MAR 20130014: FOLDING MOUNTAIN

Folding Mountain- A report on Carbonate exploration near Hinton, West-Central Alberta.

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GRAYMONT WESTERN CANADA INC.

2012 AND 2013 EXPLORATION AND DIAMOND DRILLING WITHIN THE FOLDING MOUNTAIN METALLIC AND INDUSTRIAL MINERALS PERMIT, WEST-CENTRAL ALBERTA

PART B

Metallic and Industrial Minerals Permit 9304050869

Geographic Coordinates

53°14' to 53°16' N 117°45' to 117°51' W

NTS Sheets 83 F/4 and F/5

Owner and Operator:

Graymont Western Canada Inc. 260, 4311 - 12 Street N.E. Calgary, Alberta T2E 4P9

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Date Submitted:

March 27, 2013

Confidentiality Report End Date: May 11th 2014

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SUMMARY

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During 2012 and 2013, exploration within Metallic and Industrial Minerals (MAIM) Permit 9304050869 of Graymont Western Canada Inc. near Folding Mountain, included the examination of 18 discrete stratigraphic intervals exceeding 37 m thickness, and the completion of five NQ diamond-drill holes totalling 768.40 m.

Outcrop and core samples were obtained and sent to a laboratory for whole-rock analysis. Exploration results show that the property is underlain by low-quality, variably dolomitic or argillaceous limestone, dolomitic grainstone, and shale of the Banff Formation, and moderate-quality lime mudstone and packstone of the Rundle Assemblage and upper Palliser Formation.

Throughout this report attitudes of bedding and other planar features are given as A°/B° SW, where A° is the azimuth of the strike and B° is the amount of dip in the direction indicated (right-hand rule). A magnetic declination of 17°49' east was used. Where bedding was not evident, stratigraphic thicknesses were calculated using orientations from adjacent units. Where more than one bedding orientation was measured, the mean orientation is used.

INTRODUCTION

The 2012 and 2013 exploration programs within the Folding Mountain Permit were conducted by Dahrouge Geological Consulting Ltd. (Dahrouge), on behalf of Graymont Western Canada Inc. (Graymont). This assessment report describes the exploration conducted within MAIM Permit 9304050869, which encompasses land north of the Yellowhead Highway (Hwy 16) and opposite Folding Mountain of West-Central Alberta. It includes information on the geology and quality of carbonates sampled in 18 discrete intervals from June 18 to 22, 2012 and a summary of 5 diamond drill holes completed from January 14 to 30, 2013. Bob Robison, exploration manager for Graymont Western U.S. Inc., authorized this work.

The objectives of the 2012 field exploration were to expand on previously explored areas, and to locate and better define carbonate units throughout the property.

The 2013 drill holes were located in order to test the thickness and quality of carbonate rocks within Devonian to Carboniferous stratigraphic units of the Folding Mountain area. The target formations of this drill program were the Devonian Palliser Formation and the Mississippian Pekisko Formation.

2.

GEOGRAPHIC SETTING AND ACCESS

3.1 LOCATION AND ACCESS

3.

MAIM Permit 9304050869 encompasses 2,413 hectares bordering Hwy 16 near Folding Mountain, approximately 25 km southwest of Hinton, Alberta (Fig. 3.1). Hinton is 290 km west of Edmonton on Hwy 16 and is serviced by the main line of Canadian National Railways.

Folding Mountain is within Athabasca River Valley (Entrance Corridor) about 5 km east of Jasper National Park.

Access to the permit area is via Hwy 16 from Edmonton or Jasper, Alberta. Allweather gravel roads, trails and cut lines that branch northerly from Hwy 16 provide additional access (Fig. 3.2).

3.2 INFRASTRUCTURE

Accommodations, food, fuel and other necessary services are available in Hinton. The local economy is primarily based on forestry and energy-based industries.

Hinton, with a population of about 9,600, is accessed by traveling either 290 km west of Edmonton or 80 km northeast of Jasper, via Hwy 16.

3.3 TOPOGRAPHY, VEGETATION AND CLIMATE

Opposite Folding Mountain, a topographically subdued ridge (FM Ridge) continues for more than 2.5 km north-westerly from Highway 16 and terminates southeast of Brûlé Lake. The area is part of the eastern-slope montane forest ecological region.

Below timberline, vegetation consists of dense stands of aspen, Lodgepole pine, white spruce, and less frequent stands of Douglas fir. Areas of lowest relief are covered with dense stands of black spruce and thick undergrowth, with local muskegs and swamps. Windblown soils and active aeolian dunes along the east shore of Brûlé Lake support shrubs, stunted balsam, poplar, and aspen. The region, including the northwest extension of FM Ridge is covered by a dense stand of second growth deciduous forest from prior logging.

3.4 ENVIRONMENTAL CONSIDERATIONS

Folding Mountain and its north-westerly continuation are within the Brûlé Lake Resource Management Area (RMA, Appendix 1) of the Coal Branch Sub-Regional Integrated Resource Plan (Alberta Forestry, Lands and Wildlife, 1990). From the Coal Branch Sub-Regional Integrated Resource Plan, broad resource management objectives for quarriable minerals include the following guidelines (Alberta Forestry, Lands and Wildlife, 1990; p. 10):

"... Exploration and development of mineral resources will be permitted in Zone 2 under the existing approval processes provided the value of the area to wildlife can be maintained. Mineral activities should attempt to avoid important habitat areas as much as possible. Where avoidance is not possible, the project must be designed to minimize disturbance of wildlife habitat and undertake mitigative measures to maintain habitat capability in or adjacent to the project area. Reclamation will have wildlife habitat as a high priority in Zone 2...."

The south-eastern 1 km of FM Ridge is within an access-controlled Critical Wildlife (Zone 2) Land Use Zone (LUZ) and the north-western part is within a General Recreation (Zone 4) LUZ.

The general intent of the Integrated Resource Plan for the Brûlé Lake RMA is to maintain the high visual qualities of the area, protect habitat for elk, mule deer, and the rare long-toed salamander population near Kinky Lake; allow intensive commercial recreation and tourism developments; and allow a limited range of multiple use activities (Alberta Forestry, Lands and Wildlife, 1990). On the southeastern shore of Wildhorse Lake, Wildhorse Lake Provincial Forest Recreation Area provides day and overnight camping facilities. Kinky and Wildhorse lakes are approximately 1.5 km and 200 m from the northernmost edge of the Folding Mountain MAIM Permit boundary.

The northern part of FM Ridge is of low visibility from Hwy 16. Recreational and industrial activity within the immediate vicinity of FM Ridge includes a large sewage lagoon to its southwest, near Jasper Park border; a refuse dump about 2 km to the northeast; and Folding Mountain Campground to the south of Highway 16 (Fig. 4.2).

3.5 FIELD OPERATIONS

The 2012 field operations were conducted by a four-person geological crew from Dahrouge, based in a hotel in Hinton. Transportation to and from the property was by four-wheel-drive truck. Access throughout the permit was by truck and hiking.

The 2013 diamond drilling was supervised by a one to three-person geological crew from Dahrouge, based in a hotel in Hinton. Transportation to and from the property was by four-wheel-drive truck.

The drill equipment was delivered to the site on a flat deck trailer, and was unloaded and positioned at drill sites by a D6 Bulldozer. Garmin GPSmap 60Cx instruments were used to mark outcrop and collar locations and record access information. Compasses were set at a magnetic declination of 17°49' east.

4. PROPERTY, EXPLORATION AND EXPENDITURES

4.1 PROPERTY SUMMARY

Examination of the Entrance Corridor for high-calcium limestone, on behalf of Graymont, commenced in 1997 by Halferdahl & Associates Ltd. Exploration during 1997 and 1998 included a compilation of existing information and reconnaissance scale mapping, sampling at Nikanassin Range near Cadomin, and within Foothills and Front Ranges west of Hinton, Alberta.

In 2000, carbonate exposures north of Hwy 16, northwest of Folding Mountain, were examined and sampled. The approximately 2.5 km long by 700 m wide FM Ridge was prospected and outcropping limestone were sampled.

In 2004, Graymont acquired MAIM Permit 9304050869 to cover Paleozoic carbonate units located within the Entrance Corridor near Folding Mountain, west of Hinton, Alberta.

In 2005, exploration within the Folding Mountain MAIM Permit consisted of surface mapping, sampling, and diamond drilling.

The Folding Mountain MAIM Permit encompasses 2,413 ha. Based on the 2012 exploration and 2013 drill program, the entirety of the Folding Mountain MAIM Permit will be retained (Section 4.3, Fig. 4.1).

4.2 EXPLORATION SUMMARY

The work described herein was undertaken to determine the thickness and quality of carbonate units within easily accessible areas of MAIM Permit 9304050869.

From June 18 to 22, 2012, Dahrouge, on behalf of Graymont, conducted exploration for carbonate lithotypes within western Alberta. Carbonate outcrops were examined and a total of 18 samples were collected (Fig. 4.2). Stratigraphic thicknesses were determined by measuring outcrops perpendicular to bedding. Geological observations were recorded, including lithologic information, measurements of structural elements, and other pertinent details (Appendix 3). A solution of 10% HCl was used to assess carbonate quality in the field, and rock samples were shipped to Central Lab of Graymont Western U.S. Inc. in Utah for analyses (Appendix 4).

From January 14 to 30, 2013, Dahrouge supervised the completion of 768.40 m of NQ drilling in five holes (Fig. 4.2). The locations and details of each drill hole are presented in Table 4.1. Glen Shaw Drilling of Logan Lake, British Columbia completed the diamond drilling using a skid-mounted Longyear 38 diamond drill rig. Due to environmental concerns and winter conditions, water was trucked from Hinton to the nearest access point, stored in tanks and pumped to the drill.

Geological observations of the drill core were recorded in diamond drill logs, including lithologic information, measurements of structural elements, and other pertinent details (Appendix 5). The core was split and a total of 126 samples were collected and sent for analyses. Assays were completed by the Central Analytical Laboratory of Graymont Western U.S. Inc. based out of Salt Lake City, Utah, USA; details of the analytical procedure are provided in Appendix 4. The drill core is currently stored at a private warehouse in Fort Saskatchewan, Alberta.

TABLE 4.1	2013 DIAMOND DRILL HOLE LOCAT	IONS

Drill Hole	Easting*	Northing*	Elevation (m)	Casing Depth (m)	Total Depth (m)
FM13-01	447673	5899759	1122.63	41.15	200.25
FM13-02	447217	5899718	1132.40	3.05	198.12
FM13-03	447359	5900114	1160.65	15.24	200.25
FM13-04	447185	5899973	1152.95	6.71	88.09
FM13-05	447252	5900028	1143.47	10.36	81.69

Coordinates are UTM NAD83 (Zone 11N)

4.3 EXPLORATION EXPENDITURES

The 2012 and 2013 exploration expenditures for MAIM Permit 9304050869 totaled \$284,963.76 (Appendix 1). The expenditures are to be applied towards work period years 11-12 and 13-14, which will fulfill the assessment requirements of the permit up to its term expiry of May 8, 2018.

Expenditures are allocated to MAIM permit 9304050869 as follows:

Assessment Period MAIM Permit 9304050869	Expiry Date	Required Expenditures	Assigned Expenditures
Years 11 and 12	May 11, 2016	\$3,658.36	\$3,658.36
Years 13 and 14	May 8, 2018	\$36,195.00	\$36,195.00

REGIONAL GEOLOGY

5.1 STRATIGRAPHY

5.

In the northern part of the Rocky Mountain Foothills and Front Ranges of Alberta, carbonate rocks are known to occur within both Paleozoic and Triassic sequences. Paleozoic limestones are described in the Upper Devonian Fairholme Group and Palliser Formation, Upper Devonian to Lower Carboniferous Banff Formation, and Lower Carboniferous Rundle Assemblage. As a prior report (Pana and Dahrouge, 1999) contains information on the regional structure and stratigraphy, most of that information is not repeated herein; however, information pertinent to the Folding Mountain area is included.

