

# MAR 20000024: RACEHORSE CREEK

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20000024  
DEC 18 2000

PAT DWYER CONSTRUCTION INC.

Box 38, Lundbreck, Alberta T0K 1H0  
Phone/Fax:403-628-2291 / 403-628-2191

DEC 15 1 27 PM '00  
RESOURCE DEVELOPMENT  
EDMONTON  
ALBERTA

December 11, 2000

Mineral Agreements and Sales  
Alberta Resource Development  
9915 - 108 Street  
Edmonton, Alberta T5J 2G6

Attached are 2 copies of the assessment work report for Metallic and Industrial Minerals Permit No. 9398080055. We wish to surrender the majority of the land base covered in this Permit, and will retain the following two areas identified as :

1. Mineral Surface Lease No. MSL 001112, part of LSD 1, SE ¼, Sec. 16, Twp. 10, Rge. 4, W of 5, consisting of 1.9 ha (approximately 4.84 acres) for the purpose of extracting shale
2. A total of 54 ha. (approximately 135 acres), contiguous, consisting of parts of LSD 15 & 16; the north ½ of the NE ¼, 7-10-4, W of 5 (approx. 26 ha./65ac.) PLUS that portion of the SE ¼, 18-10-4, W of 5 lying south of Racehorse Creek (approx. 28 ha/70 ac) for the purpose of extracting riprap.

All expenditures during this assessment period are assigned to these two locations which total approximately 55.9 ha (139.4 acres).

If you require any further information, please do not hesitate to contact me at (403) 628-2291.

Respectfully yours



Pat Dwyer

# ASSESSMENT REPORT

## RACEHORSE CREEK SHALE AND RIPRAP PROJECT

PAT DWYER CONSTRUCTION INC.  
P.O. BOX 38  
LUNDBRECK, AB T0K 1H0

December 11,2000

Submitted by: Pat Dwyer

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**Attached:**  
Permit Location Map

## STATEMENT OF EXPENSES

Description	Cost (\$)	Total Cost (\$)
<b>Salary and Wages</b>		
Supervision-4 days @ 300	1200	
Report preparation-4 days @ 120	480	
Clerical-1/2 day @ 120	60	
Equipment operators-6 days @ 120	720	2460
<b>Equipment -rates include fuel &amp; moving</b>		
Backhoe- 3 days @ 730	2190	
Tandem truck-3 days @ 270	810	
Pickup truck - 3days @ 100	300	3300
<b>Contracted Services</b>		
Sample analysis-lab. Costs	1600	1600
<b>Office Charges, Admin., General</b>		
Photocopies, map reproduction	22	
Consumables	15	
Office overhead (2%)	147	184
<b>Grand total</b>		<b>7544</b>

I certify that these expenditures are valid and were incurred in conducting assessment work on the above permit.

Signed: \_\_\_\_\_



Signature/Stamp  
Commissioner for Oaths

ALAN MARTINI  
Exp Aug 3, 2001

## CANCELLATIONS AND AMENDMENTS

### PERMIT NO. 9398080055:

Land retained:

- |  |               |
|--|---------------|
| • Covered by MSL 001112, SE ¼, 16-10-4, W5                     | 1.9 ha.       |
| • Parts of NE ¼, 7-10-4, W5, and parts of<br>SE ¼, 18-10-4, W5 | <u>54 ha.</u> |
| <b>Total</b>   | <b>55.9ha</b> |

The balance of the lands under this permit are to be returned to the Crown.

## ALLOCATION OF EXPENSES

### Permit No. 9398080055

Area : 9216 ha

Expenditure required: \$46,080

Expenditure assigned: \$ 7,544

Lands retained: 55.9 ha.

Expenditure required: \$279.50

Expenditure in excess: \$ 7264.50

## SUMMARY REPORT

Assessment work on Permit No. 9398080055 for the initial two year period consisted of defining locations for shale extraction, and exploring for a source of competent riprap of various sizes. Ground exploration identified a potential source of shale, and a bulk sample to ascertain suitability for a clients application was obtained and delivered. A Mineral Surface Lease for the location has been secured.

Exploration for competent riprap involved accessing the area by existing roads and trails to identify locations containing on-surface materials that would be suitable for size and hardness, and that could be recovered with reasonable costs for providing access. Adequate hand samples were collected, and shipped to a laboratory for competency testing.

