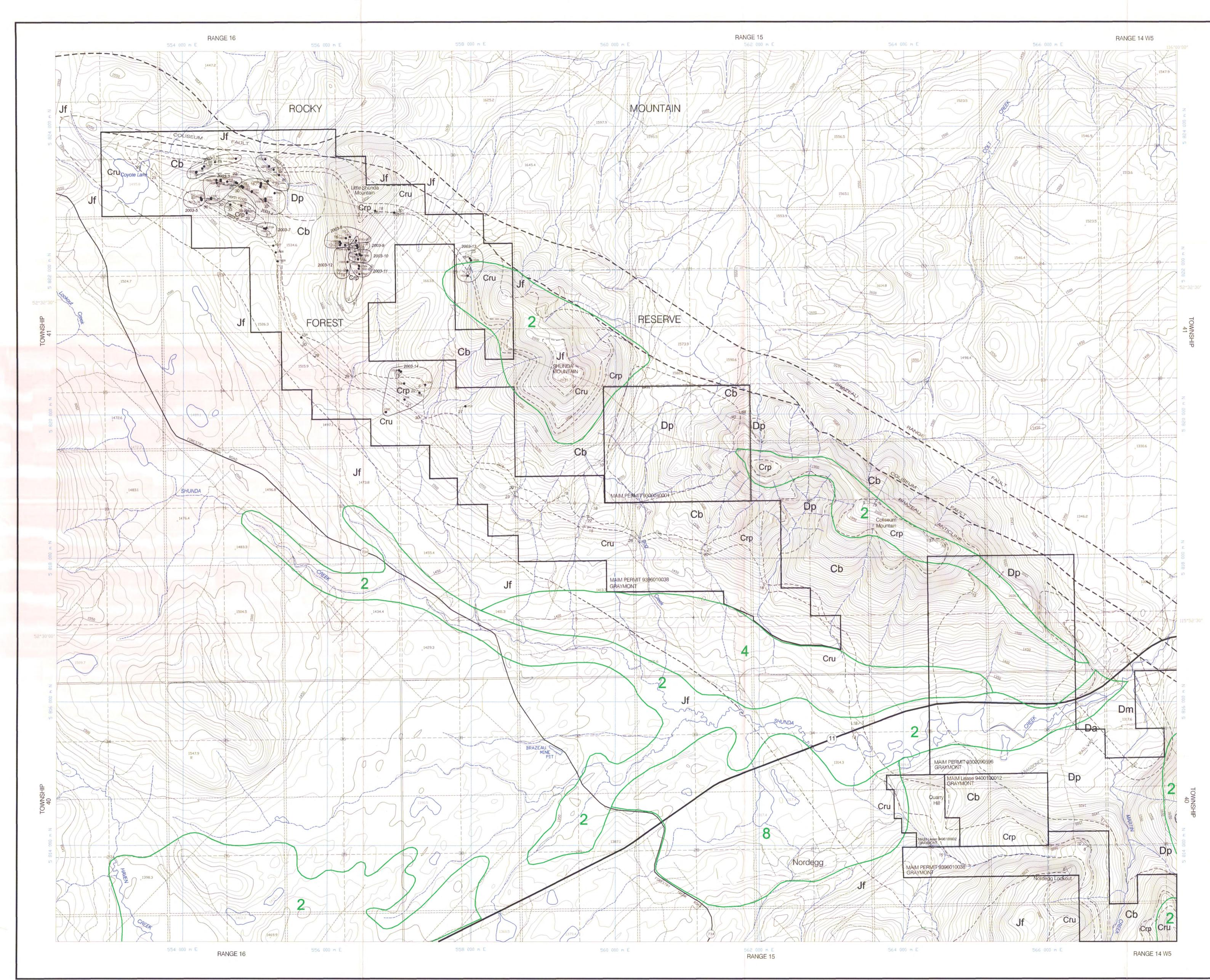
Number	Unit	Strat. Thick. (m)	Description
· · · · · · · · · · · · · · · · · · ·			
Section 200	3-37; cont	inued	
14971	RA	21⁄2	<u>Grainstone</u> with <u>Packstone</u> , medium-grey weathered and fresh, coarse-grained, vuggy sections with brown silty fill, crinoids, brachiopods, peloids
14970	RA	21/2	Grainstone with Packstone, medium-grey weathered and fresh, coarse-grained, fossiliferous (crinoids, braciopods, peloids), attitude of beds 120°/40° SW
14968	RA	3	Wackestone, as above
14969	RA	31⁄2	Wackestone, light-grey weathered, medium-grey fresh, fine-grained, peloids, few crinoids
Section 200	3-38; Cree	kbed 1 km S	South of Peak of Dipslope Mountain (574131, 5807189)
14978	RA	21/2	Packstone to Grainstone, medium-grey weathered and fresh, coarse-grained, lots of peloids, crinoids, braciopods
14979	RA	21/2	Packstone to Grainstone, as above
14980	RA	3	Grainstone, medium-grey weathered and fresh, medium- to coarse-grained, crinoids, peloids
14981	RA	3	Packstone/Wackestone, medium-grey weathered and fresh, medium-grained, peloids
14982	RA	3	Grainstone, as per 14980
Section 200	3-39; Cree	kbed 1.4 km	South of Peak of Dipslope Mountain (UTM 573935, 5806844)
14989	RA	~2¾	Grainstone/Packstone, light-grey to tan weathered, medium- to light-grey fresh, coarse-grained, abundant peloids, shell fragments
14988	RA	~2¾	Packstone, light-grey to tan weathered, medium-grey fresh, medium-grained, peloids, cnnoids
14987	RA	~2¾	<u>Grainstone</u> , tan weathered, light-grey fresh, crinoids, and peloids, some interbedded <u>Mudstone</u> , tan weathered, medium-grey fresh, medium- to coarse-grained
14986	RA	~23/4	Mudstone, tan weathered, medium-grey fresh, fine-grained, sparry calcite, few peloids
14985	RA	-43/4	Mudstone, light-grey-tan weathered, dark-grey fresh, fine-grained, few peloids
14984	RA	~3	Wackestone, light-grey weathered, dark-grey fresh, firie-grained, peloids, few shell fragments
14983	RA	~2³/₄	Mudstone, light-grey-tan weathered, medium-grey fresh, medium-grained, few peloids, attitude of beds 138°/22° SW
5. T			
solated San	nples on V	Vest Flank o	f Dipslope Mountain
solated San 17150	nples on V RA	Vest Flank o ~1¼	f <b>Dipslope Mountain</b> <u>Peloidal Wackestone</u> , light-grey weathered, medium-grey fresh, fine-grained, attitude of beds 148°/33° SW
			Peloidal Wackestone, light-grey weathered, medium-grey fresh, fine-grained, attitude of beds 148°/33°