5.1.1 Palliser Formation

Paleozoic limestones of the Palliser and Banff Formations, and the Rundle Assemblage are exposed by the symmetrical Folding Mountain Anticline (Mountjoy, 1959). Within the core of Folding Mountain Anticline, the Palliser Formation is 180-240 m thick and consists of massive dark-grey and dark-brown, fine- to mediumgrained limestone with thin intervals of dolomitic limestone, dolomite, calcareous shale and chert (Irish, 1965). The Palliser can be subdivided into the upper Costigan Member and lower Morro Member (DeWit and McLaren, 1950). The Costigan Member generally consists of fine-grained, dark-grey to black, bioclast-rich lime mudstone to grainstone 3-35 m thick. The underlying Morro Member is composed of grey-brown, thickly bedded to massive, mottled dolomitic mudstone to calcareous dolomitic mudstone.

5.1.2 Banff Assemblage

In west-central Alberta, the Exshaw, Banff and Yohin formations comprise the Banff Assemblage (Richards et al. 1994). Only exposures of the Banff Formation appear within the Folding Mountain Permit. The Banff Formation is a heterogeneous association of carbonates and fine-grained siliciclastics deposited on poorly differentiated carbonate platforms. The Banff Formation is about 167.75 m thick and divisible, from bottom to top, into four units: a recessive unit about 121 m thick; a unit of interbedded crinoidal and silty limestone up to 15 m thick; a middle-upper unit of argillaceous limestone up to 45.75 m thick; and an upper unit of siltstone and silty limestone up to 9.25 metres thick (Mountjoy, 1959). Westward, the uppermost Banff Formation grades laterally into the Rundle Assemblage.

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5.1.3 Rundle Assemblage

The Lower Carboniferous Rundle Assemblage extends from Mackenzie Mountains in the Arctic, south through the Peace River Embayment to south-eastern 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). The Turner Valley Formation extends from eastcentral 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 50-120 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 southwest into the more open-marine sequence of the Livingstone Formation.

The upper Rundle Assemblage includes the transgressive Mount Head Formation.

5.1.4 Spray River Group

Mesozoic rocks exposed within Folding Mountain Anticline include strata of the Spray River Group. The Spray River Group is divisible into the lower Sulphur Mountain Formation and upper Whitehorse Formation. The Sulphur Mountain Formation is up to 305 m thick and consists of shale and silty shale which grade upward into thin-bedded siltstone and fine-grained sandstone. The Whitehorse Formation consists of dolomite and limestone, with quartzose sandstone and calcareous to dolomitic shale interbeds (Irish, 1965).

5.2 STRUCTURE

East of Brûlé Lake, the northwest plunging Folding Mountain Anticline exposes Paleozoic rocks with dips ranging from 30° to 45° within the western limb and from 30° to 60° in the eastern limb (Fig. 4.2). Folding Mountain Thrust marks the eastern boundary of Folding Mountain Anticline; its surface trace is about 1.5 km northeast of Folding Mountain.

PERMIT GEOLOGY

6.1 DRILLHOLE SUMMARY

6.

Carbonate lithologies of the Palliser Formation, Banff Assemblage and Rundle Assemblage were intersected during the 2013 drill program, which was located northwest of Highway 16 (Fig. 4.2). All five holes were drilled at approximately 60^o inclination to the east or northeast in order to intersect the underlying strata at near perpendicular angles.

The following intersections are approximate due to variations in the inferred bedding orientations. Hole FM13-01 intersected the lowermost 2 metres of Banff Formation, 32 m of the Upper Palliser (Costigan Member), and the uppermost 124 m of the Lower Palliser (Morro Member). Hole FM13-02 intersected the lowermost 127 m of the Sulphur Mountain Formation, the entire 20 m of the Turner Valley Formation, the entire 18 m of the Pekisko Formation and the uppermost 28 m of the Banff Formation. Hole FM13-03 intersected the lowermost 32 m of the Upper Palliser (Costigan Member) and the uppermost 152 m of the Lower Palliser (Morro Member). Hole FM13-03 intersected the lowermost 32 m of the Upper Palliser (Costigan Member) and the uppermost 152 m of the Lower Palliser (Morro Member). Hole FM13-04 intersected the lowermost 45 m of Turner Valley Formation, the entire 18 m of Pekisko Formation and the uppermost 18 m of Banff Formation. Hole FM13-05 intersected 71 m of the Banff Formation.

6.2 STRATIGRAPHY

The Palliser Formation was intersected in Holes FM13-01 and FM13-03. The upper Costigan Member consisted of fine-grained, fossiliferous dark-grey lime mudstone to wackestone, which was locally dolomitic. This was underlain by variably rubbly/poorly consolidated, vuggy, calcareous dolomitic mudstone of the lower Morro Member.

The Palliser Formation was overlain by the Banff Formation, which was intersected in holes FM13-01, FM13-02, FM13-04 and FM13-05. In Hole FM13-01, 2 metres of Banff Formation was intersected at the beginning of the hole; it consisted of interbedded dolomitic lime mudstone to wackestone. In Hole FM13-05, the 71 m thick interval of Banff Formation consisted of argillaceous dolomitic mudstone and calcareous dolomitic mudstone. According to Pana and Dahrouge (1998), the Banff Formation consists of a lower recessive unit of calcareous shales and cherty argillaceous limestone and an upper resistant unit of fine-grained, medium-bedded, limestone and dolomite with crinoid remnants (Douglas, 1953).

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Two of the three formations within the overlying Rundle Assemblage were intersected during the drill program. The full 18-19 m thickness of the basal unit, the Pekisko Formation, was intersected in Holes FM13-02 and FM13-04. It consisted of a competent, medium-grey lime mudstone to wackestone with local secondary dolomitization. The Shunda Formation, which was absent in the 2013 drill holes, is overlain by the Turner Valley Formation, which was identified in Holes FM13-02 and FM13-04. The 65 m thick interval of Turner Valley Formation encountered consisted of weakly calcareous, vuggy dolomitic mudstone with local siliceous intervals.

The Turner Valley Formation is disconformably overlain by the Sulphur Mountain Formation, which was intersected at the top of Hole FM13-02. The 127 m interval of Sulphur Mountain Formation consisted of rusty brown siltstone, mudstone and weakly calcareous shale, which was locally carbonaceous.

RESULTS

7.

Analytical results of outcrops and drill core samples revealed significant amounts of secondary dolomitization in otherwise high-quality limestone intervals within the permit (Appendix 5). Complete drill logs are provided in Appendix 5, and summarized in Table 7.1.

In total, approximately 2 metres of the Palliser Formation were sampled from outcrop and 126 m sampled from core. Analytical results of the Palliser Formation were highly variable, ranging from 59-98% CaCO₃, 1-36% MgCO₃, and 1-23% SiO₂ in the upper Costigan Member. The dolomite content was greater than expected and appeared to be a secondary feature. The best interval was from Hole FM13-03, which averaged 93.75% CaCO₃, 2.56% MgCO₃ and 3.36% SiO₂ over 21.2 m. Due to the variable contents of MgCO₃ and CaCO₃, the Palliser Formation has limited potential for high-calcium limestone.

Samples from the Banff Formation were generally high in silica and/or dolomite, with low to moderate CaCO₃ values. The Banff Formation has low potential for either high-calcium limestone or high-quality dolomite.

Samples from the Rundle Assemblage varied greatly in quality. In total, approximately 2 metres from outcrop and 38 m from core were sampled. The analytical results of the Pekisko Formation ranged from 59-94% CaCO₃, 1-28% MgCO₃ and 1-9% SiO₂. The variability in MgCO₃ is likely caused by secondary dolomitization. No outcrops or drill core intercepts of the overlying Shunda Formation were identified during

the 2012 or 2013 exploration programs. The uppermost unit, the Turner Valley Formation, has low potential for high-calcium limestone, but has consistently high dolomite content, and therefore has some potential for high-quality dolomite. In total, approximately 30 m of Turner Valley were sampled from outcrop and 12 m sampled from core. Results ranged from 28-45% MgCO₃ over the entire thickness.

The Sulphur Mountain Formation, which disconformably overlies the Rundle Assemblage, consisted of primarily clastic rocks, and therefore is not a unit of interest.

TABLE 7.1

2013 DRILL HOLE SUMMARY

Drill Hole	From (m)	To (m)	Interval (m)	Formation
FM13-01	0.00	41.15	41.15	Overburden
FM13-01	41.15	43.50	2.35	Banff
FM13-01	43.50	45.03	1.53	Upper Palliser
FM13-01	45.03	48.69	3.66	Upper Palliser
FM13-01	48.69	51.26	2.57	Upper Palliser
FM13-01	51.26	75.66	24.40	Upper Palliser
FM13-01	75.66	95.63	19.97	Lower Palliser
FM13-01	95.63	200.25	104.62	Lower Palliser
FM13-02	0.00	3.05	3.05	Overburden
FM13-02	3.05	15.52	12.47	Sulphur Mountain
FM13-02	15.52	37.35	21.83	Sulphur Mountain
FM13-02	37.35	129.97	92.62	Sulphur Mountain
FM13-02	129.97	150.11	20.14	Turner Valley
FM13-02	150.11	169.85	19.74	Pekisko
FM13-02	169.85	198.12	28.27	Banff
FM13-03	0.00	15.24	15.24	Overburden
FM13-03	15.24	28.40	13.16	Upper Palliser
FM13-03	28.40	37.59	9.19	Upper Palliser
FM13-03	37.59	47.85	10.26	Upper Palliser
FM13-03	47.85	200.25	152.40	Lower Palliser
FM13-04	0.00	6.71	6.71	Overburden
FM13-04	6.71	51.95	45.24	Turner Valley
FM13-04	51.95	69.95	18.00	Pekisko
FM13-04	69.95	75.12	5.17	Banff
FM13-04	75.12	88.09	12.97	Banff
FM13-05	0.00	10.36	10.36	Overburden
FM13-05	10.36	23.70	13.34	Banff
FM13-05	23.70	38.16	14.46	Banff
FM13-05	38.16	51.57	13.41	Banff
FM13-05	51.57	81.69	30.12	Banff

CONCLUSIONS

8.

Carbonate units of the Palliser, Banff, Pekisko and Turner Valley formations were examined during the summer of 2012 and drill tested in early 2013. A total of 18 discrete stratigraphic intervals exceeding 37 m thickness and five NQ diamond-drill holes totalling 768.40 m were examined. Overall, the analytical results were highly variable, partially due to secondary dolomitization.

Based on the results of the 2012 and 2013 exploration, the entirety of the Folding Mountain Property will be retained. Overall, no significant intercepts of high-calcium limestone were identified during the 2013 drill program. It is possible that this is partially due to the structure (and/or alteration) of the area, and that future drilling may yield different results.

Future exploration should consist of additional drilling, which will assist in the identification of structural features and possibly undisturbed high-calcium limestone intervals.

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STATEMENT OF QUALIFICATIONS

I, Patrick Kluczny, residing at

10.