Total costs for assessment work during the two-year period were \$7544, which is in excess of the two year expenditure required for the 55.9 hectare area that is to be retained. The amount spent exceeds the two year requirement for expenditure on 55.9 hectares by \$7264.50, and we request therefore that the Minister credit the excess amount against the minimum spending requirements for any subsequent two year period , consistent with Sec. 14 (2) and 14 (3) of Alberta Regulation 66/93, Mines and Minerals Act, METALLIC AND INDUSTRIAL MINERALS REGULATION.

**Authorization to Reproduce or Copy**

Pat Dwyer Construction Inc. hereby authorizes the Government of Alberta to reproduce or copy the attached Assessment Report at the end of the one year confidentiality period.



X  
Pat Dwyer, President  
Pat Dwyer Construction Inc.



**PAT DWYER CONSTRUCTION INC.**

P.O. BOX 38, Lundbreck, AB T0K 1H0  
Phone/Fax: 628-2291 / 628-2191

March 13, 2001

Alberta Resource Development  
Coal and Mineral Development  
7<sup>th</sup> Floor, North Tower, Petroleum Plaza  
9945 - 108 Street  
Edmonton, AB T5K 2G6

Attention: Hazel Henson, Administrative Officer  
Coal & Mineral Development

MAR 19 11 31 AM '01  
RESOURCES DEV.  
ENVIRONMENT  
MAILROOM 1

Dear Hazel Henson,

Re: Metallic & Industrial Minerals Permit No. 9398080055  
Assessment Report No. 20000024 Racehorse Creek Area

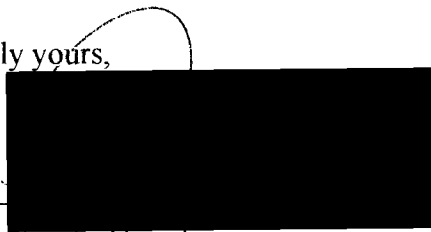
In response to your letter of February 6, 2000, we have attached copies of the following requested information for your review:

- Lab report for riprap analysis
- Daily force account report of lab costs
- Gradation sheets for riprap analysis
- Location map
- Typical client specifications for material requirements

Please note that the extent and volume of the deposit is undetermined. However, the rock tested meets the requirements for Class A and Class AI riprap.

I trust this information satisfactorily meets your needs for full acceptance of expenditures related to our Assessment Report. Should you require additional information, please do not hesitate to contact me at 403-678-2291.

Respectfully yours,



Pat Dwyer  
Pat Dwyer Construction Inc.

**DUNN CREEK RESOURCES LIMITED**

P.O. BOX 38  
LUNDBRECK, ALBERTA  
T0K 1H0  
PHONE (403) 628-3710 FAX (403) 628-2191

Lab Results for rip-rap acceptability:

Rock samples taken July 2000 for Pat Dwyer Construction

ABRASION RESISTANCE: retained 79% weight at 500 revolutions

SOUNDNESS: 91% weight retained at 5 cycles magnesium sulfate solution

SPECIFIC GRAVITY: actual 2.59 and 2.61 on apparent scale

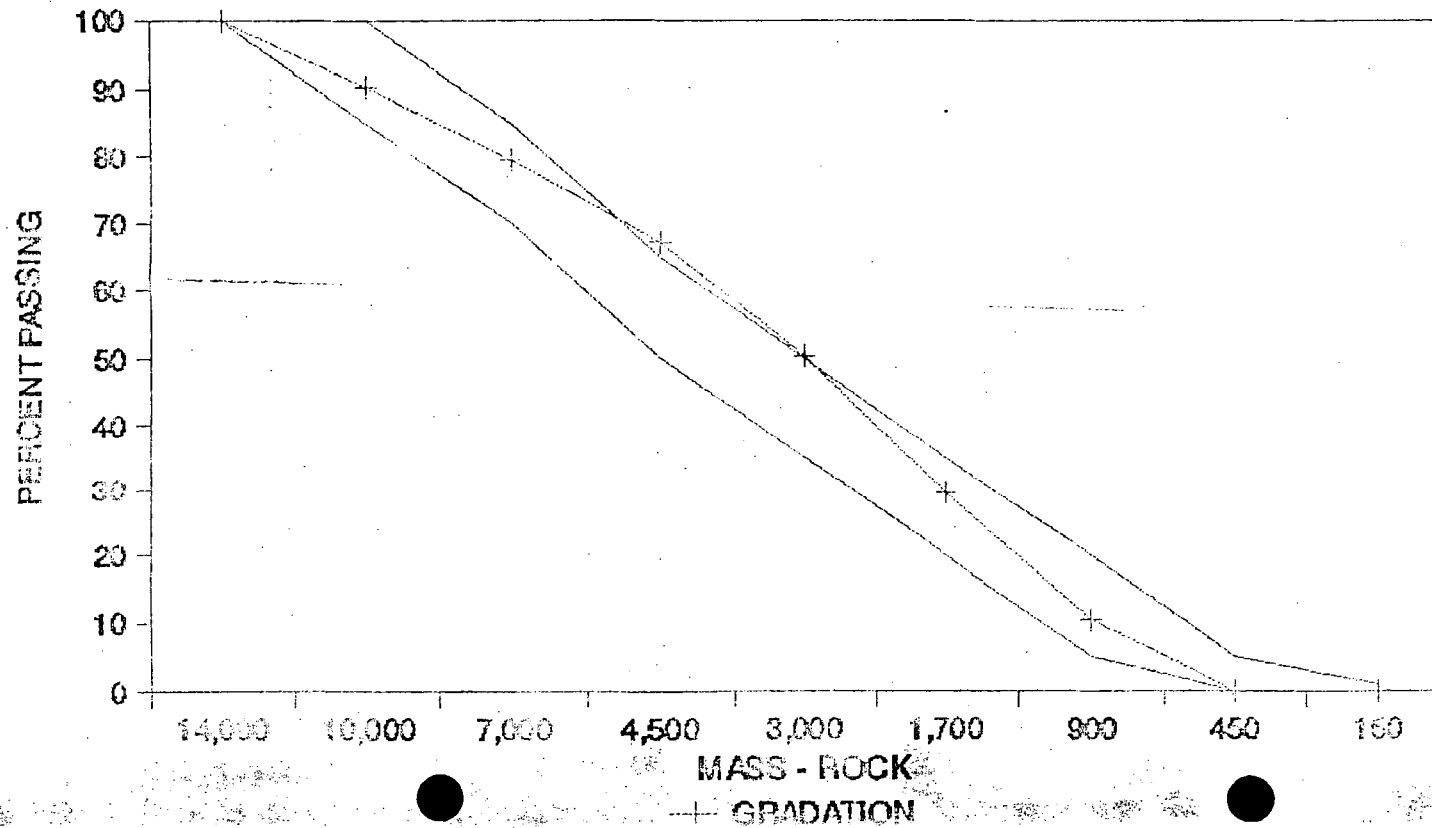
ABSORPTION OF MOISTURE: 1.8%

FREEZE-THAW: 9% partial split at 20 cycles

GRADATION SHEETS by field measurements attached

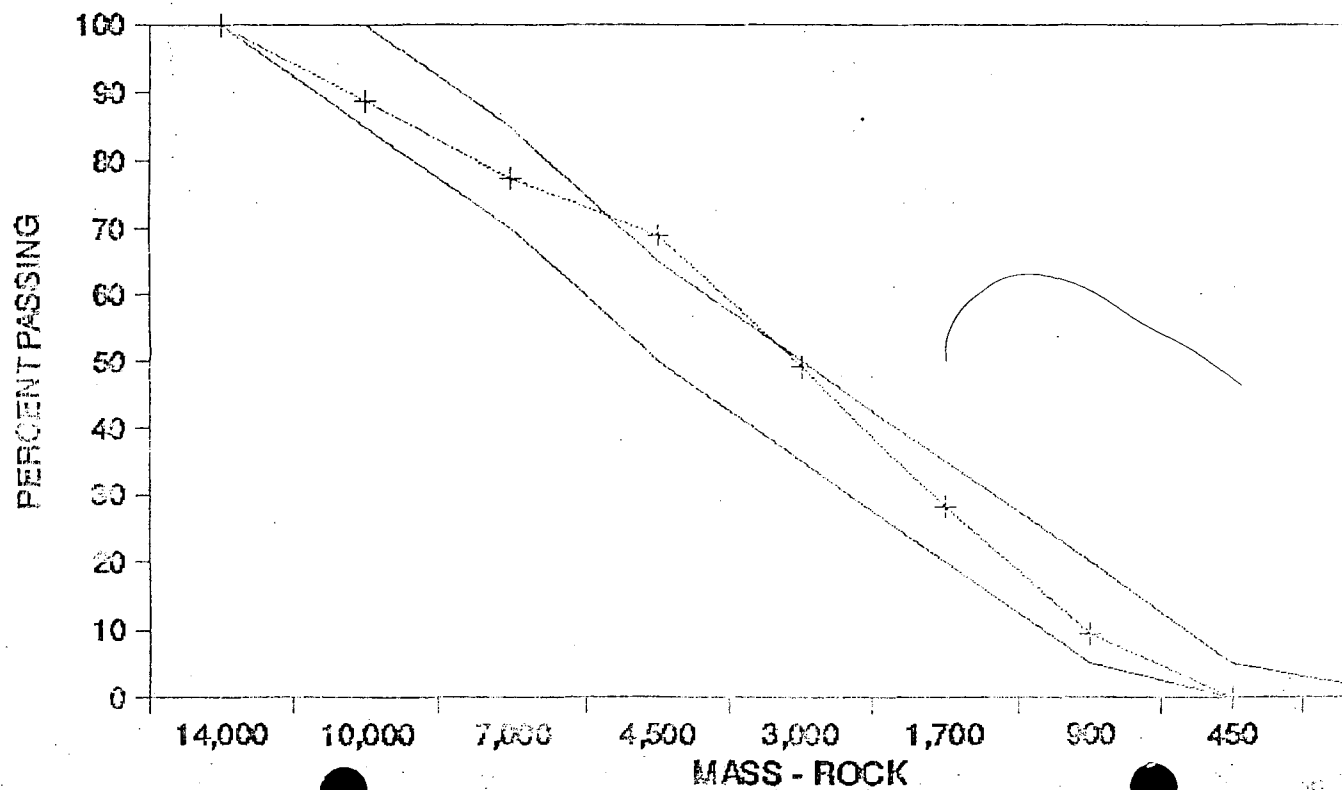
# PAT DWYER CONSTRUCTION

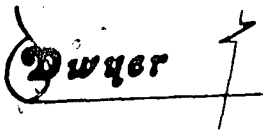
CLASS A1 RIP RAP



# PAT DWYER CONSTRUCTION

CLASS A1 RIP RAP





# DAILY FORCE ACCOUNT REPORT

REF. NO. *Sup rap permits*  
 DATE *July 2000*

CONTRACT NO. *internal* NAME *Hor Pat Dwyer Inc*  
 WORK DESCRIPTION *travel to site with Tool & Dwyer Creek Personnel to qualify rock for use*

LABOUR	OCCUPATION	HOURS WORKED	OVERTIME HOURS	TOTAL PAY HOURS	HOURLY RATE	DIRECT LABOUR	TRAVEL ALLOWANCE
	<i>foreman</i>	<i>9</i>			<i>45.00</i>	<i>405.00</i>	
<i>test rock for volume &amp; weight to grade spec by measuring to weight ratios on site to credit auto taken</i>							
ADD PAYROLL BURDENS @					%		
ADD OVERHEAD @					%		
ADD PROFIT @					%		

TOTAL LABOUR \$ ▶

EQUIPMENT	G.W. No.	HOURS WORKED	TOTAL RENTAL RATE	AMOUNT	EQUIPMENT RENTED	HOURS WORKED	RENTAL RATE Incl. Taxes	AMOUNT	
<i>4x4 Pickup</i>		<i>10</i>	<i>14.00</i>		<i>Quail</i>	<i>Day</i>	<i>150.00</i>	<i>150.00</i>	
ADD OVERHEAD @				%	ADD OVERHEAD @				%
ADD PROFIT @				%	ADD PROFIT @				%

2-4.2.03.2 Material Requirements

Riprap materials shall be clean, hard, dense, durable rock particles. Individual particles of riprap material shall contain no cracks, seams, weathered zones or inclusions of sand, silt, clay or rock fines. Each rock particle shall be approximately equidimensional in shape. No rock particle shall have its largest dimension greater than three times the smallest dimension measured through the centre of mass.

Each class of riprap material shall be well graded within the specified limits after placement in the stockpiles or on the Dyke. The Engineer will reject riprap materials not meeting these Specifications at the quarry, during transportation to the Project Site, in the stockpile or on the Dyke.

