

# GM 04618-B

15 DIAMOND DRILLING LOGS OF HOLES 23 TO 31A, 31B TO 36

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Énergie et Ressources  
naturelles

Québec 

LAC DES DEUX MONTAGNES Seig

L'Annonciation Parish.

COLUMBIUM MINING PRODUCTS LTD.

D.D.H.# 22 to 36.

1956.

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QUEBEC DEPARTMENT OF MINES

NOV 15 1956

MINERAL DEPOSITS BRANCH

No G M- 4618-B

COULEE-HEADWAY OKA PROPERTY

Hole 22      Direction: 240°      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                               | Sample No: | From | To  | Width | Assays      |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------|
|      |     |                                                                                                                                                                                                                                                                                                   |            |      |     |       | 0b.0<br>%25 |
| 0    | 25  | 0-10 Casing.<br>10-25 About 6' of narrow lenses of ijolite at: 10-13.8, 17.9-18.8, 22.3-23.8. with veinlets of calcite rimmed with biotite. Pyro. mineralization in the veinlets. The rest is lim. with biotite and minor pyrite. Pyro. visible throughout the lim.<br>RA: Slightly above normal. | 0-1        | 10   | 25  | 15    | 0.32        |
| 25   | 50  | Mostly ijolite brecciated with calcite and biotite veinlets. Fine yellowish brown pyro. crystals at 48.5.<br>Good pyro. at 46.5<br>RA: Just above normal.                                                                                                                                         | 0-2        | 25   | 50  | 25    | 0.25        |
| 50   | 75  | Same as above but somewhat less brecciated. At 68.5 Loaded with strongly radioactive straw colored (beta-fite) crystals.<br>RA: 1½x N                                                                                                                                                             | 0-3        | 50   | 75  | 25    | 0.27        |
| 75   | 100 | 75-85 Same as above.<br>85-100 Massive lim. with minor biotite. At 78.5 rich in radioactive very light brown crystals.<br>95-100 Good light brown pyro. mineralization with very rich section at 96.<br>RA: N                                                                                     | 0-4        | 75   | 100 | 25    | 0.48        |
| 100  | 125 | Mostly brecciated ijolite (90%) Very rich in light brown very radioactive betafite? mineralization at 109-109.5. Visible pyro. in calcite veinlets.<br>RA: 1½x N                                                                                                                                  | 0-5        | 100  | 125 | 25    | 0.43        |
| 125  | 150 | 125-133 Ijolite slightly brecciated with straw colored columbium? crystals.<br>133-150 Massive med.-grained lim. with minor biotite and some soda pyroxene. Good pyro. specially at 134.3<br>RA: 1½x N                                                                                            | 0-6        | 125  | 150 | 25    | 0.61        |
| 150  | 175 | 150-154.3 Massive lim. with small light green crystals and minor                                                                                                                                                                                                                                  | 0-7        | 150  | 175 | 25    | 0.74        |

## COULEE-HEADWAY OKA PROPERTY

Hole 22 Direction: 240°  
Dip: 60°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                               | Sample No: | From | To  | Width | Assays                              |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                   |            |      |     |       | Ob <sub>2</sub> O <sub>5</sub><br>% |
|      |     | biotite with visible pyro.<br>154.3-175 Brecciated ijolite with<br>biotite replacement sections and<br>few calcite veinlets. Heavy pyro.<br>min. from 169-171 associated with<br>green pyroxene?<br>RA: 1½x N                                                                                                                                                     |            |      |     |       |                                     |
| 175  | 200 | Ijolite with numerous veinlets of<br>calcite and a fair amount of bio-<br>tite replacement rock. Very little<br>visible pyro.<br>RA: 1½x N                                                                                                                                                                                                                        | 0-8        | 175  | 200 | 25    | 0.24                                |
| 200  | 225 | 200-203 Brecciated ijolite and pyro.<br>203-212 Lim. with biotite & pyrite<br>and rich pyro. from 206-212.<br>RA: 1½x N                                                                                                                                                                                                                                           | 0-9        | 200  | 212 | 12    | 0.75                                |
|      |     | 212-225 Barren pitted crystalline<br>lim. with minor pyrite.<br>2' of ground core.<br>RA: 1½x N                                                                                                                                                                                                                                                                   | 0-10       | 212  | 225 | 13    | 0.024                               |
| 225  | 250 | Fairly massive lim. with minor<br>pyrite & some pyro.<br>237-238.7 Biotite magnetite calcite<br>replacement rock with heavy pyro.<br>238.7-242 Lim. with brecciated<br>ijolite good pyro. and soda pyro-<br>xene.<br>242-243.7 Ijolite with biotite and<br>pyrite.<br>243.7-250 Massive lim. with biotite<br>and some pyro. 246.3-248.7 Ground core.<br>RA: 1½x N | 0-11       | 225  | 250 | 25    | 0.61                                |
| 250  | 275 | Massive lim. with minor biotite<br>magnetite and soda pyroxene. Very<br>good mineralization throughout spe-<br>cially from 258-260 associated with<br>green crystals of soda pyroxene?<br>RA: N                                                                                                                                                                   | 0-12       | 250  | 275 | 25    | 0.87                                |
| 275  | 300 | Massive lim.<br>Ijolite at: 278.5-279.8, 280.3-<br>280.6, 288, 289, 291.5.<br>Pyro. throughout especially at<br>281 and 292 at the latter asso-<br>ciated with magnetite.<br>RA: 2x N                                                                                                                                                                             | 0-13       | 275  | 300 | 25    | 0.48                                |



COULEE-HEADWAY OKA PROPERTY

Hole 22

Direction: 240°  
Dip: 60°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 300  | 325 | Massive lim. with minor biotite and ferromagnesian except from 311.5-312.2 which is higher in magnetite, soda pyroxene and pyro. Good mineralization throughout.<br>RA: 2½x N                                                                                                                                                                    | 0-14       | 300  | 325 | 25    | 0.37                                          |
| 325  | 350 | Same as above with less ferr. and pyro. Fair pyro. at 334; 341; and 349.5; at the latter place associated with magnetite. Ground core from 325 to 326.2.<br>RA: 3x N                                                                                                                                                                             | 0-15       | 325  | 350 | 25    | 0.26                                          |
| 350  | 375 | Same as above with a little more ferr. Narrow (4") ijolite inclusions at 366-367. Rich, narrow (3") seams of highly radioactive betafite associated with magnetite at 351; 362.5; Minor pyro. throughout.<br>RA: 3x N                                                                                                                            | 0-16       | 350  | 375 | 25    | 0.20                                          |
| 375  | 400 | 16' of ijolite: 375-375.4; 376.5-377.3; 378.5-383.5; 385.1-394.7. The rest is massive lim. with some pyro.<br>RA: 1½x N                                                                                                                                                                                                                          | 0-17       | 375  | 400 | 25    | 0.20                                          |
| 400  | 425 | 400-415 Massive lim. with strongly radioactive brown betafite? crystals associated with soda pyroxene at: 406.5-407 and 408.<br>415-418.3 Br. ijolite with some pyro.<br>418.3-422.8 Lim. with narrow (3") ijolite inclusion at 420.<br>422.8-424.6 Barren med.-gr. ijolite.<br>424.6-425; Lim.<br>Visible pyro. throughout the lim.<br>RA: 2x N | 0-18       | 400  | 425 | 25    | 0.26                                          |
| 425  | 450 | Massive lim. in general with little biotite and ferr. Good pyro. throughout but specially when associated with magnetite and olive green pyroxene such as at 426.8; 442 and 449.5. Ground core: 448-449.2.<br>RA: 1½x N                                                                                                                          | 0-19       | 425  | 450 | 25    | 0.44                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 22

Direction: 240°  
Dip: 60°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                  | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 450  | 475 | Mostly lim. slightly lineated at 38° to core. Fair pyro. at 447-449.5.<br>Ijolite slightly brecciated: 453-455.7, 459.4-461.2, 462.9-464.4, 467.4-468.7, mineralized at 461.1.<br>RA: 1½x N                                                                                                          | 0-20       | 450  | 475 | 25    | 0.27                                          |
| 475  | 500 | Mostly lim. more mineralized.<br>Good brown (pyro?) strongly radioactive at 478.5, 483.5, 492, 498.5, mostly associated with the soda pyroxene and biotite.<br>Ground core 479.8-480.8, 481.3-481.9.<br>Brecciated ijolite: 483.8-487.3, 488.6-493.5.<br>Good pyro. at 484.8 and 490.2.<br>RA: 1½x N | 0-21       | 475  | 500 | 25    | 0.46                                          |
| 500  | 525 | Massive lim. with fair amount of ferr. biotite and pyrite.<br>Unusual high radioactivity.<br>Good pyro. at 511.8, 513, 520.8.<br>This box should be checked again in account of high radioactivity and low assay.<br>RA: 3x N                                                                        | 0-22       | 500  | 525 | 25    | 0.21                                          |
| 525  | 550 | Massive coarser-gr. lim. with minor biotite and pyrite. No visible pyro.<br>Ijolite: 533.8-536.8.<br>RA: 1½x N                                                                                                                                                                                       | 0-23       | 525  | 550 | 25    | 0.097                                         |
| 550  | 575 | Same lim. as above with a narrow inclusion of ijolite from 567.5-568.2. No visible pyro.<br>RA: 2x N                                                                                                                                                                                                 | 0-24       | 550  | 575 | 25    | 0.088                                         |
| 575  | 600 | Same as above. Pyro. at 578, 582. Fair at 597.2, 594.3, 578, 592.4, 595.7. Check this box. It should run higher in columbium?<br>RA: N                                                                                                                                                               | 0-25       | 575  | 600 | 25    | 0.089                                         |
| 600  | 625 | Same as above with good pyro. at 603.5. Some at 601.6.<br>Coarse-gr. pyro. in pyroxene at 621.6. Good coarse pyro. at: 613.2-613.7, 622.6-623.2.<br>RA: 1½x N                                                                                                                                        | 0-26       | 600  | 625 | 25    | 0.21                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 22

Direction: 240°

Location: 195

Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                    | Sample No: | From | To  | Width | Assays<br>Ob <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 625  | 650 | Massive lim. slightly more crystalline and coarser-gr. with less ferr. No visible pyro.<br>RA: 1½x N                                                                                                                                                                                                                   | 0-27       | 625  | 650 | 25    | 0.02                                          |
| 650  | 675 | Same as above. No visible pyro. Minor magnetite.<br>RA: 1½x N                                                                                                                                                                                                                                                          | 0-28       | 650  | 675 | 25    | 0.02                                          |
| 675  | 700 | Massive yellowish green crystalline lim. with minor magnetite, biotite, apatite, pyroxene and napheline. RA<br>RA: 2x N                                                                                                                                                                                                | 0-29       | 675  | 700 | 25    | 0.01                                          |
| 700  | 725 | Massive lim. with fair amount of biotite and magnetite in coarse crystals.<br>721-722: Ijolite.<br>722: Much pyroxene, in highly radioactive section (6" wide) rich in pyro.<br>700-703: Highly radioactive with small reddish grains and also reddish tinge in magnetite crystals.<br>RA: 2x N                        | 0-30       | 700  | 725 | 25    | 0.085                                         |
| 725  | 750 | Fairly massive lim. showing faint lineation and fracture zone at 40° to core. Fair amount of green needle shape crystals (pyroxene). Minor biotite and magnetite. Fair pyro. in good size crystals specially at 737.5.<br>732-734: Brecciated greenish zone with abundant pyro. along seams in magnetite.<br>RA: 1½x N | 0-31       | 725  | 750 | 25    | 0.26                                          |
| 750  | 775 | Fairly massive lim. with normal amount of ferr., magnetite and biotite. Minor pyrite. Faint lineation sometimes marked by pure recrystallized lim. No visible pyro., but reddish tints in magnetite crystals.<br>755-757.5: Ground core.<br>RA: 2½x N                                                                  | 0-32       | 750  | 775 | 25    | 0.16                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 22

Direction: 240° Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                   | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
| 775  | 800 | Same as above with some better lineation and good pyro. mineralization specially from 785-800. 778-780: Fine-gr. lamprophyre. 780.5: 6" of ijolite. Pyro. is associated with the soda pyroxene in the more lineated section. RA: 2x N | 0-33       | 775  | 800  | 25    | 0.24                                          |
| 800  | 825 | Same as above with bigger crystals of biotite and magnetite. 811-812.5: Highly radioactive, magnetic and mineralized. Good pyro. mineralization throughout. RA: 3x N                                                                  | 0-34       | 800  | 825  | 25    | 0.16                                          |
| 825  | 850 | About same as above with more altered lim. from 837 to 842 and less marked lineation. More needle shape green crystals of pyroxene with fair size pyro. crystals specially at 837-838. Good pyro. throughout. RA: 2½x N               | 0-35       | 825  | 850  | 25    | 0.14                                          |
| 850  | 875 | Massive lim. with more ferr. than usual but in medium size with fair magnetite and minor pyrite. Good pyro. throughout. RA: 3x N                                                                                                      | 0-36       | 850  | 875- | 25    | 0.21                                          |
| 875  | 900 | Same as above with also good pyro. mineralization throughout. RA: 2½x N                                                                                                                                                               | 0-38       | 875  | 900  | 25    | 0.44                                          |
| 900  | 925 | 900-905 Massive lim. with normal ferr. and opaques in small grains. Numerous light brown shapeless columbium grains specially around 901 associated with good soda pyroxene and biotite. RA: 1½x N                                    | 0-39       | 900  | 905  | 5     | 0.87                                          |
|      |     | 905-931 Massive yellowish lim. slightly altered from 912 to 917 with three narrow dykes at: 921-922.5 and 923(4"-62). The ferr. and opaques are in bigger grains. Visible pyro. specially in the last 20'. RA: 2x N                   | 0-40       | 905  | 931  | 26    | 0.21                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 22

Direction: 240°  
Dip: 60°

Location: Lot 195

| From | To   | Log                                                                                                                                                                                                                                                         | Sample No: | From   | To     | width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|-----------------------------------------------|
| 925  | 950  | 931-933 Magnetite, biotite, soda pyroxene, calcite replacement rock. Also fair pyrite. Numerous pale brown pyro. grains.<br>RA: 2x N                                                                                                                        | 0-41       | 931    | 933    | 2     | 0.50                                          |
|      |      | 933-950 Green med.-gr. ijolite in places brecciated with minor apatite, nepheline, pyrite and much red silicate mineral from 938 to 942.<br>RA: 1½x N                                                                                                       | 0-42       | 933    | 950    | 17    | 0.18                                          |
| 950  | 975  | Same as above.<br>RA: N                                                                                                                                                                                                                                     | 0-43       | 950    | 975    | 25    | 0.038                                         |
| 975  | 1000 | Same as above with much finer-gr. sections at 983-984.3; 987.5-994.3.<br>RA: 1½x N                                                                                                                                                                          | 0-44       | 975    | 998    | 23    | 0.102                                         |
| 1000 | 1025 | 998-1007.5: Mostly altered lim. with nepheline, ijolite, biotite and good pyrite. Strongly radioactive (4x N). Visible pyro. at 999.2 and altered brown at 1000.3.<br>RA: 4x N                                                                              | 0-45       | 998    | 1007.5 | 9.5   | 0.46                                          |
|      |      | 1007.5-1025: Mostly fine-gr. massive ijolite with some brecciated sections. Good red nepheline.<br>RA: 1½x N                                                                                                                                                | 0-46       | 1007.5 | 1025   | 17.5  | 0.081                                         |
| 1025 | 1050 | Mostly massive fine-gr. ijolite with some brecciated inclusions (1035-1040). Red nepheline present. No visible pyro.<br>RA: 1½x N                                                                                                                           |            |        |        |       |                                               |
| 1050 | 1075 | 1050-1052: Fine-gr. green ijolite.<br>1052-1058.4: Brecciated ijolite.<br>1058.4-1061.6: Fine-gr. ijolite.<br>1061.6-1063.3: Med.-gr. ijolite.<br>1063.3-1070.3: Fine-gr. ijolite.<br>1070.3-1075: Massive lim. with minor magnetite and ferr.<br>RA: 1½x N |            |        |        |       |                                               |
| 1075 | 1100 | Massive, medium to coarse-gr. lim. with normal amount of accessory minerals except from 1081 to 1084 which contains much pyroxene.                                                                                                                          | 0-47       | 1075   | 1100   | 25    | 0.019                                         |

COULEE & HEADWAY OKA PROPERTY

Hole 22 Direction: 240° Location: Lot 195  
Dip: 60°

| From | To   | Log                                                                                                                                                                                               | Sample No: | From | To     | Width | Assays                       |
|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|--------|-------|------------------------------|
|      |      |                                                                                                                                                                                                   |            |      |        |       | $\text{Cb}_2\text{O}_5$<br>% |
|      |      | No visible pyro.<br>RA: 1½x N                                                                                                                                                                     |            |      |        |       |                              |
| 1100 | 1125 | Massive lim. in general with minor accessory minerals except from 1100 to 1103.5 which contains much pyroxene. Fair pyro. at 1108.9 and some at 1115.2; 1119.7; 1109.3.<br>RA: 1½x N              | 0-124      | 1100 | 1125   | 25    | 0.03                         |
| 1125 | 1150 | Mostly massive lim. with minor accessory minerals except from 1147.5-1150 which has much green pyroxene. Fair pyro. at 1129.5; 1135.9; 1136.6, associated with foliated lim.<br>RA: 1½x N         | 0-125      | 1125 | 1150   | 25    | 0.18                         |
| 1150 | 1175 | 1150-1154: Fine-gr. massive ijolite. 1154-1166.9: Medium to coarse lim. with minor biotite, magnetite. Strongly radioactive at 1165.5 with minor pyro. Probably some thorium present.<br>RA: 2x N | 0-48       | 1150 | 1166.9 | 16.9  | 0.08                         |
|      |      | 1166.9: END OF HOLE.                                                                                                                                                                              |            |      |        |       |                              |



COULEE & HEADWAY OKA PROPERTY

Hole 23

Direction: 240° (appr.)