Alberta, do hereby certify that:

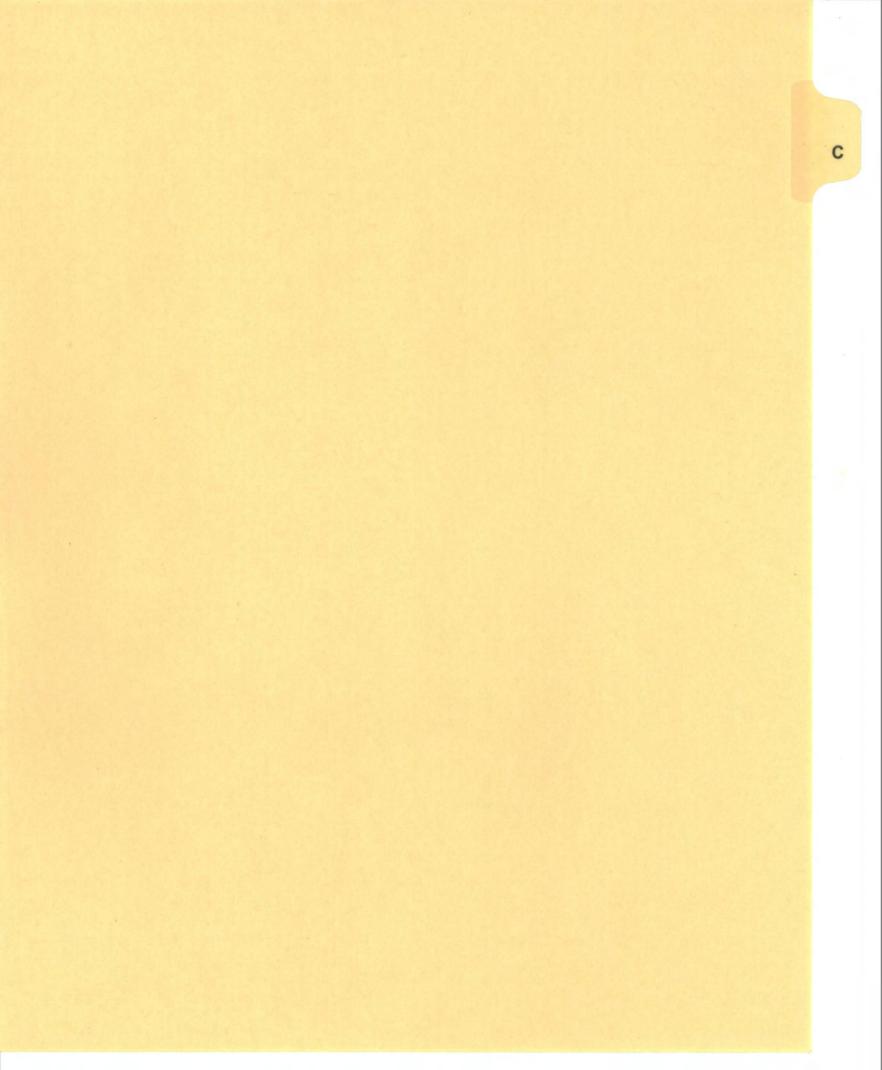
- I am a geologist of Dahrouge Geological Consulting Ltd., Suite 18, 10509 81 Ave., Edmonton, Alberta, T6E 1X7.
- I am a 2006 graduate of the University of Alberta, Edmonton, Alberta with a B.Sc. in Geology.
- I have practiced my profession as a geologist continuously since 2006.
- · I am a registered Professional Geologist with the Association of Professional Engineers and Geoscientists of Alberta, member M81985.
- I hereby consent to the copying or reproduction of this Assessment Report following the one-year confidentiality period.
- I am the author of the report entitled "2012 and 2013 Exploration and Diamond Drilling within the Folding Mountain Metallic and Industrial Minerals Permit, West-Central Alberta" and accept responsibility for the veracity of technical data and results.



APEGA M81985

APPENDIX 1: COST STATEMENT

a) <u>Personnel</u>	\$ 90,242.80
b) Food and Accommodation	\$ 5,701.52
c) <u>Transportation</u>	\$ 5,667.33
d) Instrument Rental	\$ 158.40
e) <u>Drilling</u>	\$ 147,050.84
f) <u>Analyses</u>	\$ 4,248.00
h) Other (Software Rental, Data, Field maps, Courier & Shipping)	\$ 5,989.08
Total	\$ 259,057.97
Administration (10%) Total + Administration	\$ 25,905.80 \$ 284,963.76



Alberta Forestry, Lands and Wildlife (1990) Coal Branch, Sub-regional integrated resource plan

Brule Lake RMA

3.6 Brule Lake Resource Management Area

The Brule Lake RMA is an area of approximately 64 km^2 (25 sq. mi.), forming the northwestern planning area boundary (Figure 9).

The area is within the Montane Ecoregion. Characteristic montane features include forest stands and grasslands, although Douglas fir, a major montane feature, is lacking. A main feature of the area is the windblown soil derived from the shores of Brule Lake. White spruce and balsam poplar, which are tolerant to such conditions, are common throughout the area. Active eolian dunes along the east shore of Brule Lake support patchy shrub communities, stunted balsam poplar and aspen.

Topography in the RMA is relatively flat. The dominant features are the sand dunes on the east shores of Brule Lake. This RMA's montane influence results in warmer winter temperatures and variable snow cover compared to the adjacent foothills and mountainous areas.

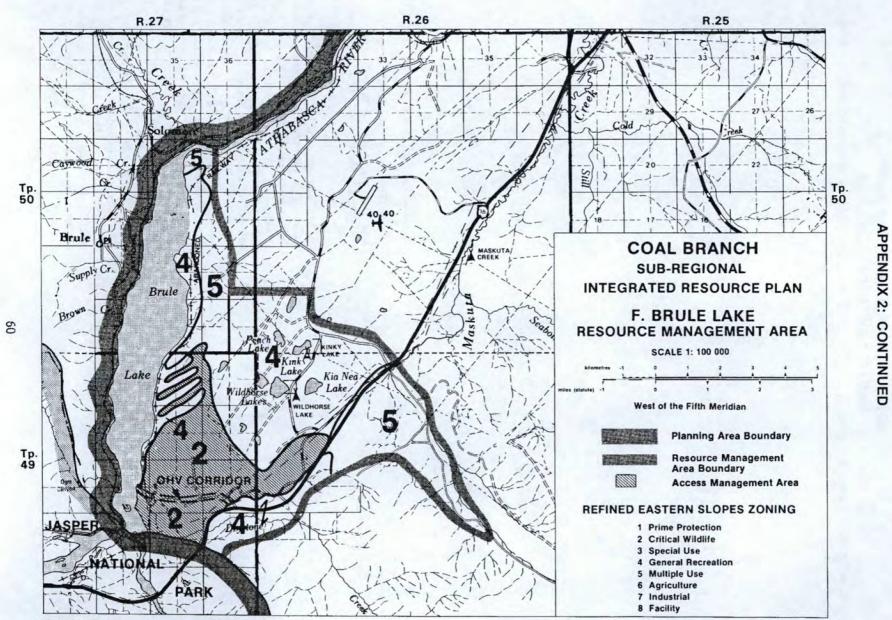


Figure 9: Brule Lake Resource Management Area.

The management intent for Brule Lake RMA is to retain the high visual qualities and protect the high wildlife, fisheries, recreational, tourism and historical resource values and sensitive soils. In addition, opportunities for intensive commercial recreation and tourism development will be provided while allowing for a limited range of multiple use activities.

In response to the various public interests for recreation and tourism resources, as well as other resources, a local integrated resource plan is recommended for the Yellowhead Corridor.

Water and Watershed

The RMA is drained by the Athabasca River and several creeks. The major drainages are Drystone Creek and a part of Maskuta Creek. These creeks generally exhibit steep gradients in the headwater areas and relatively stable channels. The area's colian deposits, when combined with the relatively arid and windy climate, are prone to wind erosion when vegetation is removed or disturbed. Vegetation is also difficult to re-establish after disturbance. The non-vegetated sand dunes are more subject to displacement by the wind.

There are several lakes in this RMA, of which Brule Lake is the largest. Others include Peach, Kinky, Kia Nea and Wildhorse lakes.

Objectives

- 1. To protect eolian soils east of Brule Lake from wind and water erosion by minimizing impacts on the area's sensitive eolian deposits.
- To preserve the water resources by minimizing negative impacts on the quality or quantity.

Brule Lake RMA

Guideline

 Land and resource use activities will be subject to site specific guidelines regarding location, intensity and season of operation so as to minimize impacts on both the water resources and the sensitive colian areas.

Minerals

Coal-bearing strata underlies 32 percent of this RMA. Only one coal deposit (Wildhorse Lakes) has been designated with remaining in-place reserves of two megatonnes of coal. Leases covering the deposit have been cancelled and the coal rights withdrawn from disposition.

Petroleum or natural gas fields have yet to be discovered here.

Objective

1. To provide opportunities for mineral exploration and development.

Guideline

1. The broad minerals management guidelines apply.

Timber

This RMA is within FMU E4N, and timber resources are harvested and managed by Weldwood of Canada Ltd.

Objectives

- 1. To ensure Weldwood of Canada Ltd. manages that portion of the FMA in the FMU E4N to provide a sustained yield of coniferous timber.
- 2. To ensure that the visual resources are protected along Highway 16 and the Athabasca River.

Guidelines

1. The detailed forest management plan for Weldwood of Canada Ltd. will be followed.

2. Timber harvesting within the line of sight of Highway 16 and Athabasca River will be planned according to the Forest Landscape Management Strategies for Alberta (Alberta, 1988c).

Wildlife

An important overwintering area for elk is located east of Brule Lake. Approximately 40 elk use the area. The rolling dune topography and associated vegetation provides good mule deer habitat. A long-toed salamander population is present near Kinky Lake. This is one of two known populations in Alberta outside the national parks. Hunting and wildlife viewing are both important recreation uses in the RMA.

Objectives

- 1. To manage the elk population to increase numbers from 40 to 50 animals.
- To manage the mule deer population for a general increase in numbers.
- 3. To protect the rare long-toed salamander population near Kinky Lake from disturbance.

Guidelines

- 1. An access management area will apply to the Brule Lake Zone 2 area to prohibit year-round motorized recreational access and to promote use of forage areas by elk. However, a designated motorized recreation route will be provided through this Zone 2 area. This area is proposed for bow hunting only.
- 2. Critical thermal cover for elk will be retained within and adjacent to the Brule Lake Zone 2.
- 3. The spawning, hibernation and movement areas for long-toed salamanders in the Kinky Lake area will be protected from disturbance by protective reservation.

Fisheries

Kinky and Wildhorse lakes provide regionally significant rainbow trout and brook trout fisheries. Several other lakes in the area have potential for stocking as demand warrants. Brule Lake is generally too shallow and siltladen to provide any recreational fishing potential. Mountain whitefish, rainbow trout and bull trout are present in the Athabasca River.

Objectives

- 1. To manage the fisheries resource of Kinky and Wildhorse lakes as stocked lake fisheries capable of providing an average catch rate of 0.5 fish per angler hour.
- 2. To stock the other lakes surrounding Kinky and Wildhorse lakes as demand warrants and where compatible with other resource values.

Guideline

1. Stocking of Kinky and Wildhorse lakes will continue at a level that allows an average catch rate of 0.5 fish per angler hour.

Recreation and Tourism

This RMA is adjacent to Jasper National Park and includes the Yellowhead Highway's gateway access to the park. A Jasper National Park management plan has been prepared that places restrictions on developments within the park. Therefore, potential exists in this RMA (including the corridor portion along Highway 16 in the Yellowhead RMA from Hinton west) to expand existing tourism operations and provide additional tourist services and facilities. These could cater to visitors using both Jasper National Park and the Coal Branch area, as well as the general travelling public. Currently, two private sector accommodations are located along Highway 16. They act as staging areas for recreation activities in the region.

The Brule Lake RMA offers excellent scenic views. The public expressed interest in

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maintaining the visual landscape qualities along Highway 16.

Wildhorse and Kinky lakes, both popular fisheries, are the focal points for recreation use. Two Alberta Forest Service recreation areas are located here. These areas have a combined capacity of 23 campsites and The Department of 14 day use sites. Recreation and Parks has long-term intentions to develop the recreational potential of the Wildhorse-Kinky Lakes area. No detailed development plans have been prepared. However, the intent is to recognize the need for recreational facilities with a high level of servicing to accommodate travellers on the Yellowhead Highway (e.g., family vacation destination resort development). The area is intended for public recreational use, and the private sector will be encouraged to participate in the provision of services and facilities to accommodate and support this use.

The non-vegetated Brule sand dunes are regionally and locally popular for OHV recreation use. A portion of the Grand Trunk Pacific railway was located at one time along the east shore of Brule Lake. Some evidence of this remains on the dunes (e.g., telegraph poles, partial remains of a train station). The vegetated dunes are susceptible to disturbance and are thus better suited to extensive forms of non-motorized recreation.

Objectives

- 1. To maintain current public recreational facilities at Wildhorse and Kinky lakes.
- 2. To maintain the capability for future recreation development in the Wildhorse-Kinky lakes area (Zone 4).
- 3. To recognize touring opportunities along Highway 16 and the potential for associated facility developments (e.g., pull-off viewing areas, signs).
- To recognize the Brule Lake sand dunes significance as a natural feature through interpretive signs and facilities.

- 5. To allow OHV recreation use on the Brule Lake non-vegetated sand dunes (Zone 4).
- 6. To manage the scenic landscape qualities along the Yellowhead Highway (i.e., to the line of sight), especially near the Jasper National Park entrance (Zone 4).
- 7. To support expansion of existing tourism facilities and services, as demand warrants.
- To provide opportunities for commercial tourism developments and associated recreation activity developments.
- 9. To retain public access to public land along lakes, rivers and streams.