2-4.2.03.3 Class A Riprap

After placement on the Dyke, or in the stockpile (for the riprap supplied but not required to be placed on the Dyke) every 25 square metre area of the Class A Riprap material shall contain a well graded mass of rock particles sized within the following limits:

<u>Mass of specified individual rock particles (kg)</u>	<u>Percentage of the total mass to contain rock particles each with a mass greater than the specified individual rock particle mass</u>
14,000	0
7,000	0- 30
4,500	20- 50
3,000	35- 65
1,700	50- 80
900	65- 95
450	80-100
150	95-100
10	99-100

2-4.2.03.4 Class A1 Riprap

After placement in the stockpile every 50 cubic metre volume of the Class A1 Riprap material shall contain a well graded mass of rock particles sized within the following limits:

Mass of specified individual rock particles (kg)

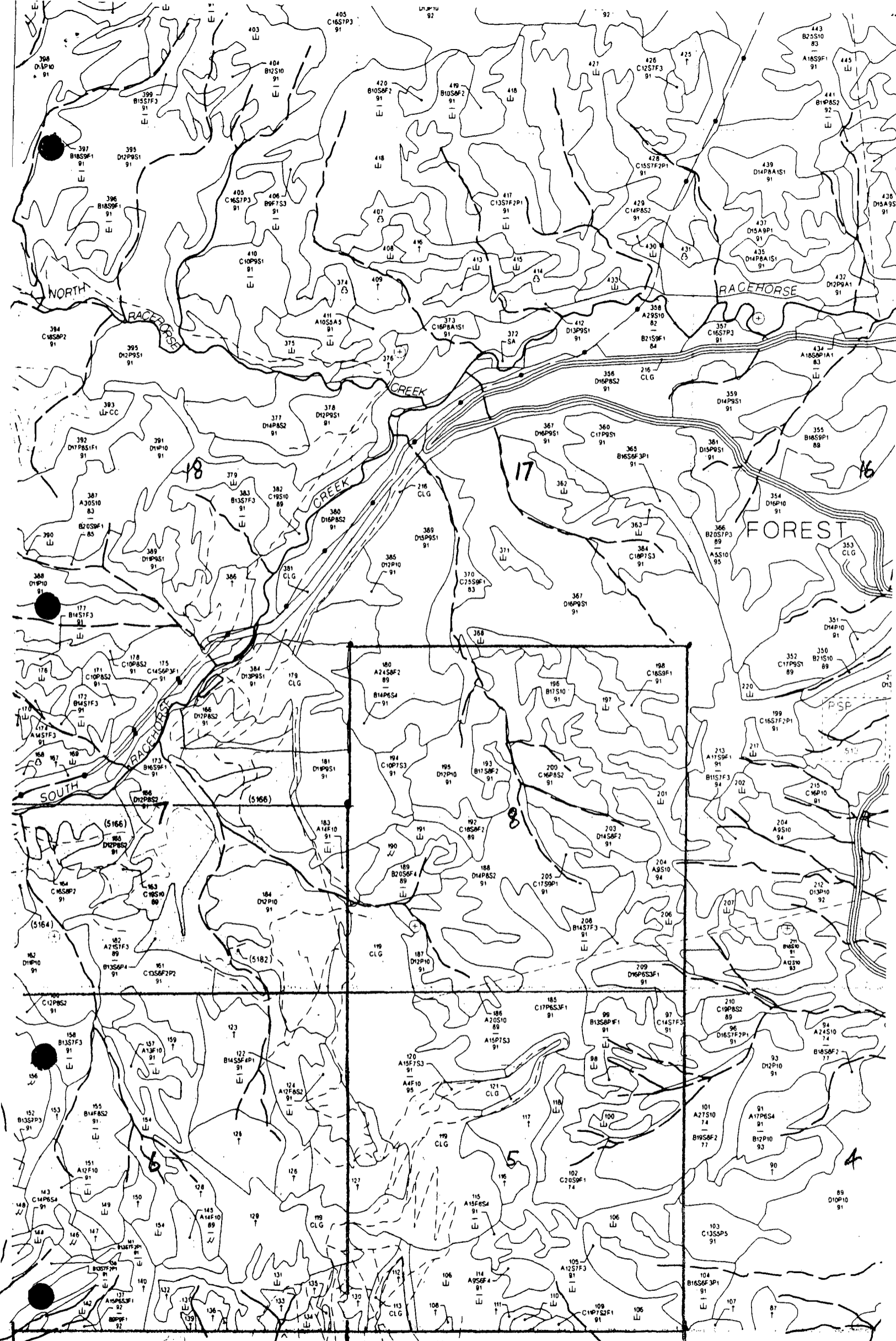
Percentage of the total mass to contain rock particles each with a mass greater than the specified individual rock particle mass

14,000	0
10,000	0- 15
7,000	15- 30
4,500	35- 50
3,000	50- 65
1,700	65- 80
900	80- 95
450	95-100
150	99-100

#### 2-4.2.03.5 Rock Properties

Both Class A and Class A1 Riprap material shall meet the following minimum requirements for soundness and durability:

<u>Test</u>	<u>Method of Test</u>	<u>Minimum Requirements</u>
Abrasion Resistance	Los Angeles Machine, ASTM Designation C535	Less than 40 percent loss of weight after 500 revolutions.
Soundness	Magnesium Sulfate Solution, ASTM Designation C88 (Coarse Aggregate Gradation)	Less than 25 percent loss of weight after 5 cycles.
Specific Gravity	ASTM Designation C127 (sample graded between 50 mm and 90 mm size)	2.60 minimum.
Absorption	ASTM Designation C127 (sample graded between 50 mm and 90 mm size)	2.0 percent maximum.
Freeze-Thaw	Full Immersion, AASHTO T103 (Ledge Rock Gradation)	Less than 15 percent of particles split after 20 cycles.



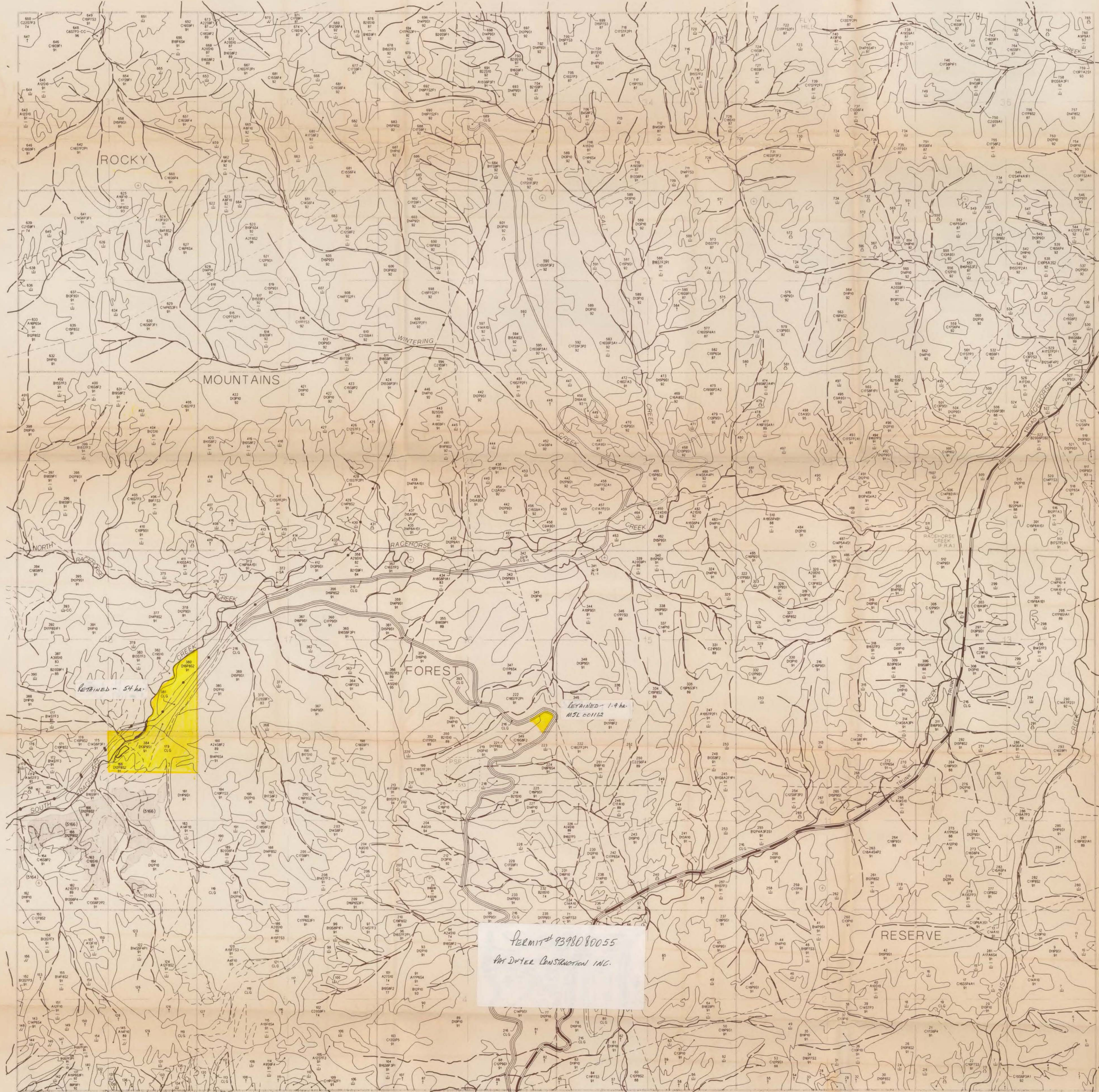
- Township 10, Range 4, W of S - Permit # 9398080055  
 - highlighted = area of riprap sample collection, July 2000