Location: Ld: 195

Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                      | Sample No: | From | To  | Width | Assays                             |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                          |            |      |     |       | $\text{Gd}_{205}$<br>$\frac{2}{5}$ |
| 0    | 25  | 0-17: Casing.<br>17-20.3: Lim. with ferr. light green crystals. Considerable light brown pyro. throughout.<br>20.3-25: Ijolite brecciated with seams of biotite-calcite. Many brown crystals?<br>At 23-23.3: Biotite replacement rock.<br>RA: 1½x N                                                                                                                                                                      | 0-61       | 17   | 25  | 8     | 0.59                               |
| 25   | 50  | Typical massive lim. Two small blobs of biotite replacement rock. Many light brown pyro. crystals. Also many light green crystals.<br>RA: 1½x N                                                                                                                                                                                                                                                                          | 0-62       | 25   | 50  | 25    | 0.43                               |
| 50   | 75  | 50-60.1: Lim. as above. Fine pyro.<br>60.1-65: Light green ijolite much apatite? brecciated with seams of calcite and biotite. Many pale highly radioactive yellow-orange crystals especially at 61-62 and 68.<br>65-68.5: Lim. as above.<br>68.5-75: Ijolite with biotite replacement rock seams and narrow sections of lim.<br>RA: 2x N but 3 to 4x N in places.                                                       | 0-63       | 50   | 75  | 25    | 0.57                               |
| 75   | 100 | 75-90: Ijolite as in end of previous box, brecciated with seams of straight calcite. Also biotite replacement seams. Many orange to yellow crystals at 76.8 as at 61, (betafite?).<br>90-100: Lim. Fairly pure pyro. at 91, 92, 93, associated with light green mineral, biotite and magnetite.<br>94.5 to 96.3: Ijolite.<br>Many pale yellow crystals as at 76.8 -Betafite-<br>RA: 1½x N but high background in places. | 0-64       | 75   | 100 | 25    | 0.46                               |
| 100  | 125 | 100-105.7: Massive lim.<br>105.7-111: Barren, massive fine-gr. ijolite.<br>111-125: Massive lim. with minor                                                                                                                                                                                                                                                                                                              | 0-65       | 100  | 125 | 25    | 0.23                               |

COULEE & HEADWAY OKA PROPERTY

Hole 23      Direction: 240° (appr.)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                   | Sample No: | From | To  | Width | Assays                       |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                       |            |      |     |       | $\text{Ca}_2\text{O}_5$<br>% |
|      |     | biotite and ferr. Numerous cubic and undistinct straw colored crystals. Some could be betafite. (See at 114 and 123).<br>RA: N                                                                                                                                                                                        |            |      |     |       |                              |
| 125  | 150 | 125-130: Massive lim. with pale brown crystals from 128.5 to 130.5.<br>130-150: Mainly massive fine-gr. barren ijolite with a few calcite inclusions.<br>RA: N                                                                                                                                                        | 0-67       | 125  | 150 | 25    | 0.14                         |
| 150  | 175 | Mostly massive fine-gr. dark green ijolite with few narrow inclusions of calcite.<br>172-174.5: Massive lim. with numerous pale brown non radioactive pyro.? crystals.<br>RA: 1½x N                                                                                                                                   | 0-130      | 150  | 175 | 25    | 0.061                        |
| 175  | 200 | Mostly massive fine-gr. ijolite with few brecciated sections.<br>6½' of lim. at 175-177; 184-186.2; 194-195.5, and 6" at 197.5.<br>Medium-gr. light brown non radioactive crystals throughout the lim. Radioactive light brown crystals in ijolite at 185.5.<br>Fair amount of biotite and minor pyrite.<br>RA: 1½x N | 0-131      | 175  | 200 | 25    | 0.26                         |
| 200  | 225 | Same as above: 7' of lim. at 203.6-204.8 and 211-216.7;<br>Visible pyro. at 224 and numerous fine light brown radioactive betafite? grains at 206.5.<br>Fine-gr. light brown crystals from 215.5-216.5.<br>RA: 1½x N                                                                                                  | 0-132      | 200  | 225 | 25    | 0.23                         |
| 225  | 250 | Mostly massive lim. with brecciated ijolite from 243.2 to 248.<br>Pyro. at 237.5 and 243. Also brown resinous garnet looking crystals with magnetite inclusions at 238.8.<br>Light brown non radioactive crystals at 247.2 in the calcite breccia.<br>RA: 1½x N                                                       | 0-133      | 225  | 250 | 25    | 0.37                         |



COULEE & HEADWAY OKA PROPERTY

Hole 23

Direction: 240° (appr.)  
Dip: 60°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 250  | 275 | Massive lim. with minor olive green pyroxene. Few ijolite inclusions and some pyro. Light brown slightly radioactive crystals at 255.5.<br>256.5-268.7: Mostly fine-gr. barren ijolite.<br>268.7-272: Massive barren lim. with minor ijolite and pyrite.<br>272-275: Ijolite showing altered nepheline and pyrite.<br>RA: 1½x N | 0-134      | 250  | 275 | 25    | 0.28                                          |
| 275  | 300 | Mostly massive fine-gr. barren ijolite with a few brecciated sections and 4' of lim. in narrow inclusions. Much more biotite and pyrite than in precedent boxes. Light brown radioactive crystals at 297. Minor pyro. in calcite.<br>RA: 1½x N                                                                                  | 0-135      | 275  | 300 | 25    | 0.16                                          |
| 300  | 325 | Mostly brecciated ijolite with few narrow calcite inclusions.<br>Massive ijolite from 300-305.<br>Straw-colored radioactive crystals at 318 and 322. Minor pyro. Fair biotite and pyrite with red-altered nepheline.<br>RA: 1½x N                                                                                               | 0-68       | 300  | 325 | 25    | 0.19                                          |
| 325  | 350 | 325-326: Massive ijolite.<br>340.7-344.7: Brecciated ijolite.<br>The rest is massive lim. with fair amount of opaques and ferr.<br>Good pyro. mineralization throughout.<br>RA: 1½x N                                                                                                                                           | 0-69       | 325  | 350 | 25    | 0.18                                          |
| 350  | 375 | 350-372: Massive lim. with fair amount of light brown glassy silicate mineral, some apatite.<br>Fair pyro. mineralization specially at 354-355.<br>372-375: Brecciated ijolite with some straw-colored betafite? at 374.<br>RA: 1½x N                                                                                           | 0-70       | 350  | 375 | 25    | 0.33                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 23

Direction: 240° (appr.) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                       | Sample No: | From | To  | Width | Assays                       |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|------------------------------|
|      |     |                                                                                                                                                                                                                                                           |            |      |     |       | $\text{Ca}_2\text{O}$<br>% 5 |
| 375  | 400 | 375-397.6: Slightly brecciated ijolite with fair biotite.<br>397.6-400: Massive lim.<br>No visible pyro. in box.<br>RA: 1½x N                                                                                                                             | 0-71       | 375  | 400 | 25    | 0.16                         |
| 400  | 425 | 400-404: Ijolite.<br>404-407.3: Massive lim.<br>407.3-410.1: Slightly brecciated ijolite.<br>410.1-425: Massive slightly altered lim. with little opaques and ferr. Minor pyro.<br>RA: 1½x N                                                              | 0-72       | 400  | 425 | 25    | 0.35                         |
| 425  | 450 | 425-447.2: Massive, medium-gr. lim. with fair amount of ferr.<br>Visible pyro. specially at 433.5 and 439.9.<br>447.2-450: Ijolite with altered nepheline.<br>RA: 1½x N                                                                                   | 0-76       | 425  | 450 | 25    | 0.25                         |
| 450  | 475 | Mostly ijolite with 4' of lim. at 459.1-459.8; 461-462; 471.2-473.5; .<br>Some straw-colored strongly radioactive mineral at 452.<br>Minor pyro. at 467.5.<br>RA: 1½x N                                                                                   | 0-78       | 450  | 475 | 25    | 0.34                         |
| 475  | 500 | Mostly brecciated ijolite very radioactive with straw-colored crystals from 493.2 to 495 in biotite rich section and also from 498.2 to 498.7.<br>5.4' of lim: 479.6-481.5; 485-486.3; 486.8-488.5; 491.5-492.<br>Some visible pyro. in lim.<br>RA: 1½x N | 0-79       | 475  | 500 | 25    | 0.53                         |
| 500  | 525 | 500-506.5: Massive lim. with pyro. at 502.<br>506.5-525: Ijolite partly brecciated and very well mineralized from 507-508 with brown strongly radioactive crystals of betafite?<br>RA: 1½x N                                                              | 0-80       | 500  | 525 | 25    | 0.46                         |

COULEE & HEADWAY OKA PROPERTY

Hole 23      Direction: 240° (appr.) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                               | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 525  | 550 | Mostly ijolite brecciated from 525 to 528.5.<br>6.4' of lim: 529-532.2; 534-535;<br>540.3-542; 548.1-548.6;<br>Minor pyro. at 530.5 and 548.5 in lim.<br>RA: N                                                                                                                                                                                                                                    | 0-81       | 525  | 550 | 25    | 0.27                                          |
| 550  | 575 | Mostly ijolite slightly brecciated.<br>6' of lim. from 551.5-553; 557-559.2; 573.5-575.<br>Good fine pyro. in fine-gr. lim. at 555.0-555.5 and 558.4-559.1.<br>Minor pyro. at 557.5 and 574.<br>RA: 1½x N                                                                                                                                                                                         | 0-82       | 550  | 575 | 25    | 0.32                                          |
| 575  | 600 | 575-579: Massive lim. with medium-gr. crystals of biotite. Fair pyro.<br>579-580.3: Ijolite.<br>580.3-581.2: Lim.<br>581.2-583.9: Fine to med.-gr. lim. with good percentage of ferr. and good pyro. at 583.<br>583.9-589.1: Ijolite.<br>589.1-592.9: Massive lim., pyro.<br>592.9-597.5: Ijolite.<br>597.5-599: Lim. showing a rough lineation at 75° to core.<br>599-600: Ijolite.<br>RA: 1½x N | 0-83       | 575  | 600 | 25    | 0.31                                          |
| 600  | 625 | Mostly ijolite with 3.5' of lim. at 607.5-610.5; 605.7-606.2.<br>Fair pyro. at 606 and good pyro. at 608 and 610 in lim.<br>RA: 1½x N                                                                                                                                                                                                                                                             | 0-84       | 600  | 625 | 25    | 0.25                                          |
| 625  | 650 | Mostly ijolite slightly brecciated with a lim. inclusion at 628-630.4, showing rich pyro. from 629-631 in lim. and brecciated ijolite.<br>632.5-633: Very rich pyro. biotite-rich in lim. Visible betafite at 647.<br>RA: 2x N                                                                                                                                                                    | 0-85       | 625  | 650 | 25    | 0.49                                          |
| 650  | 675 | 650-651.1: Ijolite.<br>651.1-675: Mostly lim. with 2" of ijolite breccia at 672.<br>672.5-673.7: Ijolite breccia.<br>Lim. has a fair amount of ferr.                                                                                                                                                                                                                                              | 0-86       | 650  | 675 | 25    | 0.21                                          |

COULLEE & HEADWAY OKA PROPERTY

Hole 23

Direction: 240° (appr.)

Location: Lot 195

Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                            | Sample No: | From | To  | Width | Assays        |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|---------------|
|      |     |                                                                                                                                                                                                                                                                                                                                |            |      |     |       | Ch 05<br>42 5 |
|      |     | and slight lineation at 45°.<br>Fair pyro. throughout with a little more at 656' and 674-675 although the RA is not so high as above in the box.<br>RA: 2x N                                                                                                                                                                   |            |      |     |       |               |
| 675  | 700 | Mostly lim. as above with ijolite at the following: 681-684; 687.5; 689-689.8; 692-693; 698.6-700. Fair pyro. thruout and some beta-fite at contact between lim. and ijolite inclusions.<br>RA: 1½x N                                                                                                                          | 0-87       | 675  | 700 | 25    | 0.51          |
| 700  | 725 | 700-701: Ijolite.<br>701-706.5: Lim. Slight lineation.<br>706.5-708.5: Brecciated ijolite.<br>708.5-711.2: Lim.<br>711.2-716.8: Ijolite.<br>716.8-718.7: Lim.<br>718.7-725: Brecciated ijolite with higher % of lim.<br>Rich pyro. thruout especially in the lim. and at the contact between the ijolite and lim.<br>RA: 1½x N | 0-88       | 700  | 725 | 25    | 0.33          |
| 725  | 750 | 725-729: Brecciated ijolite little higher % of lim. as at end of previous box.<br>729-750: Mostly massive lim. not too much ferr.- slight lineation. Fair pyro. thruout, & good pyro. at 742.5 and 748; also at contact between little blob of ijolite and lim. at 735.8.<br>RA: over 2x N                                     | 0-89       | 725  | 750 | 25    | 0.27          |
| 750  | 775 | Massive lim. as above with a little pyro. thruout. Some dark red pyro. at 764.5.<br>Slight lineation in lim. Pyro. is associated with pale green mineral.<br>RA: 2x N                                                                                                                                                          | 0-90       | 750  | 775 | 25    | 0.17          |
| 775  | 800 | 775-782.5: Massive lim. with a little fine pyro. thruout.<br>782.5-789.5: Ijolite brecciated with a little fine pyro. in the seams of biotite and calcite such as 787.8.                                                                                                                                                       | 0-91       | 775  | 800 | 25    | 0.16          |