Guidelines

- 1. Timber harvesting and other developments within the line of sight of Highway 16 and the Athabasca River will be planned in an aesthetic manner.
- Business counselling will be provided by the Department of Tourism to existing and potential tourism operators interested in expanding their operations or developing new tourist services or facilities.
- 3. The Department of Recreation and Parks, in conjunction with other agencies such as the Department of Tourism and the Department of Forestry, Lands and Wildlife, will work with any potential private sector operator interested in developing tourism and recreation opportunities on lands reserved by the Department of Recreation and Parks.
 - Development of scenic viewing or interpretive pull-off areas will be considered within the Highway 16 twinning program (from Edmonton to the junction of Highway 40). If found to be feasible, the departments of Tourism and Culture and Multicul-

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turalism, as well as other interested agencies, will assist the Department of Transportation and Utilities in identifying sites along Highway 16 that have potential for development of pulloff areas.

5.

The Department of Tourism will assist, where possible, in any endeavours by other government agencies or local groups interested in developing interpretive facilities and signs that are appropriate for the Brule Lake sand dunes area.

6. Dispositions that preclude public access along lakes (particularly the Kinky-Wildhorse lakes complex), rivers and major streams will not be issued.

Historical Resources

Archaeological - The Brule Lake RMA, the smallest RMA within the Coal Branch, consists of a broad flat valley initially carved by the Athabasca lobe of the Cordilleran ice sheet and later filled by glacial Lake Athabasca. This broad, open area was probably a major wintering zone for ungulates from adjacent areas that are now a part of Jasper National Park. The presence of these animals in Brule Lake undoubtedly provided a major attraction for prehistoric peoples. The fact that the Athabasca valley is a major corridor between interior British Columbia and Alberta is also a factor for consideration in determining the area's potential for prehistoric occupation.

A large number of sites have been identified on the shores of Brule Lake immediately west of the planning area boundary (one older than 8000 years), demonstrating the frequent use of this area during prehistoric times. Although possibly to a lesser extent, similar occurrences may be present along the shores of the lake within this RMA.

Elsewhere in the Brule Lake RMA, several sites have been recorded along smaller drainages (Maskuta and Drystone creeks). It is expected that additional finds could be made along these creeks. Sites identified on the shores of Wildhorse Lakes demonstrate the use of aquatic and wetland species in this area. It is also expected that the other small lakes and

Brule Lake RMA

is also expected that the other small lakes and wetlands within the RMA will contain sites relating to exploitation of these resources around their margins. Finally, the alluvial gravels along the shores of the lake may have provided uscable materials for stone tool manufacture and may suggest the presence of workshop sites nearby.

The possibility of very significant stratified sites exists in this area. Unlike many other portions of the planning area, soil deposition, which could have resulted in the geological separation of repeated occupations of the same landform, is an important feature of this region. The source of this soil deposition is windblown loess derived from glacial action up the valley. Sand dunes in this area are the most likely locations for such sites.

Palaeontological - To date, very little palaeontological investigation has occurred in this RMA, and there are no known fossilproducing sites in the area. However, the RMA is representative of the foothills physiographic region, which has produced fish and dinosaur remains in RMAs to the east. Exposures are present in river valleys, roadend railway cuts, abandoned mine sites and along ridges throughout the RMA, and the area is considered to have high potential for the discovery of fossil remains.

Historic Period - Historically, evidences of a past railway bed are still present in this RMA.

Objective

1. The broad historical management objectives apply.

Guidelines

- 1. Any major development in the RMA, such as coal-mining, limestone quarrying or road construction activities, should be preceded by a palaeontological impact assessment.
- 2. The Archaeological Survey of Alberta will participate in the land use referral process to review developments proposed in areas of the RMA

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Brule Lake RMA

considered to have historical resource potential. The historical resources sensitivity map will outline areas of historical resources potential for which the Department of Culture and Multiculturalism will request referral of proposed development projects.

Rangeland

The demand for more rangeland for horse use will coincide with Hinton's increasing population and with the tourist industry's needs. At present, some horse-holding areas and limited grazing opportunities are provided.

Objectives

- 1. To encourage the expansion opportunities for grazing where compatible with other resource uses.
- 2. To encourage intensified management of forage resources and grazing opportunities in order to meet local need.
- To ensure that good range condition is maintained.

Guidelines

- 1. Range management plans must recognize the need for intensive management of vegetation on eolian soils.
- Grazing opportunities will be provided on a need basis and in consideration of wildlife, recreation and tourist values.
- 3. Authorized horse use of the forage resources will be monitored and managed.

Settlement

The Drystone Subdivision is within this RMA. This subdivision is for recreational-type developments.

Objectives

- 1. To encourage further recreational developments to occur within the Drystone Subdivision.
- 2. To encourage consideration of the area's visual aesthetic quality in all further developments.

Guideline

1. Resource management agencies will consult with the Improvement District of Yellowhead, No. 14 when determining land uses on a site-specific basis.

Access

Gateway access to Jasper National Park is provided through this RMA. The Department of Transportation and Utilities is currently twinning Highway 16 (up to the junction of Highway 40). It is recognized that access routes for developments along the highway will be extremely limited west of the Drystone Subdivision. Reasons for this access limitation are topography and safety.

An access management area will apply to the Brule Lake Zone 2 area. An OHV access corridor will be provided through this area to the Brule Lake non-vegetated sand dunes area.

Objectives

- 1. To protect the visual qualities along the Yellowhead Highway (to line of sight).
- 2. To recognize the limited opportunities for roadway intersections onto Highway 16, west of the Drystone Subdivision.
- To provide an OHV access corridor through the Brule Lake Zone 2 access management area.

Guidelines

1. Motorized vehicle access requests along Highway 16 will be reviewed by all interested agencies.

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The maintenance of a scenic landscape 2. quality along Highway 16 will be considered for all resource developments that are visible from the Yellowhead Highway.

An access management area restricting

3.

motorized recreation use will apply to the Brule Lake Zone 2. However, a motorized recreation access corridor will be provided through this Zone 2 area. The corridor will provide access from Highway 16 and the Overlander Lodge to the Brule Lake non-vegetated sand dunes area.

3.7 Mountain Park-Folding Mountain **Resource Management Area**

The Mountain Park-Folding Mountain RMA is an area of approximately 583 km² (225 sq. mi.) in the western portion of the planning area (Figure 10).

Ecoregions represented include Boreal Uplands, Subalpine and Alpine with the Subalpine and Alpine ecoregions covering the greatest area. In the subalpine areas, Engelmann spruce and subalpine fir are codominant. However, because of past fire history, a young lodgepole pine forest is more extensive. In Alpine areas, the vegetation varies depending on a number of factors including type of substrate, exposure to winds and insolation, slope steepness, moisture conditions and snow accumulation. Tree growth is restricted to scattered stunted subalpine fir and Engelmann spruce, which occur at lower elevations in depressional and less exposed sites. Heather communities are the dominant ground cover on gently sloped north aspects often associated with stunted tree growth. Lodgepole pine with subdominant white spruce and black spruce are the common tree species in the Boreal Uplands Ecoregion, which is found at elevations lower than the Subalpine Ecoregion.

Terrain in the Mountain Park-Folding Mountain RMA is variable and rugged, ranging from steeply sloped, forest-covered foothills to the high, barren mountain peaks characteristic of the Rocky Mountains front ranges with its

Mountain Park-Folding Mountain RMA

rugged, sharply peaked northwesterly trending ranges and valleys.

> The management intent for the Mountain Park-Folding Mountain RMA is to recognize a varied range of provincially significant resources such as coal, wildlife, extensive recreation, tourism and historical resources. A limited range of other multiple use activities will also be provided, while recognizing the importance of watershed protection.

Water and Watershed

Being mainly within the Alpine and Subalpine ecoregions, this RMA produces relatively high volumes of clean water. The headwaters of the McLeod River are in the Mountain Park and Cardinal Divide area. Streams in these headwaters have high gradients, low drainage density and high runoff efficiency. This results in a quick initial response to storms. The stream channels have low banks and coarse, gravelly beds. Major tributary creeks in the McLeod River headwaters include Whitehorse, Harlequin, Drummond, Cadomin, Prospect, Thornton and Cheviot.

Drinnan, Sphinx and Berrys creeks are tributaries of the Gregg River which also starts in the northern portion of this RMA. They flow through rugged, mountainous terrain.

Slope steepness is a concern in watersheds throughout the RMA. However, because the soils are generally shallow, coarse and often calcareous, erosion and water quality concerns are minor. Soil conservation practices will be required to maintain the productivity of the area because of the shallowness of the soil Overall, extensive resource resources. developments are less of a concern than the larger intensive developments that can be difficult to reclaim and have a potentially negative impact on both water quality and quantity.



APPENDIX 3: SAMPLE DESCRIPTIONS AND ASSAY RESULTS FROM THE FOLDING MOUNTAIN PROPERTY

Notes: Stratigraphic thicknesses are based on measured attitudes of bedding listed below, with appropriate interpolations. Attitudes are strike and dip (right-hand rule). Sections are listed in numerical order of samples, which does not necessarily represent stratigraphic order. Most samples consist of chips at 30 cm intervals. UTM coordinates are NAD83, Zone 11N. Section locations are shown in Figure 4.2. Stratigraphy Abbreviations: Mpk - Mississippian Pekisko Formation; Mtv - Mississippian Turner Valley Formation; Tw - Triassic Whitehorse Formation



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Sample	Strat Unit	Strat Tkns (m)	Description	CaCO; (%)	MgCO ₃ (%)	SiO2 (%)	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	SrO (ppm)	MnO (ppm)	P ₂ O ₅ (ppm)
Isolated Sa	mples										
49876	Tw	3.5	<u>Sandstone</u> , light grey to white weathered, light grey fresh, fine-grained to medium-grained, fossils: solitary rugose coral, massive, alteration: oxide, localized, strong fetid odour, no HCl reaction, structure(s): joint, outcrop-scale, 37/71 SE; joint, outcrop-scale, 128/35 SW; bedding (definite) 302/40 NE	0.82	0.23	27.77	1.036	0.701	55	34	1213
49877	Mtv		Dolomitic Mudstone, tan to light grey weathered, light tan-grey to tan-grey fresh, micritic, resistant, vuggy, weak HCI reaction, structure(s): joint 310/89; joint 214/89 NW; bedding (possible) 128/38 SW	54.51	43.51	1.47	0.143	0.199	160	500	50
49878	Mtv	2	<u>Dolomitic Mudstone</u> , tan to medium grey weathered, light tan-grey to tan-grey fresh, micritic, resistant, nodular, weak HCI reaction, structure(s): joint, outcrop-scale, 20/60 E; bedding (definite) 146/32 SW	54.44	44.12	0.95	0.105	0.207	96	851	50
49879	Mtv		Dolomitic Mudstone, tan to medium grey weathered, light tan-grey to tan-grey fresh, micritic, resistant, nodular, alteration: oxide, fracture-related, weak HCl reaction, structure(s): fracture, outcrop-scale; calcite veinlet, outcrop-scale; bedding (undulatory) 144/45 SW	54.45	42.63	2.03	0.305	0.320	86	548	110
49880	Mtv	0.5	Dolomitic Mudstone, tan to dark grey weathered, medium grey to dark grey fresh, micritic, pockety, nodular, weak HCI reaction, structure(s): bedding (undulatory) 136/32 SW	50.67	40.86	6.06	1.012	0.581	97	740	50
49881	Mtv		Dolomitic Mudstone, tan to medium grey weathered, light tan-grey to tan-grey fresh, micritic, resistant, nodular, vuggy, alteration: oxide; limonite, strong fetid odour, strong HCI reaction	56.02	42.17	0.99	0.157	0.428	115	226	375
49882	Mpk		Lime Mudstone, light grey to medium grey weathered and fresh, micritic, resistant, strong HCI reaction, structure(s): calcite veinlet, outcrop-scale, weak; bedding (definite) 128/22 SW	96.45	1.86	1.08	0.200	0.096	379	24	50
49977	Mtv	1	Dolomitic Mudstone , tan weathered, fresh, fine-grained to fine-grained, massive, vuggy, weak HCl reaction, structure(s): bedding (undulatory), outcrop-scale, 128/36 SW	53.42	41.65	3.84	0.277	0.484	92	396	50
49978	Mtv	3	Dolomitic Mudstone , white to tan weathered, medium grey fresh, fine-grained to fine-grained, moderately-bedded, vuggy, alteration: oxide, localized, 20-40% intensity, weak (powder) HCI reaction, structure(s): joint, outcrop-scale, 222/90; calcite veinlet, outcrop-scale; bedding (definite), outcrop-scale, 128/36 SW	54.61	43.49	1.29	0.234	0.137	99	272	50
49979	Mtv	0.25	Argillaceous Dolomitic Mudstone, light tan-grey weathered, medium grey to light grey fresh, very fine-grained to very fine-grained, thickly-bedded, weak (powder) HCI reaction, structure(s): fracture, outcrop-scale; calcite veinlet, outcrop-scale, very weak; bedding (definite), outcrop-scale, 143/29	50.92	40.50	6.82	0.650	0.497	86	484	50
49980	Mtv	3	Dolomitic Wackestone , medium brown-grey weathered, fresh, fine-grained to coarse-grained, fossils: solitary rugose coral, very rare; crinoid ossicle, common; bivalve, common, vuggy, strong fetid odour, very strong HCI reaction, structure(s): fracture weak	57.70	41.34	0.58	0.096	0.145	71	134	50