TP. 010 R. 04 N. 5 MER.  
 STAND AREA  
 (Hq)

STAND AREA ATTRIBUTE  
 111 11 MRP7A21 A1 91-U

TP. 010 R. 04 N. 5 MER.  
 STAND AREA ATTRIBUTE  
 221 8.5 MD17PLBSE2 91-W





**MAP LABEL LEGEND**  
(LABELS CONVERTED FROM AVI INTERPRETATION CALL)

**PRODUCTIVE FOREST LAND**

**SAMPLE FOREST STAND DESCRIPTIONS**

**BASIC LABEL - SINGLE STOREY**  
Crown Closure Class (0-100) Series Composition (N% of Species or Stand % of Incremental) Stand Modifier (0-99)  
C1902 92 0-100 100% BALSAM FIR

**MAXIMUM LABEL - SINGLE STOREY**  
% of All Acres Map Use To 10 Rows  
Stand Modifier (0-99)  
C1902-92 0-100 100% BALSAM FIR

**BASIC - TWO STOREY**  
C1902 92 0-100 100% BALSAM FIR

**BASIC - HORIZONTAL STRUCTURE**  
C1902-92 0-100 100% BALSAM FIR

**CROWN CLOSURE**  
CROWN CLOSURE (%) CODE  
0-30 A  
31-50 B  
51-70 C  
71-100 D

**HEIGHT**  
STAND HEIGHT IS THE AVERAGE OF THE DOMINANT AND SUBDOMINANT TREES FOR ALL SPECIES AND IS ESTIMATED TO THE NEAREST METRE ADJACENT STANDS SEPARATED ON THE BASIS OF HEIGHT ALONE MUST HAVE A HEIGHT DIFFERENCE EQUAL TO OR GREATER THAN 3m.  
CODE  
S - 30  
A - 31-50  
B - 51-70  
C - 71-100  
D - OR GREATER THAN 3m

**SPECIES COMPOSITION**  
TREE SPECIES CODE  
WHITE/ENGELMANN SPRUCE S  
BLACK SPRUCE M  
LODGEPOLLE/JACK-WHITE BARK/AMBER PINE D  
DOUGLASS FIR F  
ALPINE/BRALM FIR P  
TAMARACK/PINE LARCH/WESTERN LARCH L  
TREMBLING ASPEN/VORLIZEN/SPECKED AND/RED-FLEATED U  
BALSAM SCLAR B  
WHITE BARK PINE W  
PAPER WHITE BIRCH w  
LAMB FIR S  
ALPINE FIR B

**STAND MODIFIERS**  
MODIFIER CODE  
CLEARCUT C  
PARTIAL CUT PC  
BURN BU  
PARTIAL BURN PB

**STAND STRUCTURE**  
SEE INTERPRETATION LEGEND FOR DEFINITIONS  
CODE  
C- STRUCTURE C  
COMPLEX COMPLEX C  
HORIZONTAL HORIZONTAL C  
HORIZONTAL IN CLAY HORIZONTAL IN CLAY C  
HORIZONTAL IN CLAY HORIZONTAL IN CLAY C

**NON-PRODUCTIVE FOREST LAND**  
CLASSIFICATION SYMBOL  
GRASSLAND G  
OPEN WATERS, BOD. MARSH A  
TREM. MUSKIE I

**NON-VEGETATED LAND**  
CLASSIFICATION CODE CLASSIFICATION CODE  
CLEARED LAND CLG ROKK BARREN RB  
CULTIVATED LAND CWT SAND SAND SA  
OUTCROP OUCRAE OVERLAKE FL  
FLOODED FLD