COULEE & HEADWAY OKA PROPERTY

Hole 23      Direction: 240° (appr.)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                     | Sample No: | From | To  | Width | Assays                         |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|--------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                         |            |      |     |       | Ca <sub>2</sub> O <sub>5</sub> |
|      |     | 789.5-792.3: Lim. as above.<br>792.3-800: Ijolite brecciated.<br>RA: 1½x N                                                                                                                                                                                                                                              |            |      |     |       |                                |
| 800  | 825 | 800-804.1: Brecciated Ijolite.<br>804.1-825: Massive lim. with considerable ferr.<br>815.5-816.6: Ijolite.<br>803.2-804.1: Very rich pyro. at contact; Heavy biotite magnetite.<br>821.3-822.4: Very rich pyro. in lim. associated with more ferr. and pale green mineral. Elsewhere in box only fair pyro.<br>RA: 2x N | 0-92       | 800  | 825 | 25    | 0.31                           |
| 825  | 850 | 825-828.5: Lim.<br>828.5-829.9: Ijolite breccia.<br>829.9-830.5: Lim.<br>830.5-833.0: <del>Lim</del> Ijolite breccia.<br>833-837.6: Lim.<br>837.6-839: Ijolite.<br>839-840: Lim.<br>840-849.9: Ijolite.<br>Lim. typical with fair pyro. especially at 845.5.<br>RA: over 2x N                                           | 0-93       | 825  | 850 | 25    | 0.31                           |
| 850  | 875 | Massive lim. showing faint lineation at 55° to core. More ferr. and magnetite than ordinary lim. Strongly radioactive throughout specially 850-852 with good soda pyroxene, magnetite and rich pyro. Some pyro. throughout.<br>RA: 3x N                                                                                 | 0-97       | 850  | 875 | 25    | 0.29                           |
| 875  | 900 | Mainly massive lim. as above with inclusions of Ijolite breccia from 895.5-898.5. Good pyro. thruout especially at 876.5, 893.6. Also pyro. in and along the contacts with the green ferr.<br>RA: 1½x N                                                                                                                 | 0-98       | 875  | 900 | 25    | 0.28                           |
| 900  | 925 | 900-904: Lim. with some visible pyro. at 903.5.<br>904-925: Massive med-gr. Ijolite light green in colour with a fair amount of alkaline inclusions<br>Flesh coloured.                                                                                                                                                  | 0-110      | 900  | 925 | 25    | 0.22                           |



COULEE & HEADWAY OKA PROPERTY

Hole 23      Direction: 240° (appr.)      Location: Lot 195  
Dip: 60°

| From  | To   | Log                                                                                                                                                                                                                                                           | Sample No: | From   | To     | Width | Assays |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|--------|
|       |      |                                                                                                                                                                                                                                                               |            |        |        |       | Ob 205 |
| RA: N |      |                                                                                                                                                                                                                                                               |            |        |        |       |        |
| 925   | 950  | 925-938: Same as 904-925 (brecciated ijolite).<br>938-950: Mostly med.-gr. lim. with ijolite inclusions at 940.2-940.7; 942.5-942.8; . Good pyro. at 938-939.<br>942-944: Rich pyro. in biotite, magnetite, pyroxene-rich lim.<br>RA: 1½x N                   | 0-111      | 925    | 950    | 25    | 0.45   |
| 950   | 975  | 950-961.5: Massive lim. with little ferr. and apatite; fair pyro. thruout.<br>961.5-972.8: Massive ijolite with carbonated inclusions: 969.9-970.9; 972.2-972.5.<br>972.5-975: Barren carbonate rock.<br>RA: 1½x N                                            | 0-112      | 950    | 975    | 25    | 0.30   |
| 975   | 1000 | 12' of carbonated rock;<br>975-977; 978.8-979.7; 985-986.9; 993-1000.<br>Rich pyro. at: 978.8-979.7.<br>The rest is ijolite somewhat brecciated from 977-978; 982.8-984.5; .<br>RA: 1½x N                                                                     | 0-113      | 975    | 1000   | 25    | 0.19   |
| 1000  | 1025 | Mostly carbonated rock slightly lineated at 52° to core and altered in a few sections.<br>Ijolite: 1001.1-1002.8; 1005.7-1008.8; 1020.6-1021; 1023.7-1025.<br>No visible pyro.<br>RA: 1½x N                                                                   | 0-114      | 1000   | 1025   | 25    | 0.21   |
| 1025  | 1050 | Massive fine-gr. ijolite with minor barren carbonated inclusions at 1039.4-1039.7; 1040.8-1041.8.<br>No visible pyro.<br>RA: N                                                                                                                                | 0-136      | 1025   | 1050   | 25    | 0.14   |
| 1050  | 1100 | 1050-1071.8: Same as above.<br>1071.8-1075: Med.-gr. lim. with little ferr. and some pyro. throughout. Faint lineation at 44° to core.<br>1050-1075: RA: 1½x N<br>1075-1100: Same lim. as from 1071.8-1085.5.<br>Minor pyro. at 1080.5 & 1085.5.<br>RA: 1½x N | 0-137      | 1050   | 1071.8 | 21.8  | 0.17   |
|       |      |                                                                                                                                                                                                                                                               | 0-115      | 1071.8 | 1100   | 28.2  | 0.16   |

COULEE & HEADWAY OKA PROPERTY

Hole 23      Direction: 240° (appr.)      Location: Lot 195  
Dip: 60°

| From | To   | Log                                                                                                                                                                                                               | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
| 1100 | 1125 | Same as above with a little more ferr. and no visible pyro.<br>RA: N                                                                                                                                              | 0-116      | 1100 | 1125 | 25    | 0.13                                          |
| 1125 | 1150 | Same as above with 2 narrow ijolite inclusions at 1140.5 & 1149.7.<br>Minor pyro. at 1147.5.<br>RA: N                                                                                                             | 0-117      | 1125 | 1150 | 25    | 0.095                                         |
| 1150 | 1175 | Finer-gr. lim. with less ferr. and showing a good lineation at 45° to core formed mostly by biotite crystals here more abundant. Fair, fine pyro. throughout, specially at 1163.2, 1164.5, 1167.7, 1160.<br>RA: N | 0-118      | 1150 | 1175 | 25    | 0.15                                          |
| 1175 | 1200 | Same as above. Good fine pyro. from 1193-1194.5. Fair at 1198-1199.5; 1176.<br>RA: 1½x N                                                                                                                          | 0-119      | 1175 | 1200 | 25    | 0.20                                          |
| 1200 | 1225 | Same lineated lim. as above; fair fine pyro. at 1200-1205 associated with the biotite and soda pyroxene. Good pyro. at 1214.3-1215 and some throughout.<br>RA: 1½x N                                              | 0-120      | 1200 | 1225 | 25    | 0.12                                          |
| 1225 | 1250 | Same type of lim. with a rough lineation at 40° to core and fair amount of accessory minerals. Pyro thruout specially good from 1233-1236.8; 1241-1242; 1248.<br>RA: 1½x N                                        | 0-126      | 1225 | 1250 | 25    | 0.28                                          |
| 1250 | 1275 | Same as above with more pyroxene in elongate crystals. Good pyro. thruout, specially at 1259; 1265.5-1266.8; 1268.4-1270; 1270.9-1272.2.<br>RA: 1½x N                                                             | 0-127      | 1250 | 1275 | 25    | 0.59                                          |
| 1275 | 1300 | Same as above with less pyroxene and slight lineation at 45° to core. Pyro. throughout, specially good at 1278.5; 1281.8; 1297.8-1298.3; 1275-1275.6.<br>RA: 2x N                                                 | 0-138      | 1275 | 1300 | 25    | 0.16                                          |

1300 END OF HOLE.



COULEE & HEADWAY OKA PROPERTY

Hole 24      Direction: 245° (appr.)      Location: Lot 195  
Dip: 30°

| From | To  | Log                                                                                                                                                                                                                                                                                      | Sample No: | From | To   | Width | Assays                              |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                          |            |      |      |       | $\frac{\text{Cb}}{\%} \frac{20}{5}$ |
| 0    | 30  | Casing.                                                                                                                                                                                                                                                                                  |            |      |      |       |                                     |
| 30   | 50  | 30-32: Boulders and fine-gr. ijolite.<br>32-50: Massive lim. with 1' ijolite at 35'. Minor pyro. throughout, especially at 37.5, 42. Unusual amount of brown silicate mineral.<br>RA: 1½x N                                                                                              | 0-73       | 32   | 50   | 18    | 0.20                                |
| 50   | 75  | Same type of lim. as above except that from 56.3 to 72, 1/6 to 1/8 of core is ijolite, the core paralleling the contact and showing it fine. No ijolite from 62-63.5 and visible pyro. at 62.5.<br>Ground core: 74 to 76.1.<br>RA: 1½x N                                                 | 0-74       | 50   | 76.7 | 26.7  | 0.22                                |
| 75   | 100 | 75-76.7: Same as above with visible pyro. at 76.5.<br>76.7-81: Fine-gr. ijolite.<br>81-89.7: Lamprophyre showing medium size crystals of biotite, titanau-gite and olivine. 3" calcite inclusion at 88.5.<br>89.7-92.1: Massive fine-gr. ijolite.<br>92.1-100: Lamprophyre.<br>RA: 1½x N | 0-75       | 76.7 | 100  | 23.3  | 0.047                               |
| 100  | 125 | 100-112: Lamprophyre with 2 narrow (2") calcite inclusions.<br>112-117: Fine-gr. ijolite.<br>117-125: Lamprophyre.<br>RA: 1½x N                                                                                                                                                          |            |      |      |       |                                     |
| 125  | 150 | 125.6-130.8: Massive fine pale gray nordmarkite? (mostly all feldspar).<br>130.8-150: Mostly med.-grl biotite rich groundmass with ferr. and minor calcite. Typical lamprophyre from 142.4-144.<br>RA: 1½x N                                                                             |            |      |      |       |                                     |
| 150  | 175 | Typical lamprophyre with few sections 153.5-154, 161.5-162.3, with coarser- biotite rich groundmass.<br>RA: 1½x N                                                                                                                                                                        |            |      |      |       |                                     |

COULEE & HEADWAY OKA PROPERTY

Hole 24      Direction: 245° (appr.)      Location: Lot 195  
Dip: 30

| From | To  | Log                                                                                                                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|--------|
|      |     |                                                                                                                                                                                                                                                                                              |            |      |     |       | Cb 2.5 |
| 175  | 200 | Lamprophyre as above with coarser biotite-rich rock and with pyroxene-calcite groundmass at the following: 183.5-192; 193.5-197.8.<br>Some seems of lim. parallel to core.<br>RA: 1½x N with over double at 190.5.                                                                           |            |      |     |       |        |
| 200  | 225 | Same as above with pyroxene, calcite and coarser biotite-rich groundmass at: 200-208; 214-219; 201.5-202; 219-220; Fine-gr. dark green dike.<br>Lim.: 219, 220 for 3".<br>RA: 1½x N                                                                                                          |            |      |     |       |        |
| 225  | 250 | Typical lamprophyre, quite large phenocrysts.<br>RA: 1½x N                                                                                                                                                                                                                                   |            |      |     |       |        |
| 250  | 275 | 250-260: Lamprophyre.<br>260-264.4: Coarser biotite-rich groundmass with more nepheline.<br>264.4-275: Mostly ijolite with some calcite inclusions.<br>RA: 1½x N                                                                                                                             |            |      |     |       |        |
| 275  | 300 | 275-276: Fine barren lim.<br>276-290: Microijolite.<br>290-291.8: Biotite-rich ijolite.<br>Coarser biotite rich ground.<br>291.8-293: Lamprophyre.<br>293-298: Ijolite.<br>298-300: Lim.<br>RA: 1½x N                                                                                        |            |      |     |       |        |
| 300  | 325 | 300-311: Mostly lim. with a few inclusions of altered nepheline.<br>307.2-308.1: Lim. peppered with fine-gr. light brown vitreous crystals. This section is strongly radioactive.<br>311-325: Biotite-rich rock with some calcite, pyroxene, ijolite and lamprophyre inclusions.<br>RA: 2x N | 0-77       | 300  | 325 | 25    | 0.078  |

COULEE & HEADWAY OKA PROPERTY

Hole 24      Direction: 245° (appr.)      Location: Lot 195  
Dip: 30°

| From | To  | Log                                                                                                                                                                                                     | Sample No: | From To Width | Assays                              |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-------------------------------------|
|      | 6   |                                                                                                                                                                                                         |            |               | Cb <sub>2</sub> O <sub>5</sub><br>% |
| 325  | 350 | 325-326.5: Microijolite.<br>326.5-350: Mostly coarser biotite with calcite, pyroxene & some nepheline.<br>RA: 1½x N                                                                                     |            |               |                                     |
| 350  | 375 | Same as above: Replacement rock rich in biotite, and with calcite pyroxene and nepheline.<br>Some narrow seams of ijolite.<br>352-352.5: Lim.<br>Some high kicks however, no visible pyro.<br>RA: 1½x N |            |               |                                     |
| 375  | 400 | Same as above.<br>A few seams of lim. at: 389 and 391.<br>RA: 1½x N<br><br>396: END OF HOLE.                                                                                                            |            |               |                                     |

COULLEE & HEADWAY OKA PROPERTY

Hole 25      Direction: 65° (appr.)      Location: Lot 195  
 Dip: 45° to E.

| From | To  | Log                                                                                                                                                                                                                     | Sample No: | From | To  | Width | Assays<br>$\text{Ca}_2\text{O}$<br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|--------------------------------------|
| 0    | 30  | Casing.                                                                                                                                                                                                                 |            |      |     |       |                                      |
| 30   | 35  | Boulders.                                                                                                                                                                                                               |            |      |     |       |                                      |
| 35   | 50  | Massive altered lim. with minor magnetite, biotite & dark brown crystals. Visible med.-gr. brown, resinous, garnet-looking crystals. ( Probably pyro.)<br>RA: N                                                         | 0-49       | 35   | 50  | 15    | 0.44                                 |
| 50   | 75  | Same as above with magnetite inclosed in the resinous garnet-looking crystals. Numerous light brown crystals of pyro. at 57° & 59.5.<br>RA: N                                                                           | 0-50       | 50   | 75  | 25    | 0.40                                 |
| 75   | 100 | 83.7-90.5: Badly weathered med.-gr. ijolite.<br>93.7-96.3: Core missing and badly weathered chalky calcite.<br>The rest is the same as above.<br>( With visible pyro. at 98.6-99.5 & 83.)<br>RA: 1½x N                  | 0-51       | 75   | 100 | 25    | 0.20                                 |
| 100  | 125 | Massive lim. weathered & pitted only from 121 to 123; few narrow inclusions of ijolite. There are more greenish pyroxene crystals & some apatite. Good pyro. at 104.1, 106, 124, in more reddish crystals.<br>RA: 1½x N | 0-52       | 100  | 125 | 25    | 0.21                                 |
| 125  | 150 | Massive coarser grained lim. with more magnetite & ferr. Visible pyro. throughout.<br>RA: 1½x N                                                                                                                         | 0-53       | 125  | 150 | 25    | 0.25                                 |
| 150  | 175 | Same as above with pyro. in fine grains but may be a little more abundant.<br>RA: 1½x N                                                                                                                                 | 0-54       | 150  | 175 | 25    | 0.100                                |
| 175  | 200 | Same as above but with less opaques and ferr.<br>Fine dissiminated red pyro. throughout.<br>RA: 1½x N                                                                                                                   | 0-55       | 175  | 200 | 25    | 0.078                                |

COULEE & HEADWAY OKA PROPERTY

Hole 25      Direction: 65° (appr.)      Location: Lot 195  
Dip: 45° to E.

| From | To  | Log                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 200  | 225 | Massive lim. with a little more ferr. than in above box. Fine reddish pyro. crystals containing magnetite inclusions at many places such as 213.<br>RA: 2x N                                 | 0-56       | 200  | 225 | 25    | 0.119                                         |
| 225  | 250 | Same as above box: fine reddish pyro. 226-227 Sand & broken core. 248.5-249.5: 2 narrow seams. Fine grained dark grey dyke.<br>RA: 1½x N                                                     | 0-57       | 225  | 250 | 25    | 0.17                                          |
| 250  | 275 | Same as above.<br>253.1-254.7: Ijolite.<br>256: pyro. A crystal of dark pyro. surrounded by a crystal of lighter reddish pyro.<br>261.5: Fine crystals of typical dark red pyro.<br>RA: 2x N | 0-58       | 250  | 275 | 25    | 0.101                                         |
| 275  | 300 | Same as above. Less ferr. up to 287.3<br>Many fine dark crystals of pyro. at 279 & 283.5.<br>RA: 1½x N                                                                                       | 0-59       | 275  | 300 | 25    | 0.105                                         |
| 300  | 325 | Same as above.<br>301.6-303.5: Fine-gr. dark grey dyke. Pyro. at 309.5.<br>RA: 1½x N                                                                                                         | 0-60       | 300  | 325 | 25    | 0.085                                         |
| 325  | 350 | Massive lim.<br>326-327: Ijolite.<br>329.5-340.5: Rusty weathered core somewhat broken. More ferr.<br>No visible pyro.<br>RA: 1½x N                                                          | 0-66       | 325  | 350 | 25    | 0.125                                         |
| 350  | 375 | Massive lim. same as above.<br>Ijolite at 358, 370.5, 371.<br>No visible pyro.<br>Reddish brown minerals possibly iron carbonate.<br>RA: 1½x N                                               |            |      |     |       |                                               |
| 375  | 400 | Same as above.<br>Ijolite at 377. Starting at 395, more pyroxene also more                                                                                                                   |            |      |     |       |                                               |

COULEE & HEADWAY OKA PROPERTY

Hole 25 Direction: 65° (appr.) Location: Lot 195  
Dip: 45° to E.

| From | To | Log | Sample No: | From To Width Assays |
|------|----|-----|------------|----------------------|
|------|----|-----|------------|----------------------|

magnetite than usual.  
No visible pyro.  
RA: 1½x N

|     |     |                                                                                                                                                                                                                                         |  |  |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 400 | 425 | 400-416: Mostly lim. showing faint lineation at 45°. Several narrow sections of ijolite.<br>406.5: Seam of biotite replacement rock with betafite.<br>416-425: Badly altered, pitted lim.<br>Core missing: 419-420; 422.5-425.<br>RA: N |  |  |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

|     |     |                                                                                                                                                                                                                                                                                               |  |  |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 425 | 450 | 425-428.5: Lim. as above.<br>428.5-430: Biotite replacement rock with a few pyro. crystals.<br>At 440, hit a water seam with much sand coming up along the rods. These got struck and the hole was lost with 350' of rods left in the hole including the core barrel and core from 430-440... |  |  |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

440: END OF HOLE.