Sample	Strat Unit	Strat Tkns (m)	Description	CaCO ₃ (%)	MgCO ₃ (%)	SiO2 (%)	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	SrO (ppm)	MnO (ppm)	P ₂ O ₅ (ppm)
49981	Mtv	5	Argillaceous Dolomitic Mudstone, tan-grey to medium brown weathered, medium grey fresh, cryptocrystalline to fine-grained, moderately-bedded, alteration: silica, 40-60% intensity, strong fetid odour, weak (powder) HCl reaction, structure(s): fracture; bedding (definite), outcrop-scale, 136/40 SW	52.72	41.86	3.72	0.685	0.467	97	476	50
49982	Mtv	2	Dolomitic Mudstone , orange-brown weathered, light tan-grey fresh, micritic to very fine-grained, moderately-bedded, alteration: silica, strong fetid odour, weak (powder) HCl reaction, structure(s): joint, outcrop-scale, 240/80; fracture, outcrop-scale, weak; bedding (definite), outcrop-scale, 130/34 SW	50.55	40.23	6.63	0.906	0.776	102	1212	282
49983	Tw	4.5	Dolomitic Lime Mudstone , orange-brown weathered, light grey to medium grey fresh, very fine-grained to very fine-grained, moderately-bedded, alteration: silica; oxide, banded, strong fetid odour, weak (powder) HCl reaction, structure(s): bedding (definite), outcrop-scale, 130/28 SW	12.42	8.10	41.23	3.288	0.904	58	2977	3307
49984	Mtv	4	Dolomitic Mudstone , medium grey weathered, light tan-grey fresh, micritic to micritic, vuggy, alteration: oxide, strong fetid odour, moderate HCl reaction, structure(s): calcite veinlet, outcrop-scale, weak	54.38	42.57	2.28	0.200	0.297	92	418	50
49985	Mtv	3	Dolomitic Mudstone , white to tan weathered, medium grey fresh, fine-grained to fine-grained, thinly-bedded, resistant, vuggy, strong fetid odour, weak (powder) HCl reaction, structure(s): joint, outcrop-scale, 287/46 N; calcite veinlet, outcrop-scale; bedding (definite), outcrop-scale, 124/40 SW	47.83	38.18	12.46	0.277	0.439	92	1093	135
49986	Mtv	3	Dolomitic Mudstone to Clastic , white to tan weathered, medium grey fresh, fine-grained to fine-grained, resistant, nodular, alteration: oxide, 40-60% intensity, strong fetid odour, weak (powder) HCI reaction, structure(s): joint, outcrop-scale, 352/58 E; bedding (definite), outcrop-scale, 120/40 SW	54.37	42.70	1.94	0.286	0.339	100	1312	100
49987	Mtv	2.5	Dolomitic Mudstone to Clastic , white to tan weathered, medium grey fresh, fine-grained to fine-grained, resistant, nodular, alteration: oxide, 40-60% intensity, strong fetid odour, weak (powder) HCI reaction, structure(s): bedding (definite), outcrop-scale, 128/35 SW	51.33	40.27	6.87	0.534	0.397	100	439	122

APPENDIX 4: ANALYTICAL LABORATORY INFORMATION AND TECHNIQUES

Name and Address of the Lab:

Graymont Western US Inc., Central Laboratory. 670 East 3900 South, Suite 200 Salt Lake City, Utah, 84107

Statement of Qualifications:

Jared Leikam obtained a B.S. in Chemistry from the University of Utah in the class of 2003. Jared started working for Graymont in February of 2004 and has been working with the ICP Spectrometer for two and a half years, under the direct supervision of Carl Paystrup (Lab Supervisor).

Vonda Stuart obtained a B.S. in Chemistry from Weber State University in 2004. Vonda started with Graymont in August of 2007 and started working in the ICP Lab the following September.

Sample Preparation, Procedures, Reagents, Equipment, etc.:

For the ICP sample preparation, 0.5 grams of the sample is mixed with 3 g of lithium carbonate. The sample and the lithium carbonate are then fused together in a muffle furnace at 850°C. Following the fusion process, the samples are dissolved in 1:1 HCl; a total of 40 mL 1:1 HCl is used in the dissolving process. The samples are then diluted to 200 mL and spiked with 10 ppm Co. Cobalt is used as an internal standard. At this point the samples are ready for analysis on the Perkin Elmer, Optima 7300V.

Mesh Size Fraction, Split and Weight of Sample:

Upon receiving the samples, the prep room technician riffles and then splits the stone down to a manageable size (roughly 200 g). The stone is then dried in an oven at 120°C. Once the samples have been dried they get pulverized to a -200 mesh size. A split of this pulverized material is then sent for testing in the main part of the lab.

Quality Control Procedures:

The ICP spectrometer is calibrated with two certified reference materials prior to analyzing a batch of samples. A batch typically contains 96 samples. Every 12th sample in a batch is a certified limestone reference sample. In addition to the 8 reference samples imbedded in the batch, there are 2 limestone reference samples analyzed at the beginning and at the end of the batch to ensure the accuracy of our Na and P numbers. Every element being analyzed in a sample is backed up by data from the certified reference materials. We also use an internal standard (10 ppm Co) to further ensure the quality and accuracy of the analysis.

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							-										-	
41.15	43.50	2.35			TO DOLOMITIC LIME MU	DSTONE TO	80351	41.83	43.50	1.67	58.43	36.36	4.30	0.33	0.86	299	0.13	79
		WACKESTONE (Banff) medium-grey to dark-grey, fg to mg, shell fragments, overall dolomite: 60-70% p	a: 60 70% present					-			-				-			
		50 2.35 CALCAREOUS DOLOMITIC MUDSTONE TO DOLOMITIC LIME MUDSTONE WACKESTONE (Banff)	e. 60-70% present	-	_			-		-								
											1	-						
																	1	
			lower contact is sha	rp, stylolitic, ~89° to C	A									10				
10.50	45.00	1.50	I INTE MUDOTONIE T															
43.50	45.03	1.53		O WACKESTONE (Upper Palliser) fragments, overall calcite:	FOV and the	80352	43.50	45.03	1.53	94.79	3.05	1.51	0.19	0.34	370	0.05	47
					ickestone is well to modera					-				-				-
					mostly open vugs), moder								-					
			throughout, strong r								10.2			1				
											1			1			12.0	1
-			lower contact is sha	rp, broken				-		-	-			0				
45.03	48.69	3.66	CALCAREOUS DOL	OMITIC MUDSTONE	TO DOLOMITIC LIME MU	DSTONE TO	80353	45.03	46.53	1.50	67.88	29.81	1.46	0.16	0.26	369	0.03	62
40.00	40.05	0.00	PACKESTONE (U		TO DOLOWITIC LIVE NO	DOTONE TO	80354	46.53	48.03	1.50	59.04	35.90	3.72	0.10	0.28	345	0.03	
					fragments, overall dolomit	e: 30-80% present	80355	48.03	48.69	0.66	80.55	16.65	1.53	0.15	0.35	408	0.09	-
_	12		as mottles and band	ds, overall calcite: <5%	present in rare vugs and	rare veinlets, well		1000		1.22								
			to moderately bedde	ed, b. 66° to CA, packs	stone is moderately sorted	, weakly stylolitic,					1							-
			weakly fractured thr	oughout, competent, v	veak to moderate reaction	with HCI		-			-		-	1.1		15	1	
		-	lower contact is also	-97º to CA			-			-	-		-	-		-	-	-
			lower contact is sha	10 CA			-		-		-		-			1		-
48.69	51.26	2.57	ARGILLACEOUS DC	LOMITIC MUDSTON	E (Upper Palliser)	10 m	80356	48.69	50.19	1.50	60.17	28.12	7.48	0.89	2.40	420	0.05	123
			light-grey to light bro	own-grey, vfg, overall o	olomite: ~80% present as		80357	50.19	51.26	1.07	78.41	17.59	2.78		0.62	383	0.06	
		0.0	overall calcite: <5%	present in veinlets, we	ell bedded, moderately frac	ctured, locally		200	1		1			100-5	1			1
				and the second se	tervals up to 10 cm through	ghout, locally vuggy	1						19.200					18 -
			(mostly open vugs),	very weak to weak rea	action with HCI				-	-	-	-			1			-
			lower contact is sha	rp, ~82° to CA		2.12												
51.26	75.66	24.40	LIME MUDSTONE	(Linner Palliser)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		80358	51.26	52.76	1.50	71.07	26 54	1.02	0.40	0.40	644	0.07	10
51.20	10.00	21.40	the second of the second se		are rugose corals and colo	nial corals, overall	80359		54.26	1.50	71.07 85.67	26.51 12.38			0.18 0.16	611 382	0.07	
-	-				s, well to moderately bedd		80360	54.26			93.81	4.58	1.33		0.10	360	0.05	
					ocally brecciated with dold			55.76		1.50	94.92	3.51	1.36	0.03	0.13	343	0.05	
			stylolitic, locally hard	d, upper 5 m has mode	erate dolomite mottling		80362				91.11	5.94	1.97	0.10	0.28	358	0.09	
	2		53.15-53.22: oran	ge-brown clay (fault zo	one?)		80363	58.76		1.50	95.43	1.65	1.56	0.08	0.26	418	0.09	
		1200				2	80364	60.26	61.76	1.50	93.95	4.90	0.70	0.08	0.11	392	0.06	29