**PLANIMETRIC LEGEND**

BOUNDARY LINE - SURVEYED  
SECTION LINE - UNSURVEYED  
QUARTER SECTION LINE AND SECTION NUMBER  
PRIMARY SECONDARY ROAD DESIGNATION  
PAVED ROAD  
UNPAVED ROAD - 2 LANES  
UNPAVED ROAD - 1 LANE  
UNAPPROVED ROAD  
TRUCK TRAIL  
OUTLINE/TRAIL  
BRIDGE  
FERRY  
ROAD CROSSING  
MAJOR PIPELINE  
MAJOR TRANSMISSION LINE  
MAJOR TOWER/MAST  
RAILWAY - SINGLE TRACK WITH RAILWAY POINT  
RAILWAY - DOUBLE/MULTIPLE TRACK  
AIRPORT/ARRIVAL/DEPART  
HELIPORT  
MAJOR RIVER  
PERMANENT RIVER/STREAM  
INTERMITTENT RIVER/STREAM  
DEFINITE RIVER/STREAM  
DISAPPEARING STREAM  
DIRECTION OF FLOW  
FALLS  
PERMANENT LAKE/CREEK  
INTERMITTENT LAKE/CREEK  
MAJOR CANAL  
IRRIGATION CANAL/DITCH  
AGRICULTURE  
DUGOUT/LAGOON/RESERVOIR  
MAJOR DAM/WINDY DAM  
DRAIWAY  
ICEFIELD/GLACIER  
SKI AREA  
PROVINCIAL FORESTRY RECREATION AREA AT CARPINCOUR  
FORESTRY HEADQUARTERS  
FORESTRY RANGER STATION/CABIN  
LOOKOUT TOWER  
PERMANENT SAMPLE PLOT  
PROVINCIAL BOUNDARY  
CITY BOUNDARY  
TOWN/VILLAGE/SUMMER VILLAGE BOUNDARY  
MARKET/POST OFFICE/LOCALITY  
NATIONAL PARK/PROVINCIAL PARK/WILDERNESS AREA BOUNDARY  
RECREATION AREA BOUNDARY  
MILITARY BASE/RAZOR BOUNDARY  
INDIAN RESERVATION BOUNDARY  
METIS SETTLEMENT BOUNDARY  
SETTLEMENT BOUNDARY  
GRASSLAND RESERVE/AGRICULTURAL AREA BOUNDARY  
ECOLOGICAL RESERVE BOUNDARY  
GREEN-WHITE AREA BOUNDARY  
ROCKY MOUNTAIN FOREST RESERVE BOUNDARY  
FOREST/PERMANENT FOREST OF A FOREST  
FOREST MANAGEMENT UNIT BOUNDARY  
PATENT LAND BOUNDARY  
PHOTO CENTER  
INDEX CONTOUR  
INDEX DEPRESSION CONTOUR  
INTERMEDIATE DEPRESSION CONTOUR  
SPOT HEIGHT  
VEGETATION UPDATE OUTLOOKS

**NOTE**  
PLANIMETRIC FEATURES TAKEN FROM 1:20,000 PRODUCTION DIGITAL DATA MAP FILES ARE DISPLAYED AS SOLID BLACK LINES AND ARE POSITIONALLY ACCURATE TO 1/3 METRE.

PLANIMETRIC FEATURES TAKEN FROM 1:50,000 RESOURCE ACCESS FILES ARE DISPLAYED AS A SCREENED PATTERN AND ARE POSITIONALLY ACCURATE TO 1/3 METRE.

Permit # 938080055  
PAC DUTEL CONSTRUCTION INC.

TP. 010 R. 04 W.5 MER. STAND AREA	ATTRIBUTE	TP. 010 R. 04 W.5 MER. STAND AREA	ATTRIBUTE	TP. 010 R. 04 W.5 MER. STAND AREA	ATTRIBUTE	TP. 010 R. 04 W.5 MER. STAND AREA	ATTRIBUTE
111	MERRIFIELD 91-U	111	MERRIFIELD 91-U	111	MERRIFIELD 91-U	111	MERRIFIELD 91-U
112	MERRIFIELD 91-U	112	MERRIFIELD 91-U	112	MERRIFIELD 91-U	112	MERRIFIELD 91-U
113	MERRIFIELD 91-U	113	MERRIFIELD 91-U	113	MERRIFIELD 91-U	113	MERRIFIELD 91-U
114	MERRIFIELD 91-U	114	MERRIFIELD 91-U	114	MERRIFIELD 91-U	114	MERRIFIELD 91-U
115	MERRIFIELD 91-U	115	MERRIFIELD 91-U	115	MERRIFIELD 91-U	115	MERRIFIELD 91-U
116	MERRIFIELD 91-U	116	MERRIFIELD 91-U	116	MERRIFIELD 91-U	116	MERRIFIELD 91-U
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150	MERRIFIELD 91-U	150	MERRIFIELD 91-U	150	MERRIFIELD 91-U	150	MERRIFIELD 91-U

Total Hectares	9477.66
Total Stands	765
Total Hectares	9477.66
Total Stands	765