COULEE & HEADWAY OKA PROPERTY

Hole 26      Direction: 245°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                  | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 0    | 25  | Overburden.                                                                                                                                                                                                                                                                                                                          |            |      |     |       |                                               |
| 25   | 50  | Massive altered lim. pitted & rusty with minor magnetite, biotite. Many light brown to flesh-colored crystals with same resinous lustre as pyro. ( exactly the same as in the beginning of hole 25 which ran 0.44% Cb <sub>2</sub> O <sub>5</sub> ). Two narrow dykes at 25 & 26, <sup>245</sup> 3-45.6. Good pyro. at 36'.<br>RA: N | 0-94       | 25   | 50  | 25    | 0.29                                          |
| 50   | 75  | Same as above. Many crystals at 55-56. Pyro. at 63.6.<br>RA: N                                                                                                                                                                                                                                                                       | 0-95       | 50   | 75  | 25    | 0.33                                          |
| 75   | 100 | Less altered lim. with a rough lineation at 40° to core. In some sections such as 88.3-89.5; 93-94.2, much brown silicate minerals. 96.2-100: Fine-gr. barren ijolite. Good pyro. at 88.1 and minor at 78.3.<br>RA: 1½x N                                                                                                            | 0-96       | 75   | 100 | 25    | 0.114                                         |
| 100  | 125 | 100-106.5: Green altered ijolite. 106.5-125: Fine to med.-gr. carbonate rocks with minor ferr, biotite and apatite. No visible pyro.<br>RA: 1½x N                                                                                                                                                                                    | 0-99       | 100  | 125 | 25    | 0.066                                         |
| 125  | 150 | Massive coarser-gr. and more crystalline lim. with less accessory minerals which are medium to coarse-gr. Minor pyro. at 147-147.5.<br>RA: 1½x N                                                                                                                                                                                     | 0-100      | 125  | 150 | 25    | 0.033                                         |
| 150  | 175 | Same as above; Massive coarse crystalline lim. with a little more biotite. Pyro. at 150.7; 161.5; 169.<br>RA: 1½x N                                                                                                                                                                                                                  | 0-101      | 150  | 175 | 25    | 0.102                                         |
| 175  | 200 | Same as above. Radioactive pyro. at 185.5; 190.5; 194.5; resinous lustre with small black grains in it. Fair coarse pyro. at 186.5-187.3                                                                                                                                                                                             | 0-102      | 175  | 200 | 25    | 0.14                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 26

Direction: 245°  
Dip: 45°

Location Lot 195

| From | To  | Log                                                                                                                                                                                                           | Sample No: | From | To  | Width | Assays |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|--------|
|      |     |                                                                                                                                                                                                               |            |      |     |       | 0.05   |
|      |     | and minor pyro. throughout.<br>RA: 1½x N                                                                                                                                                                      |            |      |     |       |        |
| 200  | 225 | Same as above with a few narrow inclusions of hard, fine-gr. ijolite at 214.2-215 & 224.6-225. Minor pyro. at 200.5, 217, 221.9 and more from 207.3 to 208.7.<br>RA: 1½x N                                    | 0-103      | 200  | 225 | 25    | 0.06   |
| 225  | 250 | 225-248.5: Same as above with more biotite. In places the lim. shows a brown alteration. Pyro. at 246.7-247.1 in finer-gr. lim. Also at 241.6.<br>248.4-250: Biotite-magnetite replacement rock.<br>RA: 1½x N | 0-104      | 225  | 250 | 25    | 0.02   |
| 250  | 275 | 250-252: Biotite replacement rock.<br>252-275: Massive med.-gr. lim. with low biotite and ferr.<br>No visible pyro.<br>RA: N                                                                                  | 0-105      | 250  | 275 | 25    | 0.04   |
| 275  | 300 | Same lim. as above. Ground core: 287.3-288.5; 290-291.2; 293.9-294.3; Low pyro. at: 280-281.3 & 294.5-296.5.<br>RA: 1½x N                                                                                     | 0-106      | 275  | 300 | 25    | 0.09   |
| 300  | 325 | Same as above with more biotite. 310.7-312.6: Hard fine-gr. green ijolite.<br>Minor pyro. at 306.<br>RA: N                                                                                                    | 0-107      | 300  | 325 | 25    | 0.03   |
| 325  | 350 | Same as above but somewhat finer-gr.<br>Minor pyro. at 326.1.<br>RA: 1½x N                                                                                                                                    | 0-108      | 325  | 350 | 25    | 0.03   |
| 350  | 375 | Same as above with 4' of almost pure crystalline lim. from 359 to 363. At 366 & 372, some reddish grains in radioactive rock.<br>No visible pyro.<br>RA: 1½x N                                                | 0-109      | 350  | 375 | 25    | 0.06   |

COULEE & HEADWAY OKA PROPERTY

Hole 26

Direction: 245°  
Dip: 45°

Location Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Ch 0<br>% 2 5 |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------|
| 375  | 400 | Massive lim. with more biotite and pyroxene in fine to coarse grains. Fair red medium-gr. pyro. at: 386-389; 392.5-395; 397-400, showing resinous luster at 398.<br>RA: N                                                                                                                        | 0-121      | 375  | 400 | 25    | 0.11                    |
| 400  | 425 | Same as above with 2 narrow ijolite inclusions at 415.5 & 417.3 (5") at 50° to core. Pyro. at 408.5. Fair pyro. at: 420.9-422.7.<br>RA: N                                                                                                                                                        | 0-122      | 400  | 425 | 25    | 0.06                    |
| 425  | 450 | In general same as above with a faint lineation at 35° to core. 432-434: Magnetite-biotite-calcite pyroxene rock. (Fine to med.) 443-444.5: Fine-gr. ijolite. No visible pyro.<br>RA: N                                                                                                          |            |      |     |       |                         |
| 450  | 475 | Same as above. 457-459: Altered green ijolite. 459-462: Biotite-magnetite-pyroxene calcite rock. No visible pyro.<br>RA: N                                                                                                                                                                       |            |      |     |       |                         |
| 475  | 500 | Massive lim. with more biotite and pyroxene in coarser crystals. Some magnetite. No visible pyro.<br>RA: N                                                                                                                                                                                       |            |      |     |       |                         |
| 500  | 525 | Same as above with an ijolite inclusion from 512.3-513.5. Faint lineation at 30° to core. No visible pyro.<br>RA: N                                                                                                                                                                              |            |      |     |       |                         |
| 525  | 550 | 525-531.3: Massive barren lim. 531.3-531.8: Ijolite and biotite rock. 531.8-532.7: Barren lim. 532.7-533.2: Fine-gr. ijolite. 533.2-533.9: Barren lim. 533.9-538: Ijolite. 538-542.1: Lamprophyre. 542.1-548: ijolite with 2 lim. inclusions. 548-550: Massive lim. with fair disseminated pyro. | 0-123      | 525  | 550 | 25    | 0.15                    |

COULEE & HEADWAY OKA PROPERTY

Hole 26

Direction: 245°  
Dip: 45°

Location Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays        |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|---------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |      |     |       | Cb 0<br>% 2 5 |
|      |     | 530-530.9: Abundant light brown non radioactive and resinous looking crystals associated with pyroxene. Some could be pyro.<br>RA: N                                                                                                                                                                                                                                                                                                                                                        |            |      |     |       |               |
| 550  | 575 | 550-551: Massive lim. with good biotite and pyroxene; good pyro. in fine to med.-gr. crystals.<br>551-563.3: A mixture of lamprophyre and green fine ijolite sometimes brecciated, and with narrow lim. inclusions at 561 & 561.9 carrying pyro.<br>563.3-564.2: Lim. with fair pyro.<br>564.2-565.1: Lamprophyre.<br>565.1-575: Mostly white barren crystalline lim. with a grey fine-gr. section from 572 to 575. Ijolite inclusions at 567-567.7 and at 569.<br>Pyro. at 568.5.<br>RA: N | 0-128      | 550  | 575 | 25    | 0.22          |
| 575  | 600 | 575-581: Massive fine bluish grey lim.<br>581-585.6: Ijolite.<br>585.6-588.6: Lim.<br>588.6-589.8: Ijolite.<br>589.8-595.6: Mostly massive barren white crystalline lim, fine-gr. from 590.6-595.6.<br>595.6-600: Lamprophyre.<br>RA: 1½x N                                                                                                                                                                                                                                                 | 0-129      | 575  | 600 | 25    | 0.21          |
| 600  | 625 | Mostly all lamprophyre.<br>603.7-606; 611.5-612.3: Fine-gr. bluish grey lim. Some lim. elsewhere in long narrow inclusions parallel to core.<br>RA: N                                                                                                                                                                                                                                                                                                                                       |            |      |     |       |               |
| 625  | 650 | 625-626: Lamprophyre.<br>626-626.5: Microijolite rock.<br>626.5+ Biotite-calcite-ijolite rock.<br>626.5-630.2: Massive bluish grey barren lim.<br><br>630.2: END OF HOLE.                                                                                                                                                                                                                                                                                                                   |            |      |     |       |               |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location: Lot 195  
Dip: 48°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays                  |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |      |     |       | Ch <sup>20</sup> 5<br>% |
| 0    | 70  | Casing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |      |     |       |                         |
| 70   | 100 | 70-70.5: Microijolite.<br>70.5-75: Massive bluish-grey med.-gr. lim. with little accessory minerals except from 72-72.8 which is radioactive, has more biotite and some pyrite & pyro. throughout.<br>RA: 1½x N<br><br>75-100: In general same as above but richer in pyro.<br>80-81.5: Magnetite-biotite-pyrite with pyro.<br>82-83: Biotite-pyrite-magnetite with pyro.<br>85.8-88.1: Calcite-magnetite-biotite-pyroxene rock with good pyro.<br>92.5 and 93.4: Inclusions of magnetite, biotite with rich pyro.<br>93.7-94.5: Calcite-magnetite-pyroxene and apatite.<br>Good pyro. throughout.<br>RA: 1½x N | C-132      | 70.5 | 100 | 29.5  | 0.56                    |
| 100  | 125 | 100-104.7: Same as above but showing a yellowish alteration.<br>104.7-106.7: Brecciated microijolite.<br>106.7+ Massive lim. becoming whiter & coarser with less accessory minerals in coarser grains at 112.<br>Good pyro. throughout and in medium to coarse crystals at 113.5; 119.5; and 124.7.<br>RA: N                                                                                                                                                                                                                                                                                                    | C-140      | 100  | 125 | 25    | 0.30                    |
| 125  | 150 | 125-135: Same as above with medium to coarse pyro. grains.<br>134.7: Ijolite inclusions.<br>135-150: Finer-grained bluish-grey lim. with more accessories.<br>Fine pyro. throughout, strongly radioactive at 142.7.<br>Blue sodalite at 140-141.5.<br>RA: N                                                                                                                                                                                                                                                                                                                                                     | C-141      | 125  | 150 | 25    | 0.32                    |
| 150  | 175 | Same as above. Coarse lim. becoming finer-grained at 160' with more                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C-142      | 150  | 175 | 25    | 0.19                    |

COULLEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sample No: | From | To  | Width | Assays        |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|---------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |      |     |       | Ch 0<br>% 2 5 |
|      |     | accessories and more pyro.<br>153 & 154: Two seams of fine-gr.<br>dark rock.<br>157-159: Core broken & crumbled.<br>150-160: Little pyro. especially at<br>153.5.<br>160-175: Good pyro.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                                               |            |      |     |       |               |
| 175  | 200 | 175-190: Same as above lim. with<br>considerable accessory minerals<br>but only a little pyro.<br>190-200: Coarser-gr. fairly<br>pure lim. no visible pyro.<br>192.2-193.2: Lamprophyre.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                                               | 0-143      | 175  | 200 | 25    | 0.113         |
| 200  | 225 | 200-213: White lim, less than 20%<br>accessory with a little pyr. (205.5)<br>especially with the accessory<br>minerals.<br>211.7-212.7; 206.6-209.3: Micro-<br>ijolite well brecciated with lim.<br>and biotite replacement; also some<br>fenite xenoliths. Some pyro. along<br>contact between the biotite repla-<br>cement and the lim. in the seams.<br>213-225: Microijolite less breccia-<br>ted and biotitized. Narrow seams<br>of white lim. Less than 20% accessories.<br>216.5; 217.5; 218.7-220.1; 222-224.7:<br>Little pyro. at contact of biotite<br>replacement rock and lim.<br>RA: N | 0-144      | 200  | 225 | 25    | 0.063         |
| 225  | 250 | Micro to medium-gr. ijolite<br>brecciated with seams of biotite<br>& lim.; some biotite-rich sections<br>also reddish altered nepheline as<br>well as fenite xenoliths.<br>No visible pyro.<br>225.5-226.4; 232.2-237.2: White<br>lim. a little under 20% acc.<br>Good pyro. especially in relation<br>to the soda pyroxene.<br>RA: N                                                                                                                                                                                                                                                               | 0-145      | 225  | 250 | 25    | 0.087         |