			DIAMOND DRIL	L LO	G										
	Compa	any:	GRAYMONT WESTERN CANADA INC.	1000											
	Proj		Folding Mountain 2013							HOL	E No:		FM13	-01	
rom	То	Tkns	Description	Sample	From	То	Length	CaCO ₃	MgCO ₃		Fe ₂ O ₃		SrO	S	Mn
m	m	m	Description	#	m	m	m	%	%	%	%	%	ppm	%	ppr
				80365	61.76	63.26	1.50	96.50	2.07	0.64	0.07	0.08	445	0.07	27
_				80366	63.26	64.76	1.50	90.20	8.81	0.72	0.11	0.08	591	0.11	30
				80367	64.76	66.26	1.50	69.48	8.03	22.26	0.14	0.07	308	0.11	3
_	-			80368	66.26	67.76	1.50	92.36	1.46	5.79	0.07	0.04	480	0.04	3
				80369	67.76	69.26	1.50	97.56	1.03	0.68	0.18	0.14	1892	0.13	4
				80370	69.26	70.76	and the second design of the s	96.58	1.07	1.34	0.36	0.29	368	0.17	7
_				80371	70.76	72.26		73.37	0.86	23.05	0.22	0.08	298	0.03	6
				80372	72.26	73.76		97.65	1.15	0.49	0.15	0.05	401	0.03	6
				80373	73.76	74.76		97.81	1.74	0.55	0.10	0.06	457	0.05	
	-			80374	74.76	75.66	0.90	76.78	19.77	2.43	0.39	0.44	1	0.53	1
5.66	95.63	19.97	DOLOMITIC MUDSTONE (Lower Palliser)	80375	75.66	77.16	1.50	42.26	29.71	19.41	1.68	4.17	884	1.01	2
0.00	00.00	10.01	medium-grey to light brown-grey, micritic to vfg, overall dolomite: 50% present as finely	80376	77.16	78.66		41.26	28.91	20.01		4.39	460	1.09	
			disseminated throughout and mottles, overall calcite: <5% present in veinlets, well to	80377	78.66	80.16		45.03	32.11	15.00	and the second design of the s	3.41	204	0.76	-
-			moderately bedded, b. ~70° to CA, rare open vugs, competent, rare stylolites, very weak	80378	80.16	81.66		45.80	25.33	20.41		4.26	225	0.81	
			reaction with HCI (powder fizz)	80379	81.66	83.16		75.89	12.78	7.34	0.70	1.36	4611	0.58	_
		1	76.80-77.30: finely disseminated pyrite	80380		84.66		41.84	28.74	18.38		3.40	175	0.71	3
			81.47-81.57: isolated large open vug (10 cm diam.)	80381	84.66	86.16		32.59	22.80	27.75		3.74	129	0.67	
			86.24-86.63: less competent and highly fractured	80382	86.16	87.66	6.16	25.67	16.19	43.78	Contraction of the local division of the loc	2.33	108	0.19	-
				80383	87.66	89.16		36.66	25.50	26.50		3.13	142	0.77	3
				80384	89.16	90.66	1.50	30.93	22.47	31.59	2.09	3.78	135	1.10	3
				80385	90.66	92.16	1.50	29.56	23.72	25.63	2.61	4.71	177	1.01	3
				80386	92.16	93.66	1.50	37.45	27.93	21.82	1.89	3.96	244	0.69	3
		1		80387	93.66	95.16	and the second s	35.55	21.97	21.92	2.16	4.01	158	0.90	
_			lower contact is gradational	80388	95.16	95.63	0.47	42.71	21.44	21.79	1.83	4.37	180	0.59	3
5.63	200.25	104.62	INTERBEDDED LIME MUDSTONE TO PACKSTONE w/ DOLOMITIC MUDSTONE	80389	95.63	97.13	1.50	85.44	5.46	6.16	0.65	1.27	333	0.23	1
			medium-grey to dark-grey, micritic to cg, brachiopods, crinoid stems, rare gastropods,	80390	97.13	98.63	-	63.66	12.95	17.16		3.30	267	0.70	
			shell fragments, crinoid ossicles, rugose corals and colonial corals, overall dolomite:	80391		100.13		49.96	25.08	17.81		3.27	186	0.72	
			~30-80% present as mottles and finely disseminated, overall calcite: <5% present in veins	80392		101.63		72.50	14.87	8.53	0.88	1.93	318	0.34	
		1	and veinlets, well to moderately bedded, b. 74° to CA, rare graphitic stylolites, isolated	80393		103.13		70.18	16.07	9.76	0.88	1.88	362	0.27	
1			brown mottles, minor localized carbonaceous stringers, wackestone is poorly sorted,	80394	103.13	104.63	1.50	55.27	25.08	14.31	1.10	2.72	223	0.37	
			local vugs (mostly open), lesser bioclasts in top 5 m and bottom 17 m, weak to strong	80395	104.63	106.13	1.50	52.10	26.65	14.99	1.29	3.15	217	0.33	
			reaction with HCI	80396	106.13	107.63	1.50	61.50	20.46	13.03	1.02	2.67	284	0.26	
			99.62: rare large open vug (2 cm)	80397		109.13		68.39	13.41	12.99		2.41	416	0.32	-
			130.23-130.72: moderate oxide alteration along fractures, less competent	80398	109.13	110.63	1.50	67.14	13.62	14.16	1.05	2.63	395	0.35	
_			139.11-139.15: large open vug (2 cm)	80399		112.13		67.46	12.80	14.00		2.73	412	0.42	
_		1	139.51-139.58: orange-brown clay (fault zone?)	80400		113.63	-	60.18	14.87	17.12		3.58	373	0.79	
_		-	144.80: pyrite band (follows bedding)	80401	113.63			27.15		29.54		4.12	244	1.13	
			145.92: disseminated pyrite				1.50	63.31	13.77			3.20	501	0.45	
			150.95: graphite-filled vein		116.63			51.99	16.97			3.45	397	0.59	
_			155.52-155.64: very well-sorted, crinoidal packstone		118.13			53.97	18.54			3.40	311	0.44	
			158.40-158.64: strong calcite veining		119.63			67.39	15.04			2.35	378	0.28	
			160.63-160.65: strong mottling/soft sediment deformation 164.20: pyrite bleb (2 cm)		121.13			73.68			0.95	2.16	392	0.31	
			165.98: large calcite-filled vug (4 cm diam.)		122.63		and the second second	72.37	5.56		1.11	2.40	539	0.48	
-	-		179.95: large calcite vein (2 cm wide, ~19° to CA)		124.13			59.31	9.12		1.23	2.72	559 574	0.45	
-			183.45-183.52: large calcite vein (~18° to CA)		125.63 127.13			61.36	10.36		0.92	2.82	488	0.38	
					127.13			68.59 77.08	10.96 8.43		1.04	1.89	400	0.30	
		-	EOH = 200.25 m		130.13			77.44			0.89	1.67		0.37	

					DIAN	IOND DRIL	L LOG											
Com	pany:	GRA	YMONT WEST	ERN CANADA II	VC.													_
	oject:		ng Mountain 2	the second se		- Internet in	1		-					Hal	e No:	E	M13-	02
	Tests		Claim:	9304050869	UTM Co. ordine		De		and an all a	1.	- 40/	40	-					02
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		-			UTM Co-ordina			te Sta			n. 18/		-		Size:		NQ	
	Angle		Bearing:	041°	Easting (m):	447217.3		Finis			n. 22/		-		ising:		3.05 1	
84	63.6°		Inclination:	-65°	Northing (m):	5899717.7	Dat	te Log	ged:	Ja	n. 29/	13	T	otal D	epth:	1	98.12	m
145	64.3°		Province:	AB	Elevation (m):	1132.4	L	ogge	d By:	K. Kr	ueger							
rom	То	Tkns		De	scription	The second second	Sample			Length	-	MgCO ₃	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	SrO	S	MnC
m	m	m			scription		#	m	m	m	%	%	%	%	%	ppm	%	ppn
0.00	3.05	3.05	CASING: Overburde	n														
3.05	15.52	12.47	SILTSTONE (Sulp	hur Mountain)			00440	11.00	45.50	1.50	15.00	10.10	05.07	1.00				0.74
3.00	10.02	12.41), vfg, overall calcite: <2%	precent as rare	80413	14.02	15.52	1.50	15.60	10.48	35.97	1.29	4.01	79	0.49	371
			veinlets, moderately	v bedded, b. ~55° to C/	A, minor isolated carbonace	eous stringers.				-			Total Dep D3 SiO2 Fe2O3 All % % % % 8 35.97 1.29 4 0 40.49 1.47 2 0 40.49 1.47 2					
			hard, competent, no			sous sungers,					1000							
			11.55-12.12: stror	ng oxide alteration, stro	ngly fractured													
		-	lower contact is sha	arp			-	-					-					
15.52	37.35	21.83	WEAKLY CALCARE	OUS SHALE (Sulph	ur Mountain)		80414	15 52	17.02	1.50	12.67	6.80	40.49	1 47	2.99	72	0.45	218
), vfg, well-bedded (shaley)), b. ~70° to CA.	00414	10.02	17.02	1.50	12.07	0.00	40.45	1.47	2.99	12	0.45	210
		1	very weak to weak	reaction (in lighter colo	red beds), weaker reaction	in top 5 m		1										
			36.71-36.85: oran	ge-brown clay (fault?)														
			lower contact is sha	arp, stylolitic							-	134 64		-	Sara.			
37.35	129.97	92.62		ITIC MUDSTONE (S	ulabur Mauntain)		00445	400.47	400.07	1.50	17.01	07.10	-	1.50				
37.33	129.97	92.02	light-grey to light br	own micritic to vfg over	erall dolomite: ~20-30% mo	ttled and finally	80415	128.47	129.97	1.50	47.94	37.43	8.99	1.56	1.90	57	0.19	325
			disseminated through	ahout, overall calcite: <	5% in veinlets and rare vug	as, moderately				-								
			bedded, locally silic	ified, locally strongly vu	ggy (open, rusty and calcil	te-filled), local	-											
		1	carbonaceous string	gers and along fracture	s, highly fractured, compet	ent, hard, local	1	5.00		4 - A B	1	2 KT			1.000			
		-	graphitic stylolites, r	minor oxide alteration a	long fractures, powder fizz	reaction						100			1			
		-			61.30-64.43, 81.38-81.49, 9	92.82-92.84:	-	-		-	1						-	-
				It zone?), strongly fract chert nodule (7 cm dia			-	1		-			-					
		1 1 1		e-filled vug (4 cm diam				-				100	-	-				-
		1	66.26: small pyrite										-				-	
			100.88: pyrite-fille	d stylolite				12	1									-
			108.15-108.25, 12	23.64-124.72: highly fra	ctured intervals						1000						1	
			lower contact is grad	dational														
129.97	150.11	20.14	DOLOMITIC MUDST	ONE (Turner Valley			80416	129.97	131.47	1.50	62.77	28.64	7.42	0.42	0.28	91	0.05	205
					m is medium-grey limey ir	nterval, vfg to			132.97		78.26	21.00		0.42	0.28	136	0.05	205
-		1			ial corals, overall dolomite				134.77	1.80	58.74	39.50		0.12	0.26	75	0.02	137
		132			out, overall calcite: <5% int			134.77	135.97	1.20	54.61			0.09	0.05	66	0.00	212
					y vuggy (open and calcite-	filled)	80420		137.47		54.15	45.15		0.11	0.09	63	0.00	284
		-		n vug (~4 cm diam.) colonial coral (~9 cm),	locally fossiliferous		80421	148.61	150.11	1.50	47.89	35.10	13.51	0.55	1.93	64	0.16	207
1				rge rare calcite-filled vu				-	1									
		-	lower contact is sha				-	-							-			-