## APPENDIX 3: STATEMENT OF QUALIFICATIONS

A15

The field work described in this report was supervised by Jody Dahrouge.

J.R. Dahrouge is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained degrees in geology and computing science from the University of Alberta, Edmonton in 1988 and 1994, respectively. He has more than 10 years of experience in mineral exploration. He is a member of the Canadian Institute of Mining and Metallurgy and is registered as P. Geol. with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

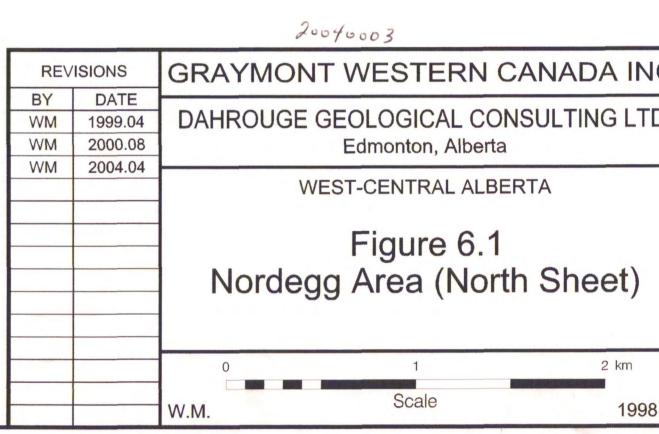


# LEGEND AND SYMBOL JURASSIC Jf Fernie Formation: shale, sandstone, carbonates CARBONIFEROUS **Rundle Group** Cru Turner Valley Formation: resistant, finely crystalline, vuggy dolomite; and Shunda Formation: recessive, thin-bedded, argillaceous limestone, fine dolomite, shale Crp Pekisko Formation: resistant, massive to thin-bedded, finely- to coarsely crystalline, fossiliferous limestone Cb Banff Formation: argillaceous and cherty limestone, fissile and calcareous shale DEVONIAN Dp Palliser Formation: massive mottled limestone and dolomite, porous and vuggy dolomite, argillaceous limestone Da Alexo Formation: silty dolomite, sandstone, dolomite breccia Dm Mount Hawk Formation: brown cherty dolomite, dark grey argillaceous limestone

Geological boundary					
Bedding (inclined, vertical, overturned, horizontal)					
Fault					
Synclinal axis (arrow indicates plunge)					
Anticlinal axis (arrow indicates plunge)					
Sample section with sample numbers					
Isolated sample with sample number					
Location of cross-section	۱				
Elevation contour (interval: 10 m)					
Highway with number					
Trail or cut line					
MAIM Permit					
Land Use Zone Boundar 2 - Critical Wildlife 4 - General Recreation					

# NOTES

1) Base map compiled from 1 : 20 000 scale digital base maps 83C/8NE and 83C/9SE supplied by Spatial Data Warehouse Ltd., Calgary, Alberta. 2) Geology modified after Erdman (1950), Douglas (1956, 1958), and Holter (1976). 3) UTM grid is based on North American Datum, 1983 (NAD83); UTM grid zone: 11U. To accompany Assessment Report entitled "2003 Exploration and Fieldwork within the Nordegg Metallic and Industrial Minerals Permit, West-Central Alberta".



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