COULEE & HEADWAY OKA PROPERTY

Hole 27    Direction: 240°    Location: Lot 195  
 Dip: 45°

| From | To  | Log                                                                                                                                                                                                                  | Sample No: | From | To  | Width | Assays                      |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------|
|      |     |                                                                                                                                                                                                                      |            |      |     |       | $\frac{\text{Cb}^{20}}{25}$ |
| 250  | 275 | Micro to medium-gr. ijolite same as above, no visible pyro.<br>257-259.5: White lim. less than 5% acc., some fine pyro.<br>RA: N                                                                                     | 0-152      | 250  | 275 | 25    | 0.068                       |
| 275  | 300 | Micro to medium-gr. ijolite as above, no visible pyro.<br>Lim.: 283.8-284.5; 288.5-289.3.<br>Fair pyro.<br>291-291.8: Biotite replacement rock with yellowish-orange betafite.<br>RA: 1½x N                          | 0-153      | 275  | 309 | 34    | 0.18                        |
| 300  | 325 | 300-309: Same as above.<br>309-325: Massive lim. light blue in colour, 5-10% acc. Many light brown to flesh-coloured crystals of pyro. with evidently no radio-activity. A few small inclusions of ijolite.<br>RA: N | 0-154      | 309  | 325 | 16    | 0.38                        |
| 325  | 350 | Massive lim. same as above more than 15% acc.<br>Less pyro. than above and finer-gr. yellowish-orange in colour.<br>344-344.5: Microijolite.<br>RA: 1½x N                                                            | 0-155      | 325  | 350 | 25    | 0.11                        |
| 350- | 375 | Massive lim as above, 20% acc. Only a little fine pyro. yellowish-orange in colour.<br>RA: N                                                                                                                         | 0-156      | 350  | 375 | 25    | 0.02                        |
| 375  | 400 | Same as above. More than 20% accessory minerals. More biotite and magnetite especially at 376.5-377. No visible pyro.<br>392-392.6: Microijolite.<br>RA: 1½x N                                                       | 0-158      | 375  | 400 | 25    | 0.01                        |
| 400  | 425 | Same as above.<br>406.5-407.5; 413.7-417.7; 420.5-425: More than 40% acc. mostly biotite, magnetite and pyroxene calcite rock.<br>RA: 1½x N                                                                          | 0-159      | 400  | 425 | 25    | 0.04                        |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 340°      Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                     | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 425  | 450 | 425-447.5: Green-black biotite, magnetite, pyroxene, calcite replacement rock with a few ijolite inclusions left. No visible pyro.<br>447.5-450: Massive lim. with less than 5% acc.<br>RA: N                                                                           | 0-165      | 425  | 450 | 25    | 0.15                                          |
| 50   | 475 | 450-463: Massive lim. with biotite-rich inclusions at 451.5-452.7.<br>463-471: Pyroxene-calcite rock. Broken core from 456.5-458; 464.7-468.<br>471-475: Medium to coarse-gr. biotite-pyroxene-calcite-magnetite rock with a little reddish altered nepheline.<br>RA: N |            |      |     |       |                                               |
| 475  | 500 | 475-483: Medium to coarse grained biotite-pyroxene-calcite-magnetite rock grading into at 483-500 a pyroxene-calcite-biotite-magnetite rock.<br>RA: 1½x N                                                                                                               |            |      |     |       |                                               |
| 500  | 525 | Massive white to yellow lim. with more than 20% acc., mostly in coarse crystals. No visible pyro. Chalky barren type of lim.<br>RA: 1½x N                                                                                                                               |            |      |     |       |                                               |
| 525  | 550 | Same as above, more than 20% acc., in coarse crystals.<br>543.4-545.7: Fine-gr. light green calcite-pyroxene rock.<br>RA: 1½x N                                                                                                                                         |            |      |     |       |                                               |
| 550  | 575 | Mostly massive lim. dirty grey in colour more than 15% acc.<br>557.8-559.8: Pyroxene-calcite rock.<br>568.5-570: 3 narrow bands of ijolite.<br>571.3-572; 573-573.5: Lamprophyre.<br>565.4-567: Section of whiter lim. with good pyro.<br>RA: N                         | 0-174      | 550  | 575 | 25    | 0.08                                          |
| 575  | 600 | Dark grey lim. more than 20% acc. However very little biotite and                                                                                                                                                                                                       | 0-175      | 575  | 600 | 25    | 0.03                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                            | Sample No: | From | To    | Width | Assays        |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-------|-------|---------------|
|      |     |                                                                                                                                                                                                                                                                                                                                |            |      |       |       | Cb 0.5<br>2 5 |
|      |     | magnetite.<br>Slight lineation at 70° to core.<br>3 narrow bands of light grey<br>fine-gr. rock 0.5" wide.<br>596.3-600: Fine-gr. light green<br>pyroxene-calcite-magnetite rock.<br>RA: N                                                                                                                                     |            |      |       |       |               |
| 600  | 625 | 600-604: Fine-gr. light green<br>pyroxene-calcite-magnetite rock.<br>604-619.4: Lim.-massive more than<br>20% acc. Grey colour.<br>620-625: White lim. less than 5%<br>acc., some pyro.<br>RA: 1½x N                                                                                                                           | 0-176      | 600  | 625   | 25    | 0.09          |
| 625  | 650 | 625-639.5: Same grey lim. more than<br>20% acc.<br>639.5-649: Biotite-rich rock with<br>some calcite, pyroxene, ijolite and<br>also lamprophyre inclusions.<br>649-650: Light green medium-gr.<br>ijolite.<br>RA: 1½x N                                                                                                        |            |      |       |       |               |
| 650  | 675 | Mostly ijolite with biotite-pyroxene-<br>rich sections. Some fenite xenoliths<br>and minor narrow calcite seams.<br>RA: 1½x N                                                                                                                                                                                                  |            |      |       |       |               |
| 675  | 700 | Mostly brecciated ijolite with<br>biotite-pyroxene-rich sections.<br>Also some lamprophyre inclusions.<br>688.3: Biotite in calcite-bio-<br>tite seam.<br>693.4-694.4: Lim. less than 5% acc.<br>Many reddish crystals with a<br>vitreous lustre rather than the<br>resinous lustre of pyro.<br>694.8-696.6: Lim.<br>RA: 1½x N | 0-178      | 675  | 709.5 | 345   | 0.069         |
| 700  | 725 | 700-709.5: Mostly ijolite with<br>much less of the biotite and<br>pyroxene. Slight Brecciation.<br><br>709.5-725: Lim. slight lineation 56°; 0-179 709.5 725 15.5 0.17                                                                                                                                                         |            |      |       |       |               |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                 | Sample No: | From  | To    | Width | Assays                              |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                     |            |       |       |       | Cb <sub>2</sub> O <sub>5</sub><br>% |
|      |     | white colour, some yellowish, orange crystals of betafite or pyro. Also some brownish-red crystals with a bitreous lustre as in the previous box.<br>712-713.5: Some pyroxene-biotite-calcite rock.<br>RA: 1½x N                                                                                                                                    |            |       |       |       |                                     |
| 725  | 750 | Mostly pale blue to grey lim. more than 80% acc, mainly pyroxene, biotite and magnetite. Good fine pyro. in association with these accessory minerals. Also some brownish red crystals as above.<br>728.2-729; 732.5: Microijolite.<br>RA: 1½x N                                                                                                    | 0-180      | 725   | 755.7 | 30.7  | 0.13                                |
| 750  | 775 | Mostly brecciated ijolite with a few biotite-calcite-rich sections and minor pyrite.<br>750-755.6: Massive white lim. with fine pyro. throughout and brown vitreous-looking crystals.<br>Lim: 756.4-756.7; 759.4; 763.3-765.3; 770-770.6; 773.7-775.<br>Fine pyro. in.<br>RAF N                                                                     | 0-181      | 755.7 | 775   | 19.3  | 0.14                                |
| 775  | 800 | Mostly biotite-pyroxene-calcite rock with calcite & microijolite sections, coarse biotite crystals. Massive white to bluish grey lim. at 775.2-775.6; 777.7-779; 781; 787.5-788; 790.6-793; 794-796; 798-800. Good pyro. in lim. such as at 798.5 associated with fine biotite-magnetite & green silicate.<br>797.2-798: Microijolite.<br>RA: 1½x N | 0-182      | 775   | 800   | 25    | 0.19                                |
| 800  | 825 | Same as above.<br>Massive white bluish grey lim: 800-800.6; 801-802; 812.5-813.6; 818.3-820.5.<br>807-808.6: Dark grey calcite rock with a mottled appearance. Some fine straw to flesh                                                                                                                                                             | 0-187      | 800   | 825   | 25    | 0.16                                |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | coloured pyro. in lim. at<br>801 & 802.6.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                                      |            |      |     |       |                                               |
| 825  | 850 | 825-836.5: Fifty-fifty ijolite<br>and biotite-pyroxene-calcite rock<br>with calcite inclusions.<br>836.5-838.5: Dark grey lim., mot-<br>tled appearance.<br>838.5-850: Massive grey chalky lim.<br>with narrow seams of ijolite.<br>Good pyro. , no RA. throughout.<br>Small straw to flesh coloured<br>crystals. Also many brownish-<br>red crystals with the vitreous<br>lustre as encountered previously.<br>RA: N                       | 0-188      | 825  | 850 | 25    | 0.41                                          |
| 850  | 875 | 850-860.1: Massive lim. (white),<br>less than 20% acc.<br>852-853.9 & 858.5-859.9: Biotite-<br>pyroxene-calcite-rock.<br>Same pyro. mineralization as above.<br>860.1-875: Fine-gr. massive dark<br>grey lim., more than 20% acc., prac-<br>tically no biotite-magnetite.<br>RA: N                                                                                                                                                          | 0-189      | 850  | 875 | 25    | 0.31                                          |
| 875  | 900 | 875-879.2: Same dark grey lim. with<br>fine-gr. dyke along core.<br>879.2-890: 50% microijolite. 50%<br>biotite-pyroxene-calcite rock.<br>890-894: White lim., narrow sections<br>of biotite-pyroxene-calcite rock.<br>894-900: Mostly biotite-pyroxene-<br>calcite with a few seams of lim.<br>Did not observe any crystals of<br>typical pyro. etc... but fair<br>amount of dark-red vitreous<br>crystals especially in lim.<br>RA: 1½x N | 0-190      | 875  | 900 | 25    | 0.13                                          |
| 900  | 925 | Mostly biotite-pyroxene-calcite<br>rock with coarse crystals of<br>altered nepheline. Fine betafite?<br>in lim. at 904.5-914.5 & 920.5.<br>RA: 1½x N                                                                                                                                                                                                                                                                                        | 0-199      | 900  | 925 | 25    | 0.11                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 27      Direction: 240°      Location: Lot 195  
                  Dip: 45°

| From | To    | Log                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 925  | 950   | Mostly pyroxene-calcite rock with large phenocrysts of biotite & altered nepheline. Numerous inclusions of ijolite as angular fragments and rounded masses. Also a few inclusions of white lim.<br>931.5-932.4: Dykes of microijolite.<br>RA: N | 0-200      | 925  | 950 | 25    | 0.05                                          |
| 950  | 975   | Mostly ijolite, light green med.-gr., 25% biotite-rich sections. Betafite in very fine yellowish orange crystals in biotite and calcite at: 953; 964.5; & 974.5.<br>RA: 1½x N                                                                   | 0-201      | 950  | 975 | 25    | 0.09                                          |
| 975  | 1000  | Mostly ijolite with biotite rich sections.<br>978-983.5 & 990-994: White lim. less than 5% acc.<br>979-983.5: Broken core.<br>Many light brown vitreous crystals in the lim.?<br>RA: 1½x N                                                      |            |      |     |       |                                               |
| 1000 | 10185 | Mostly pyroxene-biotite-calcite rock with minor inclusions of ijolite.<br>RA: N<br><br>1018.5: END OF HOLE.                                                                                                                                     |            |      |     |       |                                               |



COULEE & HEADWAY OKA PROPERTY

Hole 28      Direction: 240°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays                            |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                  |            |      |     |       | $\text{Cb}_{20}$<br>$\frac{5}{5}$ |
| 0    | 46  | Casing.                                                                                                                                                                                                                                                                                                                                          |            |      |     |       |                                   |
| 46   | 50  | Massive lim. Slightly yellowish, about 10% acc., good pyro.<br>46-47.5: Core somewhat broken.<br>RA: 1½x N                                                                                                                                                                                                                                       | 0-146      | 46   | 75  | 26    | 0.12                              |
| 50   | 75  | Lim. Pale blue colour, med.-gr. Considerable amount of pale blue and sea green coloured mineral sodalite?<br>Some slight lineation at 54°. Accessory minerals, however less biotite.<br>Some fine pyro. at 50-55. Many pale brown crystals like monticellite.<br>RA: 1½x N                                                                       |            |      |     |       |                                   |
| 75   | 100 | Lim. Slight lineation, less of the pale blue mineral. Very good pyro. from 80-82 along with an ijolite inclusion.<br>83-86.5: Lost core and a little sand and broken rock.<br>93-94: Lost core.<br>Outside of the section (80-82) there is a little pyro. thruout, also still a fair amount of the pale brown mineral monticellite?<br>RA: 1½x N | 0-147      | 75   | 100 | 25    | 0.51                              |
| 100  | 125 | 100-105: Same as above fair pyro.<br>105-120: Decomposed lim. with rusty sections. Fair pyro.<br>Core missing: 110.8-114; 116.5-119.5.<br>120-125: Massive lim. as above, less pale brown mineral and fair pyro., less than 10% acc.<br>RA: 1½x N                                                                                                | 0-148      | 100  | 125 | 25    | 0.30                              |
| 125  | 150 | Massive lim., 10-20% acc. Good pyro. throughout. Core is rusty & decomposed.<br>Core missing: 126-127.5; 128.3-130; 131.5-134; 136.7-140; 140.8-145.8; 145-148.<br>RA: 1½x N                                                                                                                                                                     | 0-149      | 125  | 150 | 25    | 0.51                              |

COULEE & HEADWAY OKA PROPERTY

Hole 28      Direction: 240°      Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                           | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 150  | 175 | Massive lim., 10-20% acc.<br>Fair pyro. thruout, more of the pale brown mineral monticellite, also some pale blue sodalite?<br>150-155: Core is rusty & decomposed.<br>155-158: Core missing.<br>166.5-169.3: Core missing.<br>172.5-175: Lim. is whiter with less than 10% acc.<br>RA: 1½x N | 0-150      | 150  | 175 | 25    | 0.49                                          |
| 175  | 200 | Lim., light blue to yellow in colour due to pale blue mineral sodalite; 15-20% acc.<br>Very little biotite & magnetite.<br>Fair pyro. thruout, good at 187.<br>180.3-181.3: Lost core.<br>RA: 1½x N                                                                                           | 0-151      | 175  | 200 | 25    | 0.20                                          |
| 200  | 225 | Lim., same as above more blue mineral more than 20% acc. slight lineation at 57°. A few flesh coloured crystals of pyro., no typical crystals were observed.<br>RA: N                                                                                                                         | 0-157      | 200  | 225 | 25    | 0.21                                          |
| 225  | 250 | Same as above, lineation at 62°. No visible pyro.<br>RA: N                                                                                                                                                                                                                                    | 0-160      | 225  | 250 | 25    | 0.093                                         |
| 250  | 275 | Same as above only a little more massive less blue sodalite and so pale brown in colour as there is still much pale brown mineral. Pyro. at 274.<br>RA: 1½x N                                                                                                                                 | 0-161      | 250  | 275 | 25    | 0.22                                          |
| 275  | 300 | Massive lim., less sodalite and pale brown mineral more than 20% acc. A little pyro. at 281.5, 284.5, 299.5.<br>RA: 1½x N                                                                                                                                                                     | 0-162      | 275  | 300 | 25    | 0.41                                          |
| 300  | 325 | 300-317.5: Lim. as above. A little pyro. at 301.5 & 317.<br>317.5-322.5: Medium grained ijolite brecciated with calcite & biotite. Betafite associated with the calcite in the seams,                                                                                                         | 0-163      | 300  | 325 | 25    | 0.14                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 28 Direction: 240° Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                       | Sample No: | From | To  | Width | Assays                                |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|---------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                           |            |      |     |       | Cb <sub>2</sub> O <sub>5</sub><br>g/5 |
|      |     | yellowish-orange and rosy-pink in colour?<br>322.5-325: Massive white lim., less than 5% acc.<br>RA: 1½x N                                                                                                                                                                                                |            |      |     |       |                                       |
| 325  | 350 | 325-336: Lim. as above.<br>336-350: White lim. less than 5% acc.<br>328.5-338.8: Brecciated ijolite with betafite at the contact.<br>336.2-338.8: Biotite replacement rock with many crystals of betafite at 336.2 at the contact for 3" and many straw coloured crystals in the biotite itself.<br>RA: N | 0-164      | 325  | 350 | 25    | 0.38                                  |
| 350  | 375 | Lim., pale blue 10-20% acc. slight lineation: 65°<br>Pyro. at 366.<br>RA: 2x N                                                                                                                                                                                                                            | 0-166      | 350  | 375 | 25    | 0.50                                  |
| 375  | 400 | Lim. as above, flesh coloured crystals, pyro. at 396.5.<br>386-388.3; 389.5-390.3: Ijolite brecciated with calcite and biotite.<br>RA: 1½x N                                                                                                                                                              | 0-167      | 375  | 400 | 25    | 0.23                                  |
| 400  | 425 | Massive lim., white coloured less than 10% acc., good pyro. thruout. At 407 many flesh to straw coloured crystals, grading from typical pyro. to almost white crystals.<br>RA: 1½x N                                                                                                                      | 0-168      | 400  | 425 | 25    | 0.37                                  |
| 425  | 450 | Massive white lim. less than 10% acc. Good pyro. Light brown colour apparently not very radioactive. Lim. is pitted and decomposed, specially from 440-450.<br>RA: 1½x N                                                                                                                                  | 0-169      | 425  | 450 | 25    | 0.25                                  |
| 450  | 475 | Same as above to 473.5 chalky white, pitted, barren, decomposed lim. no biotite and magnetite                                                                                                                                                                                                             | 0-170      | 450  | 475 | 25    | 0.022                                 |