			DIAMOND DRI		3										
C	ompa	ny:	GRAYMONT WESTERN CANADA INC.									23		082	
	Proj	ect:	Folding Mountain 2013				100		200	HOL	E No		FM1	3-02	
om	То	Tkns		Sample	From	То	Length	CaCO ₃	MqCO ₃		Fe ₂ O ₃		SrO	S	Mn
m	m	m	Description	#	m	m	m	%	%	%	%	%	ppm	%	ppr
50.11	169.85	19.74	LIME MUDSTONE TO WACKESTONE (Pekisko)	80422	150.11	151.61	1.50	62.82	26.48	8.16	0.67	1.52	173	0.20	15
			light-grey to dark-grey, micritic to cg, rugose corals, shell fragments and crinoid	80423	151.61	153.11	1.50	88.56	5.04	4.08	0.55	1.08	361	0.28	97
			ossicles, overall calcite: <5% present in vugs and rare veinlets, well bedded to	80424	153.11	154.61	1.50	89.42	6.30	4.60	0.18	0.25	377	0.17	65
			moderately bedded, b. ~77° to CA, weakly stylolitic throughout, rare oxide alteration	80425	154.61	156.11	1.50	83.80	11.99	2.91	0.39	0.69	249	0.21	97
		1000	along fractures, locally dolomitic, competent, moderate to strong reaction with HCI	80426	156.11			82.73	15.48	1.45		0.20	199	0.07	66
		-	160.37: large rare fossil (coral?) (3 cm diam.)		157.61			78.60	20.08	1.28		0.23	229	0.08	72
		(C	161.10: large black chert nodule (3 cm diam.)		159.11			73.48	22.28	3.13	0.24	0.40	195	0.18	80
			168.25: fault zone (missing core)	80429	160.61	162.11	1.50	65.75	27.68	6.02	0.29	0.51	130	0.08	87
		-		80430	162.11	163.61	1.50	74.98	15.44	8.89	0.26	0.33	223	0.16	64
				80431	163.61	165.11	1.50	87.29	1.44	9.38	0.40	0.55	258	0.34	67
				80432	165.11	166.61	1.50	88.15	9.06	2.38	0.13	0.12	247	0.11	5
-				80433	166.61	167.30	0.69	81.10	16.97	1.40	0.19	0.33	272	0.08	6
-		1		80434	168.25	169.85	1.60	69.20	27.78	2.21	0.23	0.50	175	0.12	7:
	1		lower contact is gradational	22.23				1000					_		1
-				_										-	
69.85	198.12	28.27	INTERBEDDED DOLOMITIC LIME MUDSTONE (50%) w/ ARGILLACEOUS	second se	169.85			60.06	35.79	3.13		0.65	207	0.09	-
			DOLOMITIC MUDSTONE (50%) (Banff)	80436	171.00	172.82	1.82	61.43	36.88	1.42	0.20	0.21	220	0.02	8
		-	Dolomitic Lime Mudstone: medium-grey to light-brown grey, vfg, overall dolomite:					-			-	-			
-	-		30-50% in mottles and finely disseminated, overall calcite: <5% in rare vugs and		-					-				-	-
-			veinlets, well bedded, locally fossiliferous (bioclasts include shell fragments and				-			-					
			crinoid ossicles), competent, moderate to locally strong reaction with HCI		-			-							-
		1.1	Argillaceous Dolomitic Mudstone: dark-grey to very dark-grey, vfg, well to moderately bedded, b. ~75° to CA, local carbonaceous stringers, hard, powder fizz		1										
			reaction with HCI	-	1			-			-				-
		-	171.00: fault zone (missing core)									1000			-
			172.56-172.82: highly fractured, moderately vuggy					1. 1991							-
-			173.72-174.34: clay-rich, argillaceous	-											
-		-	175.75-176.65, 185.18-185.50, 186.50-187.90, 197.21-197.57; highly brecciated,												-
			clay-rich, argillaceous					-				1			
-				1 2 2							1000	10000	-		100
			EOH = 198.12 m					1							
1		1		TX EAST			199		1		-	1			
					12.20	6	12.25		1.11	3		200			
		1		C. P. S. S. S. S.	1			1 - 6 - 1	1.50		1.	12	-		
							1	13.8.5							
1.2	100 L	12-25		100						-		1		-	
		2		and be setting	0	1.162	11.00	H-LAN			1.0.2	1415	-		24
	-	3 5 5 1		S		1.00	100								
														-	
				1		1000				1					
											201				1
							120								
		100		1		120	1				1				
															1

		1				MOND DRILI	LOG	;					1		-			
	pany:		MONT WEST		INC.								-	-		-		
Pre	oject:	Foldi	ng Mountain 2	013										Hol	e No:	FA	113-0)3
Din	Tests		Claim:	9304050869	UTM Co-ordin	ates (NAD83)	Da	te Sta	rted.	Ja	n. 22/	13		Core	Size:		NQ	
	-	-		050°		447359.5							-				5.24 r	
Depth	Angle		Bearing:		Easting (m):			Finis			n. 25/				sing:			
93	60°		Inclination:	-60°	Northing (m):	5900113.7		e Log			eb. 1/1	3	Т	otal D	epth:	20	0.25	m
163.7	52.7°		Province:	AB	Elevation (m):	1160.65	L	ogged	d By:	K. Kru	leger			-				
rom	То	Tkns	1-2 1-4 E		escription		Sample	From	То	Length	CaCO ₃	MgCO ₃	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	SrO	S	Mn
m	m	m			rescription		#	m	m	m	%	%	%	%	%	ppm	%	pp
0.00	15.24	15.24	CASING: Overburde	en					-				-					
									-		12							
15.24	28.40	13.16	the state of the s		E TO DOLOMITIC LIME M	IUDSTONE TO	76722	15.24		1.50	85.63	8.35	5.06	0.25	0.47	323	0.03	11
		1	WACKESTONE (76723	16.74	and the second se	1.50	66.39	30.69	1.79	0.17	0.36	369	0.01	69
	-				tan (dark-brown to black e		76724	18.24		1.50	73.43	24.33	1.82	0.19	0.40	361	0.05	5
-		-			0% in mottles and dissemin		76725	19.74		1.50	73.30	23.12	2.79	0.24	0.63	356	0.03	7
					Icite: <5% present in veinle		76726	21.24	-	1.50	74.55	22.99	1.95	0.14	0.26	318	0.05	5
-		-			calcite veins, locally vuggy along rare fractures, weal		76727	22.74	24.24		78.60 81.99	19.14 16.72	1.74	0.10	0.16 0.13	405 384	0.05	3
				tent, weak reaction w		kiy stylolitic	80437	25.40	26.90	1.10	93.10	5.65	1.16	0.09	0.13	405	0.02	2
	1				nded pebbles and cobbles		80438	26.90			94.70	3.54	1.21	0.00	0.14	364	0.00	2
			21.12: fault zone				00400	20.00	20.40	1.00	54.70	0.04	1.21	0.00	0.10	004	0.00	-
			lower contact is gra	adational														
28.40	37.59	9.19	INTERBEDDED LIN	E MUDSTONE TO P	ACKSTONE w/ DOLOMIT		80439	28.40	29.90	1.50	96.45	1.53	1.41	0.08	0.21	375	0.05	2
20.10	01.00	0.10	(Upper Palliser)	LE MODOTORE TOT	ACITORE W DOLOWIN		80440	29.90		1.50	95.17	2.62	1.65	0.16	0.21	379	0.09	2
	1			m-grey, micritic to fg.	colonial corals, rugose cor	rals, crinoid	80441	31.40			95.86	1.53	1.84	0.11	0.28	395	0.12	3
					te: 50-80% in dolo mdst, o		80442	32.90			96.75	1.88	1.16	0.10	0.21	431	0.15	3
			<5% present in rare	e vugs and veinlets, le	ocally vuggy, packstone is	very poorly sorted,	80443	34.40	35.90	1.50	93.97	4.96	0.73	0.08	0.10	501	0.08	2
			interbeds are rarely	y thicker than 7 cm, w	eak HCI reaction in dolom	itic interbeds,	80444	35.90	37.59	1.69	84.69	6.44	8.77	0.15	0.05	347	0.12	3
				n in lime mudstone inf	terbeds						1	1000	6					
			32.60-34.70: foss						1									
-			lower contact is gra	adational						-	-						-	-
37.59	47.85	10.26		TO WACKESTONE			80445	37.59		1.50	90.83	1.49	7.34	0.05	0.04	429	0.05	3
-	-				, shell fragments, colonial of		80446	39.09	and the second se		97.88	1.03	0.74		0.12	601	0.06	4
		-			are veinlets, well to modera	ately bedded,	80447	40.59			92.83	1.03	5.43		0.33	404	0.18	5
	1	-		rong reaction with HC			80448	42.09		1.50	86.35	0.90	13.24		0.07	286	0.02	4
		-		e rugose coral beds (5	5 cm thick)		80449	43.59	the second second second		97.88	1.15	0.71	0.08	0.05	383	0.05	4
		-	41.86: large oper	n vug (3 cm diam.)			80450	45.09		the second s	97.22	1.72	0.63		0.07	398	0.06	5
			lower contact is sha	arp			76701	46.59	47.85	1.26	89.67	2.74	6.16	0.39	0.84	449	0.26	6
47.85	200.25	152.40			PACKSTONE w/ CALCARE		76702	47.85			34.09	26.90	21.29		5.03	175	1.13	2
		-			STONE (Lower Palliser		76703	49.35			46.98	32.89	13.53		2.84	495	0.67	27
					to dark-grey, micritic to cg		76704	50.85			37.03	27.91	20.05		4.09	232	0.95	29
-	-	-			chiopods, overall calcite: <		76705	52.35	53.85	1.50	66.02	19.75	9.21	0.77	1.76	4820	0.58	22
	-	-			as chert nodules, well to n											1.2		
		-			y bedding, wackestone an	nd packstone are		-			-	-			-			
			poorly sorted, mo	derate to strong reac	tion with HCI		-	-			-		-	-			-	-

			DIAMOND DRILI	LOC	G										
(Company	v:	GRAYMONT WESTERN CANADA INC.	1.5.24		1	1					-	In a		
	Projec	-	Folding Mountain 2013	1		1	12105	2.00		HOI	ENO		FM13	-03	
rom		ins		Sample	From	То	Length	Icaco.	MgCO ₃				SrO		MnC
m		m	Description	#	m	m	m	%	%	%	%	%	ppm	%	ppn
			Dolomitic Mudstone: light-grey to medium tan-brown to dark-grey, overall dolomite: ~30-					1	10	10	10	70	ppm	10	ppn
			70% present as mottles, bands and finely disseminated, well to moderately bedded, soft	1333	122.00			1	1	1.3.3		131.210	1.1.5		
			sediment deformation (mottles?) throughout (flame structures? pillows?), moderately	1976	1.1.1	1.00	103-30		1200				1 2 2 2	111	100
-	1.1.1.1.1		stylolitic, competent, locally siliceous, powder fizz with rare weak reaction with HCI		12 2 2 2	1	1.500.00	1 ado	0.00						
	1.00 March 1.	2.5	47.85-52.51, 54.15-64.78: dolomitic mudstone	1350 355		1.8		1	2555.53	19.2		-		1. 2.	
	N. N. N		52.51-54.15, 64.78-77.95: lime mudstone to packstone	1.07	0.08	1							2	1	
- 2	L'AND IN		77.95: below this point, interbedded more finely (cm-scale), well-bedded and increasingly					122							2.4
			more fossiliferous				1			1222					
1	53 3 2 3		52.51, 64.84: large rare calcite-filled vugs (3 cm diam.)												
		1	83.82-84.12, 86.00-86.18, 87.08-87.43, 88.29-88.51, 90.18-91.16: crinoidal grainstone	F-1 08	1	1		1		1			-		
-			very strong reaction with HCI							-					123
			87.00-87.04: large grey chert nodule (4 cm diam.)			-				1000		-			
		_	127.72: below this point, mostly lime mudstone, no more wackestone or packstone				1.000	1000				2.2	15.0	1	-
		-	interbeds, less grainy		1	1		1000		-					
		-	131.23: large black chert nodule (3 cm diam.) 140.46: thick calcite vein (3 cm diam.)	113		-	1	-							
		53	157.10, 157.60, 191.00: large calcite-filled vug (3 cm diam.)	-				-				-		-	-
1.4			184.50: interbeds get progressively finer, mudstones are dark-grey to very dark-grey			1	1.00					12.1			
			104.00. Interbeus get progressively inter, mudstories are dark-grey to very dark-grey												
			EOH = 200.25 m												
	and the second second	-													
		25%				1.2	1 2 3 1								
				the second	122	1.00	1000	1.1.1	1.1	1.1	15		(Second		
100				1911			100			1.5	1.20		1		
	5.00			12.0											
		-				13.23		1. S.					1.1.1.1		
	and K-YE											1. 4 6.			
				Con all	1	1	1 Startes	100	2.2. 8	1	200				
		_		200	-							1.00	1.5	199	1
_					120	1.00						13. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1000	5. 3	-
						3							1	-	
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										-					
		-			-	-	-								
															-
		-			-	10051						1100			
	1					1	-			-			-		
1.2.2		-		10.1	-			1227						-	
5			THE REPORT OF A DESCRIPTION OF A DESCRIP					1000	-					1	
	19	-							3.70				1		
			The second s	1.12.2		211	1000				1000				
1924.54	201-1		MANAL PROPERTY AND AND A DESCRIPTION OF A D	1											
	31.51			1.1.1		100									
	N/N/KG	123.2		- 11		125									
	18 19 19	1								1		1			