COULEE & HEADWAY OKA PROPERTY

Hole 28

Direction: 240°

Location: Lot 195

Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | some flesh coloured crystals?<br>473.5-475: More typical lim.<br>with minor biotite and magnetite.<br>Some brown vitreous crystals in<br>this section, and minor pyro.<br>RA: 1½x N                                                                                          |            |      |     |       |                                               |
| 475  | 500 | 475-480.7: Massive white lim.,<br>less than 5% acc. Good pyro. reddish<br>brown to straw coloured.<br>480.7-500: Mostly ijolite, greenish<br>black in colour, brecciated with<br>seams of calcite and biotite<br>very well biotitized.<br>488.6: Good betafite.<br>RA: 1½x N | 0-171      | 475  | 500 | 25    | 0.23                                          |
| 500  | 525 | Lim: 508.9-509.2; 510-511.<br>Mostly ijolite med.-gr. less bio-<br>tite, some betafite in seams of<br>lim. at the contact with the<br>ijolite at 501; 510-511 (Lim.);<br>514; 516.5; 519 and 523 in<br>yellowish-orange crystals.<br>RA: 1½x N                               | 0-172      | 500  | 525 | 25    | 0.17                                          |
| 525  | 550 | Same as above, little pyro. at<br>533 in lim. at the contact.<br>526.7-528; 531.5-532: Biotite<br>replacement rock.<br>RA: 1½x N                                                                                                                                             | 0-173      | 525  | 550 | 25    | 0.15                                          |
| 550  | 575 | Typical brecciated microijolite.<br>551: 3" white lim.<br>557: 2" white lim.<br>566.3-567.3; 570.6-575: Massive lim.<br>less than 10% acc.<br>Good pyro. in the lim. and at the<br>contact between the ijolite and seams<br>of biotite and calcite.<br>RA: 1½x N             | 0-177      | 550  | 579 | 29    | 0.23                                          |
| 575  | 579 | Ijolite as above, with lim. from<br>575-576.1.<br>Pyro. in the lim.<br>RA: 1½x N<br><br>579: END OF HOLE.                                                                                                                                                                    |            |      |     |       |                                               |

COULEE & HEADWAY OKA PROPERTY.Hole 29 Direction: 245°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample No: | From | To   | Width | Assays                       |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |      |      |       | $\text{Ca}_2\text{O}_5$<br>% |
| 0    | 39  | Casing.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |      |      |       |                              |
| 39   | 50  | Massive, yellowish gray lim. with about 15% acc.<br>Dark red pyro. thruout.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                   | 0-183      | 39   | 57.4 | 18.4  | 0.23                         |
| 50   | 75  | 50-57.4: Same as above, but slightly altered pyro. thruout.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                                   |            |      |      |       |                              |
|      |     | 57.4-67: Magnetite-biotite-pyroxene-calcite-pyro. rock. Very radioactive and very rich in pyro.<br>62.1-62.7: Ground core.<br>62.7-63.5: Core missing.<br>RA: 3x N                                                                                                                                                                                                                                                                                         | 0-184      | 57.4 | 67   | 9.6   | 1.07                         |
|      |     | 67-75: Massive bluish lim. with 15% acc. and fair pyro. throughout.<br>RA: N                                                                                                                                                                                                                                                                                                                                                                               | 0-185      | 67   | 100  | 33    | 0.40                         |
| 75   | 100 | Same as above but altered and pitted from 89.5-100.<br>92.5-94.5; 95-96.6; 98-100: Core missing. Fair pyro. throughout.<br>RA: N                                                                                                                                                                                                                                                                                                                           |            |      |      |       |                              |
| 100  | 125 | 100-115.5: Same as above, badly altered and pitted. The lim. is much broken up.<br>6.5' core missing: 102.9-104.6; 106.1-107.2; 108.1-109.3; 110.9-111.9; 115.5-115.<br>About 15% acc. Pyro. throughout.<br>115.5-125: Ijolite, somewhat brecciated, fair biotite & some calcite present. Good pyro. at 120.7. Some scarlet red silicate mineral present.<br>124.5-125: Magnetite-biotite-pyroxene calcite pyro. rock, very well mineralized.<br>RA: 1½x N | 0-186      | 100  | 125  | 25    | 0.31                         |
| 125  | 150 | 125-126: Magnetite-biotite-pyroxene-calcite-pyro. and betafite.<br>126-150: Massive yellowish blue lim. Considerable brownish mine-                                                                                                                                                                                                                                                                                                                        | 0-191      | 125  | 150  | 25    | 0.17                         |

COULEE & HEADWAY OKA PROPERTY

Hole 29

Direction: 245°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays                              |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                              |            |      |     |       | cb <sub>2</sub> o <sub>5</sub><br>% |
|      |     | ral monticellite? Also some blue sodalite? especially from 145-150. Good pyro. light brown in association with green pyroxene in narrow seams at 138 and 139.<br>RA: 1½x N                                                                                                                                                                                   |            |      |     |       |                                     |
| 150  | 175 | Massive brownish blue lim. considerable brown mineral as well as considerable blue sodalite; more than 20% acc.<br>Some reddish brown crystals which look like pyro. but not typical could be garnet 174.<br>Pyro. in seams with pyroxene and biotite at 163.5.<br>153.5-155: Core missing.<br>170-171.5: Microfolite breccia.<br>RA: N                      | 0-192      | 150  | 175 | 25    | 0.10                                |
| 175  | 200 | 175-188: Some lim. as above little whiter in colour. Same brownish red crystals as above.<br>188-200: Med.-gr. ijolite brecciated with biotite and calcite. Very rich pyro., reddish brown at: 191.5-192.2. No RA.<br>Some pyro. in lim. light brown at: 177.6-178.5; 182.8-189.<br>RA: N                                                                    | 0-193      | 175  | 200 | 25    | 0.51                                |
| 200  | 225 | 200-204.8: Med.-gr. ijolite with calcite and biotite seams.<br>204.8-225: Massive lim. more than 20% acc.<br>Two minor ijolite inclusions at 206.5 and 207.8.<br>211-212.5: A little decomposed with broken core.<br>Considerable brownish mineral and blue sodalite.<br>A little pyro. 215.5 and 223. Some reddish black crystals, perovskite?<br>RA: 1½x N | 0-194      | 200  | 225 | 25    | 0.13                                |
| 225  | 250 | 225-226.5: Massive lim. with good pyro. at contact(226.4) associated with more pyroxene and biotite.                                                                                                                                                                                                                                                         | 0-195      | 225  | 250 | 25    | 0.34                                |



COULTEE & HEADWAY OKA PROPERTY

Hole 29      Direction: 245°      Location: Lot 195  
                  Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                      | Sample No: | From | To  | Width | Assays       |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|--------------|
|      |     |                                                                                                                                                                                                                                                                                                                                          |            |      |     |       | Co. 0<br>% 5 |
|      |     | brecciation.<br>778.8-793.5: Lim. as above, good pyro. throughout and specially at 782 in same association.<br>793.5-800: Light green med.-gr. ijolite a little more brecciation than above. Some pyro. at contact with seams of calcite and the ijolite.<br>RA: 1½x N                                                                   |            |      |     |       |              |
| 800  | 825 | 800-801.4: Med.-gr. ijolite as above.<br>801.4-825: Yellowish grey lim. 15% acc. Slight lineation at 58°. Ijolite: 802.5-802.8; 820.7-823. Some flesh coloured crystals in calcite seams of the ijolite. Good pyro. thruout lim. with a 4" section at 815 of rich pyro. in association with massive pyroxene and magnetite.<br>RA: 1½x N | 0-233      | 800  | 825 | 25    | 0.38         |
| 825  | 850 | Mostly grey lim. with white sections, more than 15% acc. Slight lineation at 72°. Good pyro. thruout in association with pyroxene and biotite. Also good pyro. in association with minor light green ijolite inclusions at 841.5-843; 844.9-847.<br>RA: 1½x N                                                                            | 0-234      | 825  | 850 | 25    | 0.35         |
| 850  | 875 | Same as above, 6" of ijolite at 851.3. Fair pyro. thruout. Little blue sodalite coming in now.<br>RA: 1½x N                                                                                                                                                                                                                              | 0-235      | 850  | 875 | 25    | 0.26         |
| 875  | 900 | Same as above.<br>889: 4" of ijolite.<br>RA: 1½x N                                                                                                                                                                                                                                                                                       | 0-236      | 875  | 900 | 25    | 0.15         |
| 900  | 925 | 900-920: Same as above.<br>900.8-903.2: Ijolite med.-gr. Good pyro. at 903. Fair fine pyro. thruout. 920-925: Light green ijolite, not typically brecciated but an intimate mixture of ijolite and calcite with some altered                                                                                                             | 0-238      | 900  | 925 | 25    | 0.22         |

COULEE & HEADWAY OKA PROPERTY

Hole 29

Direction: 245°

Location: Lot 195

Dip: 45°

| From | To | Log | Sample No: | From To | Width | Assays<br>Ob <sup>20</sup> / <sub>5</sub> |
|------|----|-----|------------|---------|-------|-------------------------------------------|
|------|----|-----|------------|---------|-------|-------------------------------------------|

226.5-232.3: Microijolite only  
slight brecciation.  
232-245: Yellowish grey lim.  
Lineation at 57°. Some brownish  
mineral, no sodalite. Good pyro.,  
light brown in colour in asso-  
ciation with pyroxene and biotite  
throughout lim.  
245-250: Calcite-pyroxene rock  
with little biotite. Rich choco-  
late brown pyro., in pyroxene and  
pyrite-rich section: 247.4-247.8.  
RA: 1½x N

|     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |     |     |    |      |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 250 | 275 | 250-267.2: Pale bluish lim. 15%<br>acc. Very good pyro. especially<br>in association with pyroxene &<br>biotite and at the contact with<br>the ijolite, chocolate and straw-<br>coloured.<br>257.5-258: Fine-gr. grey dyke,<br>calcite-biotite rock.<br>261.8-262.8: Pyroxene-biotite-cal-<br>cite rock.<br>267.2-275: Ijolite medium-gr.<br>well brecciated and biotitized<br>with seams of lim.<br>Good pyro. or betafite in seams<br>and in biotite-rich sections.<br>RA: 1½x N | 0-196 | 250 | 275 | 25 | 0.28 |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

|     |     |                                                                                                                                                                                                                                                         |       |     |     |    |      |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 275 | 300 | Med.-gr. brecciated ijolite,<br>light green in colour. Some pyro.<br>especially at contact between<br>ijolite and seams & sections rich<br>in biotite and lim. as at 284.4;<br>289.2; 299.2; Some altered nephe-<br>line and fenite xenoliths.<br>RA: N | 0-197 | 275 | 300 | 25 | 0.17 |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

|     |     |                                                                                                                                                                                                                                                            |       |     |     |    |      |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 300 | 325 | 300-307: Brecciated med.-gr.<br>ijolite, 20% white lim. Good pyro.<br>in seams and at contact between<br>calcite and biotite with the<br>ijolite.<br>307-325: Massive white lim. with<br>inclusions of ijolite and some<br>type of pyro. up to 312.3, gra- | 0-198 | 300 | 325 | 25 | 0.32 |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

COULLEE & HEADWAY OKA PROPERTY.

Hole 29 Direction: 245° Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                | Sample No: | From | To  | Width | Assays                  |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------|
|      |     |                                                                                                                                                                                                                                                                    |            |      |     |       | cb <sub>20</sub> 5<br>% |
|      |     | ding into straight lim. with fair straw-coloured pyro. in association with an increase in pyroxene and biotite.<br>RA: N                                                                                                                                           |            |      |     |       |                         |
| 325  | 350 | Typical lim., white colour, 15% acc. Straw coloured pyro. at 326. Light brown pyro. at 347. Ijolite at 347.2-349.<br>RA: 1½x N                                                                                                                                     | 0-202      | 325  | 350 | 25    | 0.44                    |
| 350  | 375 | Lim. as above pale blue colour, rich section of light brown betafite? or pyro. at 353-354 in association with rich pyroxene. Ijolite inclusions: 358.2-358.5, 359.5-361.5, 362.8-364.<br>RA: 1½x N                                                                 | 0-203      | 350  | 375 | 25    | 0.37                    |
| 375  | 400 | Mostly massive lim. as above, pale blue in colour, 20% acc. Microijolite: 379-380; 381.3-385.6, with some calcite. Dark brown pyro. at 378 and 380.5. Yellowish orange betafite at 384.2.<br>RA: 1½x N                                                             | 0-204      | 375  | 400 | 25    | 0.23                    |
| 400  | 425 | Lim. yellowish blue with considerable blue sodalite and pale brown mineral monticellite. Slight lineation at 51°. No visible pyro. Yellowish flesh-coloured crystals, at 421.<br>RA: N                                                                             | 0-205      | 400  | 425 | 25    | 0.09                    |
| 425  | 450 | Lim. bluish colour, less than 10% acc. at: 425-437.5. Slight lineation. 437.5-450: Massive pale blue lim. No black or dark acc., pitted and decomposed with a brown alteration material, some crystals look like flesh coloured to reddish pyro. 441.<br>RA: 1½x N | 0-206      | 425  | 450 | 25    | 0.10                    |
| 450  | 475 | Same as above only a little more decomposed grading from very white                                                                                                                                                                                                | 0-207      | 450  | 475 | 25    | Trace.                  |

COULEE & HEADWAY OKA PROPERTY

Hole 29      Direction: 245°      Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                           | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | to pale blue in colour.<br>Considerable number of reddish<br>resinous crystals, pyro? at 461.<br>Core missing: 473-475.<br>RA: 1½x N                                                                                                                                                                                                                                                                          |            |      |     |       |                                               |
| 475  | 500 | 475-495: Same as above, some blebs<br>of pyrite. Fair number of reddish<br>resinous crystals as above as well<br>some typical pyro.<br>Some black crystals with brown<br>streak perovskite? at 485.8 and<br>486.5.<br>Core missing from 476.5 to 478 and<br>494-495.<br>495-500: Massive pale blue lim. with<br>a mottled appearance, no brown al-<br>teration material and much less<br>pitted.<br>RA: 1½x N | 0-208      | 475  | 500 | 25    | N.D.                                          |
| 500  | 525 | Mostly massive blue lim. mottled<br>appearance, altered and pitted<br>but much less brown alteration<br>material, fine magnetite.<br>503-505: More brown alteration<br>material, some reddish resinous<br>crystals, pyro?<br>Core missing: 501.5-503; 514.6-<br>516; 517.5-519;<br>RA: N                                                                                                                      | 0-213      | 500  | 525 | 25    | N.D.                                          |
| 525  | 550 | 525-527.5: Same as above.<br>527.5-549: White massive lim.,<br>less than 5% acc. some altered<br>brown ( rare earths) material and<br>pitting as above but 50% less.<br>Some reddish resinous crystals?<br>Also more perovskite? at 542-<br>545.5.<br>549-550: Light green well bio-<br>titized brecciated ijolite.<br>Good pyro. in calcite and<br>biotite.<br>RA: N                                         | 0-214      | 525  | 550 | 25    | 0.018                                         |
| 550  | 575 | 550-573.3: Mostly very well brec-<br>ciated and biotitized ijolite,                                                                                                                                                                                                                                                                                                                                           | 0-215      | 550  | 575 | 25    | 0.58                                          |

COULEE & HEADWAY OKA PROPERTY.

Hole 29 Direction: 245° Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                    | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | probably 20% lim. Good pyro. in seams and sections of biotite and lim.<br>561-563: Very rich section, many light brown to chocolate brown crystals of pyro.<br>573.3-575: Massive white lim. 10% acc. fair fine pyro.<br>RA: 1 1/2 x N                                                                                                                                 |            |      |     |       |                                               |
| 575  | 600 | 575-589.8: Pale yellowish blue lim. very slight lineation, some light brown mineral monticellite? and blue sodalite, 10% acc. Fair amount of fine pyro.<br>598.8-600: Mostly very well brecciated and biotitized ijolite, light green in colour, 15% lim., good pyro. and betafite in seams and sections of biotite and calcite.<br>RA: 1 1/2 x N                      | 0-216      | 575  | 600 | 25    | 0.42                                          |
| 600  | 625 | Same as above, little less biotitization but still pretty good light brown pyro. in seams and sections of lim.<br>615.5-618: Mostly massive grey lim., 10% acc.<br>RA: 1 1/2 x N                                                                                                                                                                                       | 0-217      | 600  | 625 | 25    | 0.38                                          |
| 625  | 650 | 625-643: Same as above 10% lim. instead of 15%, less biotitization but good pyro. in seams and sections of calcite. Flesh coloured crystals at 636.2-637.5, resinous lustre pyro.<br>643-650: Lim., white 10% acc. Slight lineation at 54°. Good pyro. in association with streaks of pyroxene and biotite.<br>649-650: More than 20% acc. Good pyro.<br>RA: 1 1/2 x N | 0-218      | 625  | 650 | 25    | 0.30                                          |
| 650  | 675 | 650-655.5: Same as lim. at end of previous box. Good pyro.<br>655.5-675: Typical light green medium-gr. ijolite brecciated with calcite and biotite,                                                                                                                                                                                                                   | 0-225      | 650  | 675 | 25    | 0.35                                          |

COULEN & HEADWAY OKA PROPERTY

Hole 29      Direction: S45°      Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                                                                                                                    | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub> |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|------------------------------------------|
|      |     | more than 10% lim. No typical pyro. observed but some flesh-coloured crystals at 662. Yellowish orange crystals at 668.8 in biotite.<br>RA: N                                                                                                                                                                          |            |      |     |       |                                          |
| 675  | 700 | Bracciated ijolite as above more biotitization and more pyro. and betafite in association with seams and sections of biotite, calcite and pyroxene. Especially: 682-686.5; 696-697.5. Very good betafite at 689.<br>RA: 1½x N                                                                                          | 0-226      | 675  | 700 | 25    | 0.28                                     |
| 700  | 725 | 700-715: Same as above, good light brown pyro,<br>Lia: 704-707.<br>715-725: Same light green ijolite less bracciated and biotitized. Hence less calcite and less pyro. Fair pyro. or betafite at 720.5. Also numerous flesh to pink-coloured crystals.<br>RA: N                                                        | 0-227      | 700  | 725 | 25    | 0.28                                     |
| 725  | 750 | 725-741.2: Same as above, 20% lim. good biotitization, good pyro.<br>741.2-750: Grading from a white lim., dirty grey more than 20% acc. Slight lineation at 53°. Good fine light brown (pyro.) and chocolate colour thruout.<br>737.5: Many flesh to pink-coloured crystals and considerable pyrrhotite.<br>RA: 1½x N | 0-228      | 725  | 750 | 25    | 0.27                                     |
| 750  | 775 | Lim. white to dirty grey in streaks and sections, 15% acc. Good pyro. associated with pyroxene, biotite and magnetite. Slight lineation at 54°. 773.5-775: Microijolite, only very slight fracturing.<br>RA: 2x N                                                                                                      | 0-229      | 750  | 775 | 25    | 0.28                                     |
| 775  | 800 | 775-776.8: Light green micro to med.-gr. ijolite, only slight                                                                                                                                                                                                                                                          | 0-230      | 775  | 800 | 25    | 0.39                                     |



COULEE & HEADWAY OKA PROPERTY

Hole 29

Direction: 245°  
Dip: 45°

Location: Lot 195

| From | To   | Log                                                                                                                                                                                                                                                                           | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
|      |      | nepheline. Betafite at 923.5.<br>RA: 1½x N                                                                                                                                                                                                                                    |            |      |      |       |                                               |
| 925  | 950  | 925-934: Mostly light green ijolite intimately mixed with calcite pyroxene rock.<br>929-929.5: Lim.<br>931-932: Lim. Good pyro. especially in calcite.<br>934-950: Mostly massive light blue lim., minor ijolite inclusions.<br>945.5-946.3: Good pyro. thruout.<br>RA: 1½x N | 0-239      | 925  | 950  | 25    | 0.41                                          |
| 950  | 975  | Mostly light blue lim. slight lineation at 65°. Minor ijolite inclusions slightly brecciated at: 950-951; 953.5-955; 959-962.5. Good pyro. thruout but not as good as previous boxes.<br>RA: 1½x N                                                                            | 0-240      | 950  | 975  | 25    | 0.25                                          |
| 975  | 1000 | Light blue lim., a couple of very minor ijolite inclusions. Slight lineation at 62°. Fair pyro. thruout, specially at 978, 984, 990, 996.5.<br>RA: 1½x N                                                                                                                      | 0-241      | 975  | 1000 | 25    | 0.13                                          |
| 1000 | 1025 | Light blue med.-gr. lim. with lineation at 52° to 62°. About 10% acc. but with sections of almost pure lim. Some pyro. at 1019.8; 1021; 1024-1024.5; 1007.5; 1013.5.<br>RA: N                                                                                                 | 0-246      | 1000 | 1025 | 25    | 0.083                                         |
| 1025 | 1050 | Massive bluish lim. with about 15% accessory minerals. Well formed medium grains of pyro. thruout. (with black inclusions and resinous luster)<br>RA: 1½x N                                                                                                                   | 0-247      | 1025 | 1050 | 25    | 0.22                                          |
| 1050 | 1075 | Same type of lim. as above but with much less pyro.<br>Minor pyro. at: 1051.8-1053; 1068.3.<br>Unusual                                                                                                                                                                        | 0-248      | 1050 | 1075 | 25    | 0.11                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 29

Direction: 245°  
Dip: 45°

Location: Lot 195

| From | To   | Log                                                                                                                                                                                                                    | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
|      |      | Unusual high radioactivity in<br>some sections with no visible<br>pyro.<br>RA: 1½x N                                                                                                                                   |            |      |      |       |                                               |
| 1075 | 1100 | Massive lim. with less than 10%<br>acc. becoming yellowish at 1086<br>and from there almost pure cris-<br>talline, med. to coarse-grained.<br>Minor pyro: 1081-1081.5.<br>Ijolite inclusion at 1075.2-1076.3.<br>RA: N | 0-249      | 1075 | 1100 | 25    | 0.056                                         |
| 1100 | 1125 | White to light blue lim. with less<br>than 10% acc. Slight lineation at<br>52°. Minor pyro. at 1120-1121;<br>1112.2.<br>RA: 1½x N                                                                                      | 0-251      | 1100 | 1125 | 25    | 0.059                                         |
| 1125 | 1150 | Yellowish to light blue lim. with<br>lineation at 53°. 20% acc. mostly<br>pyroxene and biotite. Few specks of<br>pyro. at 1126.<br>RA: 1½x N                                                                           | 0-261      | 1125 | 1150 | 25    | 0.16                                          |
| 1150 | 1175 | White to light blue lim. with lin.<br>at 53°. 10-15% acc. Narrow ijolite<br>dyke at 1162.6-1163.3.<br>Minor pyro. thruout, especially in<br>last 5'. Ground core: 1163.3-1168.3.<br>RA: 1½x N                          | 0-256      | 1150 | 1175 | 25    | 0.18                                          |
| 1175 | 1200 | White to yellowish lim. with<br>faint lin. at 49°. About 20% acc.<br>Minor pyro. at 1175.5; 1182.2.<br>More abundant at 1196.5; 1197.7.<br>RA: 1½x N                                                                   | 0-257      | 1175 | 1200 | 25    | 0.13                                          |
| 1200 | 1225 | Mostly massive white lim. with<br>about 20% acc. Some magnetite<br>& soda pyroxene rich sections at<br>1210.8; 1221-1221.5; 1222.5-1224.5,<br>with good pyro. Fair pyro. thruout.<br>RA: 2½x N                         | 0-258      | 1200 | 1225 | 25    | 0.20                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 29      Direction: 245°      Location: lot 195  
Dip: 45°

| From | To   | Log                                                                                                                                                                                                                                                                                                                                      | Sample No: | From | To   | Width | Assays<br>Cb205<br>% |
|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|----------------------|
| 1225 | 1250 | Same as above with faint lin. at 62°. Only one pyroxene-rich section at 1248.8-1250. Coarse crystals of biotite & magnetite. Good pyro. thruout, especially at: 1225-1225.8; 1232.5-1233.3. RA: 1½x N                                                                                                                                    | 0-259      | 1225 | 1250 | 25    | 0.16                 |
| 1250 | 1275 | Mostly light blue massive lim. with 20% acc. Some flesh colour apatite? & magnetite from 1270-1273. Good pyro. at 1266.5 & minor thruout. Much pyroxene from 1254-1261. RA: 1½x N                                                                                                                                                        | 0-260      | 1250 | 1275 | 25    | 0.21                 |
| 1275 | 1300 | Massive white lim. with about 20% acc. Strongly radioactive from 1275-1278 but no visible columbium minerals. The radioactive could be caused by yellowish green anhedral crystals associated with magnetite & pyroxene. Minor pyro. Calcareous sand: 1291-1293. Burned bit and hole stopped at 1297. RA: 2x N<br><br>1297: End of hole. | 0-263      | 1275 | 1297 | 22    | 0.117                |

COULEE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 0    | 60  | Casing.                                                                                                                                                                                                                                                                                                                                                                                                          |            |      |     |       |                                               |
| 60   | 75  | 60-61: Typical magnetite-biotite-pyroxene rock with good chocolate brown pyro.<br>61-62: Mostly white lim. with light brown pyro.<br>62-63.3: Microijolite with a little biotite-pyroxene-calcite rock.<br>63.3-66.5: lim., 10% acc., good light brown pyro., 4" inclusion of fine-gr. light green dyke rock at 65.5.<br>66.5-72: Biotite-pyroxene-calcite rock.<br>72-75: Brecciated microijolite.<br>RA: 1½x N | 0-209      | 60   | 75  | 15    | 0.13                                          |
| 75   | 100 | 75-83.6: Mostly brecciated ijolite a few minor inclusions of biotite-pyroxene-rich sections.<br>83.6-100: White massive lim. 5% acc. in streaks.<br>Pyro: 83.8. No positive, visible pyro. elsewhere.<br>RA: 1½x N                                                                                                                                                                                               | 0-210      | 75   | 100 | 25    | 0.06                                          |
| 100  | 125 | Mostly brecciated ijolite. Med.-gr. light green, considerable altered nepheline. Not as much biotitization; a few sections of microijolite.<br>White massive lim.: 100-103.3; 106.3-107.5; 108.2-108.8; 109.5-113.5; 123.8-125.<br>No visible pyro.<br>RA: N                                                                                                                                                     | 0-211      | 100  | 125 | 25    | 0.03                                          |
| 125  | 150 | 125-150: Mostly pyroxene-calcite-biotite rock, varying in different proportions of each mineral.<br>The lim. is more intimately mixed with the other minerals rather than in seams; pale blue in colour; some fenite xenoliths.<br>125-127: White massive lim.<br>139.4-139.9: Blue lim. with many big brown crystals of pyro.<br>146: Little pyro.<br>RA: N                                                     | 0-212      | 125  | 150 | 25    | 0.105                                         |

COULEE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 150  | 175 | Same as above.<br>Lim.: 162.8-164.3; 171.3-174; fine pyro.<br>150.3: Big brown crystals of pyro.<br>Fair pyro. at 166.<br>RA: 1½x N                                                                                                                                                                                                              | 0-219      | 150  | 175 | 25    | 0.09                                          |
| 175  | 200 | 175-192: Same as above.<br>186-188.5: Massive grey lim. a little fine pyro.<br>189-189.6: Lim.<br>192-200: Ijolite only slightly brecciated mostly with biotite seams and very little calcite.<br>RA: N                                                                                                                                          | 0-220      | 175  | 200 | 25    | 0.09                                          |
| 200  | 225 | Mostly light green med-gr. ijolite with some microijolite not too well brecciated, only minor calcite seams. A little yellowish-orange betafite at 221.<br>RA: + N                                                                                                                                                                               | 0-221      | 200  | 225 | 25    | 0.15                                          |
| 225  | 250 | Lim., grading from white to grey depending on amount of acc. which exceed 10%. Slight lineation not too regular.<br>Pyro. at 230.8-229; .225.4-226.5: Ijolite.<br>RA: 1½x N                                                                                                                                                                      | 0-222      | 225  | 250 | 25    | 0.03                                          |
| 250  | 275 | 250-254: White lim. less than 10% acc. Slight lineation.<br>254-269: Pale greenish lim. due to about 25% pyroxene in varied size crystals at random in the lim. Some magnetite and a little biotite.<br>269-275: Lim., altered and fractured with rusty broken core. Fine pyro. at 273.5.<br>Some rusty coloured resinous crystals.<br>RA: 1½x N | 0-223      | 250  | 275 | 25    | Trace.                                        |
| 275  | 300 | 275-300: Massive lim. dirty grey colour; acc. in sections varying from 5% to 30%. Mostly pyroxene a little rusty & pitted.<br>Ijolite breccia: 296.8-297.4; 298-299.2.                                                                                                                                                                           | 0-224      | 275  | 300 | 25    | 0.04                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°

Location: Lot 195

Dip: 45°

| From | To | Log | Sample No; | From | To | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|----|-----|------------|------|----|-------|-----------------------------------------------|
|------|----|-----|------------|------|----|-------|-----------------------------------------------|

Little pyro. at 297.5.  
Some light brown crystals with  
indefinite rounded shape.  
RA: N

|     |     |                                               |       |     |     |    |      |
|-----|-----|-----------------------------------------------|-------|-----|-----|----|------|
| 300 | 325 | 300-305: Lim. as above a little<br>fine pyro. | 0-231 | 300 | 325 | 25 | 0.41 |
|-----|-----|-----------------------------------------------|-------|-----|-----|----|------|

305-309.5: Rusty, broken core;  
massive lim.  
309.5-325: Greenish massive lim.  
fairly rusty and altered; 15% acc.  
Numerous coarse, coloured, resi-  
nous columbium crystals.  
RA: 1½x N

|     |     |                                                                     |       |     |     |    |      |
|-----|-----|---------------------------------------------------------------------|-------|-----|-----|----|------|
| 325 | 350 | 325-330.5: Massive lim. rusty &<br>altered; core broken; some sand. | 0-232 | 325 | 350 | 25 | 0.13 |
|-----|-----|---------------------------------------------------------------------|-------|-----|-----|----|------|

Pyro. at 329.  
330.5-350: Massive white lim. less  
than 5% acc. Fair fine pyro.  
mostly light reddish brown in co-  
lour scattered thruout at random  
in association with the pyroxene  
& biotite which is also present  
at random.  
RA: 1½x N

|     |     |                                                                                  |       |     |     |    |      |
|-----|-----|----------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 350 | 375 | 350-375: Massive bluish grey lim.<br>more than 25% acc. at random in<br>the lim. | 0-237 | 350 | 375 | 25 | 0.13 |
|-----|-----|----------------------------------------------------------------------------------|-------|-----|-----|----|------|

Fair fine pyro. thruout.  
RA: 1½x N

|     |     |                                                |       |     |     |    |      |
|-----|-----|------------------------------------------------|-------|-----|-----|----|------|
| 375 | 400 | 375-377.5: Lim. Streaks of purple<br>fluorite? | 0-242 | 375 | 400 | 25 | 0.17 |
|-----|-----|------------------------------------------------|-------|-----|-----|----|------|

377.5-390.8: Dark, fine-gr. dyke,  
greyish green in colour and com-  
posed of fine pyroxene and bioti-  
te & calcite in coarser grains.  
390.8-400: White massive lim.  
Good non-radioactive pyro. in  
light brown to straw-coloured  
crystals.  
RA: N

|     |     |                           |       |     |     |    |      |
|-----|-----|---------------------------|-------|-----|-----|----|------|
| 400 | 425 | 400-402.3: Lim. as above. | 0-243 | 400 | 425 | 25 | 0.12 |
|-----|-----|---------------------------|-------|-----|-----|----|------|

402.3-405.8: Dark greyish green  
dyke as above.  
405.8-425: Massive lim. with 20%  
acc. Minor inclusions of light  
green brecciated ijolite.