					DIA	MOND DRIL	LLOG	•										
Com	pany:	GRA	YMONT WEST	ERN CANADA	INC.										-			
	oject:		ng Mountain 2		-					-				Hal	e No:	E	113-0	1
		roran				1 (114 5 6 6)	-			1 .	0.5/	10				FI		14
	Tests	-	Claim:	9304050869	UTM Co-ordin			te Sta			n. 25/			Core	Size:	1	NQ	_
Depth	Angle		Bearing:	050°	Easting (m):	447185.5	Date	Finis	shed:	Ja	n. 27/	13		Ca	sing:	6	.71 n	1
			Inclination:	-60°	Northing (m):	5899973.5	Dat	te Log	aed:	F	eb. 6/1	3	T	otal D	epth:	88	8.09 r	n
			Province:	AB	Elevation (m):	1152.95				K. Kri					-			
From	То	Tkns					Sample	_	_		CaCO ₃	MgCO ₃	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	SrO	S	MnO
m	m	m	Constant of		escription		#	m	m	m	%	%	%	%	%	ppm	%	ppm
0.00	6.71	6.71	CASING: Overburde	n														
6.74	E1 OF	45.04														-		
6.71	51.95	45.24	Light brown to modi	OMITIC MUDSTONE TO CALCAREOUS DOLOMITIC MUDSTONE (Turner at-brown to medium-grey with dark-grey last 2 m, cryptocrystalline to vfg, overal omite: 20-60% present as mottles and finetly disseminated throughout, overall % present in veinlets and infiling vugs, shell fragments, crinoid ossicles and ra ose corals, mod. bedded, well bedded near top and bottom of interval, b. 78° f	ONE (Turner Valley)	76706	48.95		1.50	50.42	36.71	9.16	and the second second second	1.80	80	0.07	268	
			dolomite: 20-60% n	resent as mottles and	finetly disseminated through	id to vig, overall calcite:	76707	50.45	51.95	1.50	48.47	36.46	11.14	0.75	1.93	64	0.16	282
			<5% present in veir	nlets and infiling yugs	shell fragments, crinoid o	ossicles and rare		-			-					1		
													-					
					minor oxide alteration alo													
		1	siliceous (hard), loc	ally limey, local rare s	stylolites, weak to moderat	e reaction with HCI			-	1			-					
					st (moderate reaction with	HCI)			-			-						
				e open vug (3 cm dia	m.)		-	-	-					-				
		-	20.99-21.11: high 24.30: orange-bro						-	-							-	
				te-filled vug (3 cm dia	m)		-	1		-							+	
		1			red, clay infilling fractures,	fossiliferous	-		-								1	
				colonial coral bed (~4														
	-			rugose coral (2 cm di														
					st, with crinoid ossicles and	d shell fragments												
				e rare rugose corals (1.5		-	-		1			1
		-	44.81-47.85: high	ily fractured, broken w	vith clay infilling fractures				-							_		
			lower contact is sha	arp, beginning of high	ly fractured interval											-		
51.95	69.95	18.00	LIME MUDSTONE T	O WACKESTONE	(Pekisko)		76708	51.05	53.45	1.50	62.38	26.00	8.64	0.72	1.53	177	0.05	180
		1			ark-brown), micritic to cg, o	overall calcite: <5%	76709	53.45		1.50	93.81	3.66	1.76		0.44	411	0.00	72
		1	present in veinlets	and vugs, brachiopod	s, colonial corals, rugose c	corals, shell fragments,	76710	54.95		1.50	91.22	4.87	3.39		0.24	399	0.13	67
			well to moderately	bedded, locally styloli	tic, wackestone is very poo	orly sorted, locally	76711	56.45	57.95	1.50	84.76	11.82	2.02	0.27	0.41	268	0.08	79
					e corals between 6-10 cm,	competent overall,	76712	57.95		1.50	85.46	12.82	1.02	0.18	0.17	270	0.04	60
				inor calcite veining the	roughout		76713	59.45		1.50	91.77	5.61	1.65	0.28	0.39	372	0.09	66
		-	51.95-52.15: high		20 70% from stables		76714	60.95		1.50	76.69	17.55	4.16		0.40	233	0.09	128
					~30-70% from etching , 65.48-65.51: intense oxid	te alteration	76715	62.45 63.95		1.50	59.45	28.24	7.38	0.77	1.87	170	0.36	107
	6			e rugose and colonial			76716	65.45		1.50	88.06 86.49	2.95 4.16	5.74 6.70	0.86	1.13	268 270	0.76	110 244
							76718		68.45	1.50	85.42	12.28	2.02	0.24	0.10	289	0.09	64
		1	lower contact is gra	adational					69.95			15.52			0.24		0.16	
69.95	75.12	5.17	DOLOMITIC MUDST	TONE TO DOLOMITI	C LIME MUDSTONE (B	anff)									-			
					rystalline to vfg, overall do													
		-			alcite: <5% in vugs and rar		-					-	_		12.00	1		
				the service of the second s	to moderately fractured, n	Constanting of the second s	-		-			-				-		
	-			v-rich zone (fault?)	noderate reaction with HCI		1											
2		12000		e rare colonial coral b	ed (14 cm thick)		-										+	

C			DIAMOND DRIL		-			12.00							
	Compa	iny:	GRAYMONT WESTERN CANADA INC.												
	Proj	ect:	Folding Mountain 2013	14 J 14					- AVE	HOL	E No:	1.19.0	FM13	-04	
From		Tkns	Description	Sample		То			MgCO ₃						MnO
m	m	m	73.10: large calcite-filled vug (2 cm diam.)	#	m	m	m	%	%	%	%	%	ppm	%	ppm
			73.10. large calcite-lilled vug (2 cm diam.) 73.50-73.70: strongly vuggy (open)	-					-						
-				-						1 1	199	1	TO DE T		
		-		1		-		-							
			lower contact is sharp, beginning of argillaceous zone	-		1		-						-	
75.12	88.09	12.07				-								-	1
15.12	66.09	12.97	ARGILLACEOUS DOLOMITIC LIME MUDSTONE TO DOLOMITIC MUDSTONE (Banff) medium-brown to very dark-grey, micritic to vfg, overall dolomite: 50-60% present as	-		-						1000			-
			bands, finely disseminated and mottles, overall calcite: <5% present in veinlets,	-			-							-	177
														-	
	- togethe	-	increased amount of calcite veins near bottom, well-bedded, locally vuggy (open), local	-					-	2.0	-				
			oxide alteration, locally brecciated, local carbonaceous stringers, dolomite content			-				-		-		-	-
		-	decrease with depth, very weak (powder fizz) to strong reaction with HCI	-			-						-		-
			76.11: fault, clay-rich zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-			1		2				-	
			78.33: fault	-											-
			80.30-80.61: black, carbonaceous, good reaction with HCI	-								_	-		-
		-	81.38-84.77: argillaceous dolomitic lime mdst	-	-									1	-
		-	82.30-88.09: highly broken, fractured, clay-rich zone	-		-					1.1	-		-	
_			87.22-87.30: rare colonial coral bed (8 cm thick)	-			-	-		-				-	-
			FOU = 99.00 m						-						
			EOH = 88.09 m	-	-										
		-				1									1
										1					
			and the second second states and the second s	1- 11	-			1	100 - 10					. 10	1
-		1													
			The second se		-						3				
_			Contraction of the second s		1 3 6 1		1			1000	1.1	1000			
	10 10					1	-	1	1	1.00				1	
		-		1					1	1				1.25	
			A REAL PROPERTY OF A REA	1000	10000	170		1995	1013	10995	1	12.31		12	
		1		1 2 2 2 2	1		1 2 2 2		1000	12		1997			1
											-				
200	22.	Sale										2			
-	C. S. S.	100	The second s	-		1 33	-						CURCES (
1.1.1.1	1.1	-							415	199		-			
	-							-							
						-									
			CONTRACT FOR STATES OF STATES	1.00	1000	1000		1000			1.1.1.1.1.1		1 2 1 1	1	
								1100	1		-	1.7			
	1					100			1	1 1 1 1		1			
1.25	12121	-			1010	-			1000	-	1000				1
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				-								-			-
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						-			-						-
				-	-							-			-

	_					MOND DRIL	L LOC	G	1									
	pany:			ERN CANADA	INC.													
Pr	oject:	Foldi	ng Mountain 2	2013								120		Hol	e No:	FN	113-0)5
	Tests		Claim:		UTM Co ordin	ataa (NAD02)	De	te Sta	uto als	1	n. 27/	40					NQ	
	1	-			UTM Co-ordin							1. 2.		Core				
Depth	Angle		Bearing:	047°	Easting (m):	447252.4	Date	e Finis	shed:	Ja	n. 30/	13		Ca	sing:	10	.36 n	n
			Inclination:	-60°	Northing (m):	5900028.0	Dat	te Log	ged:	F	eb. 5/1	13	T	otal D	epth:	81	.69 n	n
100			Province:	AB	Elevation (m):	1143.47	L	ogge	d By:	K. Kr	ueger	1			-			
rom	То	Tkns		D	Description		Sample	From	То	Length	CaCO ₃	MgCO ₃	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	SrO	S	MnO
m	m	m				and the second	#	m	m	m	%	%	%	%	%	ppm	%	ppm
0.00	10.36	10.36	CASING: Overburde	ən			1				1000	12						
10.36	23.70	13.34					-	-							12		1	
10.30	23.70	13.34			E TO DOLOMITIC LIME M		-	-	-	-						-		
		-			erall dolomite: 40-70% pres e: <5% present in vugs, we			-		-	-	-			-		-	-
-		-	bedded b ~00° to	CA moderate to stre	e. <5% present in vugs, we	ell to moderately	-	-	-	-	-				_			
		-			gy, shell fragments, bivalve			-	-	-			-	-		1		-
	1	1		oderate to strong read		es, rugose corais,		-	1	-								-
227	1		11.28-17.37: argi				-	1		-								
					usty-orange), weaker react	tion with HCI		15 00		1-25								
_			lower contact is ch	arp, beginning of clay	rich interval				1									
											1							
23.70	38.16	14.46		ILTY DOLOMITIC ML							1.000		-	1				
		-			dolomite: 20-30% finely di		_		-		E	-			-			
					vell to moderately bedded,			-			-		-					-
-		-			, oxide alteration in rare vu omite matrix, moderate rea			-	-					1				
					onaceous mudstone/shale		-				-		-					
121			31.09-31.16: rare	e large colonial coral ((~3 cm)	(no HCI reaction)	11				1							
			lower contact is sha	arp, beginning of clay	-rich interval					-					-			
20.40	54.57	10.11			E Part of the Part													
38.16	51.57	13.41			E TO DOLOMITIC LIME M 0-70% banded and finely di		1				he da							
					and rare vugs, well to mode			-		-	1		-			-		
	1	-	graphitic stylolites.	locally brecciated, me	oderately to highly fracture	d. local open yugs.			1									
					res, locally carbonaceous b							1						
	1.1			rate reaction with HC					13.5				1					
			44.81-44.87, 45.9	92-46.12: orange-bro	wn clay (fault?)		PLAN		150	1.	1	13.4.4						
	1		46.14-46.40: high	nly brecciated and fra	ctured		a decision				1							
		-	48.82: large calci	ite-filled vug (3 cm dia	am.)													
51.57	81.69	30.12	ARGILLACEOUS D	OLOMITIC LIME MU	DSTONE TO WACKESTO	NE (Banff)					-					_		-
		1000	medium-grey to da	rk-grey with local bro	wn beds (staining), overall	dolomite: 20-70%	1				1					-		-
	1				ated, overall calcite: <5% p		Carles 1	1211	0.00		1	1.2.7				- 12		
					86° to CA, local oxide altera							1						
-			fractures, locally ca	arbonaceous, locally s	stylolitic, locally vuggy, crin	oid ossicles,					1							
	12		colonial corals, rug	ose corals, brachipod	is, shell fragments, very we	eak calcite veining,			1.00			1.000		1				
			locally shaley, clay	increase near end of	hole, very weak to strong	reaction with HCI	1										122	
): clay-rich (orange-brown)	zone (fault?)		-				-						
-				nly fractured and brec			-											
-		1.5	59.87-67.10: zon	e of less argillaceous	mudstone to wackestone				1									

(Compa	nv.	GRAYMONT WESTERN CANADA INC.	AND STREET					1.1.2		199.65	1.2.4			
255	Proj		Folding Mountain 2013	and the second						HOI	E No		FM13	-05	20.3
rom	To	Tkns		Sample	From	To	Length	10200	Maco						MnO
m	m	m	Description	#	m	m	m	%	%	%	%	%	ppm	%	ppm
			66.73-67.04: brachipodal packstone interval					1	10	10	10	10	PPIN	14	PPIN
	144.5	1	68.67-69.19, 87.12-87.62: highly brecciated and broken, clay-rich	1	100	2.5				2.1					
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