COULEE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | Fair light brown pyro.<br>RA: N                                                                                                                                                                                                                                                                 |            |      |     |       |                                               |
| 425  | 450 | 425-426.5: Lim. as above, no visible pyro.<br>426.5-430: Microijolite with minor pyrite.<br>430-450: Massive bluish lim. with sections of massive biotite & pyroxene. Also minor inclusions of ijolite. No visible pyro.<br>RA: 1½x N                                                           | 0-244      | 425  | 450 | 25    | 0.02                                          |
| 450  | 475 | 450-471.8: Mostly brecciated microijolite considerable lim. & altered nepheline. Minor sections of blue lim. and two narrow, fine-gr., dark green dykes.<br>471.8-475: White massive lim. with 10% acc. A few crystals of fine pyro. in this last section. No visible pyro. elsewhere.<br>RA: N | 0-245      | 450  | 475 | 25    | 0.04                                          |
| 475  | 500 | 475-479.6: White lim. with pyroxene and coarse biotite crystals, less than 15% acc.<br>479.6-495: Pyroxene-calcite-biotite rock with minor brecciated ijolite inclusion at 489.5-491.<br>495-500: Massive white lim. with 5% acc.<br>RA: 1½x N                                                  |            |      |     |       |                                               |
| 500  | 525 | Light blue lim. with lin. at 65° and more than 20% acc.<br>522.3-523: Fine-gr. pyroxene-calcite rock.<br>Minor pyro. at 516.5; 521.5.<br>Fair pyro. at 523-524.5.<br>RA: 1½x N                                                                                                                  | 0-250      | 500  | 525 | 25    | 0.09                                          |
| 525  | 550 | Mostly bluish grey microaurtite (nepheline with some pyroxene and calcite).<br>Light blue lim.: 525.9-526.3; 529.3-530.1; 534.7-536; 541.7-544.8, more than 25% nepheline, pyroxene, plus some                                                                                                  | 0-252      | 525  | 550 | 25    | 0.24                                          |

COULNE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°  
Dip: 45°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                                                                                                               | Sample No: | From | To  | Width | Assays                              |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                   |            |      |     |       | Cb <sub>2</sub> O <sub>5</sub><br>% |
|      |     | iron sulphides & pyro.<br>545.5-546.8; 548.5-549.7: Straw<br>colored pyro?<br>The urtite & lim. are intimately<br>mixed and hard to separate.<br>Fine pyro. also at 525.5-526.2 &<br>throughout the lim. sections.<br>RA: 1 1/2 x N                                                                                                               |            |      |     |       |                                     |
| 550  | 575 | 550-560.5: Med.-gr. grey urtite.<br>560.5-569.7: Lim. with slight li-<br>neation at 70° with narrow ijolite<br>inclusions sometimes marking the<br>lineation.<br>569.7-575: Urtite, badly weathered<br>from 571.2-572.8.<br>Fair coarse mica phenocrysts from<br>573-574.5.<br>Altered nepheline at 574.8.<br>Fine pyro. in lim.<br>RA: 1 1/2 x N | 0-253      | 550  | 575 | 25    | 0.25                                |
| 575  | 600 | 575-582.2: Ijolite.<br>582.2-588.7: Biotite-calcite<br>pyroxene rock with few ijolite<br>inclusions.<br>588.7-597.5: Massive lim. with<br>less than 10% acc. pyro. thruout<br>but specially good from 596-596.5.<br>597.5-600: Biotite-pyroxene-calcite<br>rock with lim. inclusion from 598.3<br>to 598.9.<br>RA: N                              | 0-254      | 575  | 600 | 25    | 0.14                                |
| 600  | 625 | 600-602.5; 604.7-605.6: Biotite-<br>pyroxene-calcite rock.<br>The rest is massive white lim.,<br>med.-gr. with little acc.<br>Minor pyro. at 604-604.5; 606.<br>RA: N                                                                                                                                                                             | 0-255      | 600  | 625 | 25    | 0.03                                |
| 625  | 650 | White barren lim. 625-628.2;<br>635.5-636.8.<br>The rest is massive light green<br>microijolite slightly brecciated<br>& with red-altered nepheline<br>xenoliths. Narrow calcite in-<br>clusions.<br>RA: N                                                                                                                                        |            |      |     |       |                                     |

COULLEE & HEADWAY OKA PROPERTY

Hole 30    Direction: 60°    Location: Lot 195  
Dip: 45°

| From | To  | Log                                                                                                                                                                                                                         | Sample From To Width Assays<br>No: | Ch <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|
| 650  | 675 | Mostly green, fine to med.-gr. ijolite with altered nepheline xenoliths & calcite inclusions. 656.5-662: Grey, fine to med.-gr. lim. with more than 20% nepheline, biotite & pyroxene. 666-667: Fine-gr., green dyke. RA: N |                                    |                                     |
| 675  | 700 | Mostly brecciated ijolite with altered nepheline and over 20% calcite & biotite in seams parallel to core and also crossing it in every directions. The calcite & ijolite are intimately mixed. RA: N                       |                                    |                                     |
| 700  | 725 | Brecciated ijolite with about 15% calcite. Numerous nepheline xenoliths. 718.5-721.3: Green lamprophyre? dyke (medium-gr. phenocrysts of biotite-magnetite-calcite in a groundmass of pyroxene-calcite-nepheline.) RA: N    |                                    |                                     |
| 725  | 750 | Brecciated & altered ijolite with many calcite inclusions. 735.5-737.3: Lim. with more than 20% acc. including altered nepheline remnants. RA: N                                                                            |                                    |                                     |
| 750  | 775 | Brecciated & altered ijolite with more than 20% lim. & biotite. 759.5-760.5: Blue lim. with fine magnetite. 772.5-774.5: Pyroxene-biotite-calcite rock. RA: 1½ x N                                                          |                                    |                                     |
| 775  | 800 | Lim.: 775-776.2; 783-795.2. Light blue with 20% acc. including some pyrite & pyrrhotite and a few ijolite inclusions. 780-783: Very fine-gr. green dyke.                                                                    |                                    |                                     |

COULEE & HEADWAY OKA PROPERTY

Hole 30

Direction: 60°  
Dip: 45°

Location: Lot 195

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| From | To | Log | Sample No: | From | To | Width | Assays |
|------|----|-----|------------|------|----|-------|--------|
|------|----|-----|------------|------|----|-------|--------|

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The rest is fine to med-gr. pyroxene-calcite-biotite rock with medium to coarse phenocrysts of biotite & pyroxene.

RA: N

|     |     |                                                                                                                 |       |     |     |    |      |
|-----|-----|-----------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 800 | 825 | 800-819.5: Mostly light blue lim. with more than 20% acc. including altered nepheline remnants from 818 to 819. | 0-262 | 800 | 825 | 25 | 0.16 |
|-----|-----|-----------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

The acc. are mainly biotite & soda pyroxene.

Fine pyro. throughout especially at: 802.5; 809.5; 816.

819.5-825: Calcite-pyroxene-biotite rock.

RA: 1½x N

|     |     |                                                                                                                     |  |  |  |  |  |
|-----|-----|---------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| 825 | 850 | 825-831.5: Calcite-pyroxene-biotite rock.                                                                           |  |  |  |  |  |
|     |     | 831.5-846.5: Ijolite, somewhat brecciated and with about 20% calcite & also some biotite & pyrite. No visible pyro. |  |  |  |  |  |
|     |     | 846.5: End of hole.                                                                                                 |  |  |  |  |  |

RA: N

COULEE & HEADWAY OKA PROPERTY

|           |                              |                   |
|-----------|------------------------------|-------------------|
| Hole 31 A | Direction: 230° 30' (246° M) | Location: Lot 195 |
| 31 B      | 230° 30' (246° M)            |                   |
| 31 A      | Dip: 40°                     |                   |
| 31 B      | Dip: 60°                     |                   |

| From | To | Log | Sample From No: | To Width Assays    |
|------|----|-----|-----------------|--------------------|
|      |    |     |                 | Cb <sub>20</sub> 5 |

Two holes were started from the same set up and going in the same direction.

31-A

The first one was collared at 40°. Although we were anticipating heavy overburden, we had to choose that angle because the trappists refused us permission to set up in a clover field and we had to collar about 500' N.E. of where we expected to intersect the continuation of an ore zone outlined by holes 24-26, & 27-30 drilled to the south. The hole flattened badly, the dip being 32° at 200'. Despite that & the fact that it was drilled down the slope, it was nevertheless carried on but finally abandoned at 545' when still drilling in overburden or in badly weathered decomposed, non-coring limestone?

545'  
- 370'  
-----  
175' decomposed limestone.

31-B

The second hole was drilled at 60°. It went through the overburden and into decomposed lim. at approximately 270'. The first attempt to get core was made at 470'.

|     |     |                                                                                                                                     |       |     |     |    |      |
|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 470 | 490 | 470-475: Only 10 small pieces: less than 1" of badly altered lim.                                                                   | 0-413 | 475 | 490 | 15 | 0.46 |
|     |     | 475-480: About 8" badly altered, rusty, pitted lim. with little acc., some pyro.                                                    |       |     |     |    |      |
|     |     | 480-490: About 2' of core with 2 good pieces 6" long of not too altered white lim. with little acc. and pyro. in resinous crystals. |       |     |     |    |      |
|     |     | RA: N                                                                                                                               |       |     |     |    |      |

From 490, continued drilling using mud and bull-nosed bit. No sample taken until 642.  
642-650: .8' core badly altered lim. with fair biotite.

COULKE & HEADWAY OKA PROPERTY

Hole 31 A Direction: 230° 30' (246° M)      Location: Lot 195  
 31 B                      230° 30' (246° M)  
 31 A Dip: 40°  
 31 B Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | 650-659: 3' of broken core; massive white lim. with about 20% acc., mostly biotite.<br>659-662: .7' of core.<br>662-665: Solid core: 20-25% acc. including much pyroxene from 664-665.<br>665-672: 3' of core much less acc. and fair reddish brown pyro.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0-414      | 650  | 672 | 22    | 0.05                                          |
| 674  | 689 | 674-676: Ground core: Unctuous soft green kaolin of clay with decomposed lim.<br>676-681: 2½' of core; massive white lim. not too altered with about 15% acc. A few specks of pyro.<br>681-684: 1½' of ground core; unctuous soft green kaolin of clay with lim.<br>684-689: 4' of core. Mostly badly altered greenish decomposed lim. with kaolin? more solid almost pure lim. in last foot.<br>RA: 1½x N in 665-672 section and 676-681 section.<br>The rest is normal.<br><br>681-850: Still drilling in decomposed lim. using mud & bull-nosed bit.<br><br>850-856: 2½' of core: First half is badly weathered & soft. This is followed by 3" of biotite-magnetite-rich lim.<br>The rest is massive white lim. This section is highly radioactive and contains numerous reddish brown crystals.<br>856-862: 2' of much broken, ground core; very altered lim.<br>862-870: 1½' of much altered unctuous lim.<br>870-876: 1½' of massive white lim. altered & pitted with little acc., some reddish brown pyro? crystals. | 0-415      | 674  | 689 | 15    | 0.02                                          |
|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0-433      | 850  | 876 | 26    | 0.42                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 31 A Direction: 230° 30' (246° M) Location: Lot 195  
 31 B                    230° 30'  
 31 A Dip: 40°  
 31 B Dip: 60°

| From | To | Log | Sample No: | From | To | Width | Assays                              |
|------|----|-----|------------|------|----|-------|-------------------------------------|
|      |    |     |            |      |    |       | Ch <sub>2</sub> O <sub>5</sub><br>% |

876 914 Carried on with mud & bull nose  
a bit.

914-922: 2' of core. 9-434 914 942 28 0.09

922-932: 1.6' of core.

932-942: 11' of core.

Highly altered & broken core showing decomposed lim. with sections rich in biotite, normal radioactivity & no visible pyro.  
No piece bigger than 1".

942-950: 1/2' of core. 0-435 942 961 19 0.05

950-961: 2' of core.

Same as above except for 1' at the end of massive fairly fresh lim. with about 10% acc., mostly all magnetite. No visible pyro.

961-972: 11' of core. 0-436 961 984 23 0.03

972-984: 3' of core.

All broken & crushed except for the last 2' which show fairly good lim. with about 20%-30% acc., mostly biotite, some magnetite & also numerous reddish altered crystals. (probably iron oxides).

RA: N

984 996 3" of badly altered core.

1000-1008.9: Vermiculite-rich ground core; not much calcite present.

1002-1002.6; 1004.1-1006.7:

Core missing.

1008.9-1010: Massive altered lim. with about 10% acc.

RA: N

1013: END OF HOLE.

The following size and length of casing were used in the drilling of the hole:

Nx: Surface to 90'

Bx: Surface to 180'

COULEE & HEADWAY OKA PROPERTY

Hole 31 A Direction: 230° 30' (246° M) Location: Lot 195  
31 B 230° 30' (246° M)  
31 A Dip: 40°  
31 B Dip: 60°

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| From | To | Log | Sample From | To | Width | Assays             |
|------|----|-----|-------------|----|-------|--------------------|
|      |    |     | No:         |    |       | Ob <sup>20</sup> 5 |

---

Ax: Surface to 465'

Ex: Surface to 926'.

All the casing was removed except 270' of Ax.

An attempt was made to test radio-activity down the hole with a Geiger Probe. After experiencing several difficulties with the Geiger and some with the Probe, the project was abandoned as the readings obtained were unreliable.

COULEE & HEADWAY OKA PROPERTY

Hole 32

Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 55°

| From | To   | Log                                                                                                                                                                                                                             | Sample From No: | To Width   | Assays                  |
|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|-------------------------|
|      |      |                                                                                                                                                                                                                                 |                 |            | Ch <sup>20</sup> 5<br>% |
| 0    | 35.6 | Casing.                                                                                                                                                                                                                         |                 |            |                         |
| 35.6 | 50   | Ijolite brecciated with biotite & calcite. A few biotite-rich sections. Minor pyrite.<br>RA: N                                                                                                                                  |                 |            |                         |
| 50   | 75   | Mostly ijolite with minor biotite & calcite inclusions. Lamprophyre breccia sections not well defined and consisting mainly of biotite phenocrysts in green pyroxene-calcite groundmass at: 67-68; 68.5-70.8; 73.2-75.<br>RA: N |                 |            |                         |
| 75   | 100  | (Lamprophyre breccia): Biotite phenocrysts in finer-gr. pyroxene-calcite-biotite groundmass. Biotite-calcite rich sections with minor pyrite at: 77.7-81.5. Flesh coloured radioactive crystals at 80.5-81.5.<br>RA: 1 1/2 x N  |                 |            |                         |
| 100  | 125  | Same as above with more biotite inclusions & minor magnetite. 115.3-116.8: Massive white lim. 116.8-120: Med.-gr. altered ijolite.<br>RA: 1 1/2 x N                                                                             |                 |            |                         |
| 125  | 150  | Same as above but with much coarser biotite phenocrysts (up to 1") which gives a brecciated appearance to the rock.<br>RA: N                                                                                                    |                 |            |                         |
| 150  | 175  | Same as above but much smaller phenocrysts (few exceed 1/2"). The rock grades in colour from light blue to greenish. There are less biotite-calcite inclusions.<br>RA: N                                                        | 0-267           | 150 180 30 | 0.05                    |
| 175  | 200  | 175-180: Same as above. The rest is altered ijolite much brecciated with magnetite-biotite-                                                                                                                                     | 0-268           | 180 200 20 | 0.36                    |

COULEE & HEADWAY OKA PROPERTY

Hole 32

Direction: 227° ( 242° 30' M)  
Dip: 55°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                                                                     | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | calcite & showing good to rich radioactivity & mineralization in and about the brecciated portions. Rich pyro. with M <sub>2</sub> P-C-B. at 180.4-180.8; 183-183.5; 186.5-187.1; 194.5-194.8.<br>RA: 1 $\frac{1}{2}$ x N                               |            |      |     |       |                                               |
| 200  | 225 | Mostly lamprophyre breccia: Biotite phenocrysts in pyroxene-calcite green groundmass. 200.3-202: Rich pyro. in strongly radioactive pyroxene-magnetite-calcite rock. 224-225: White lim. with less than 5% acc. & fair pyro.<br>RA: 1 $\frac{1}{2}$ x N | 0-264      | 200  | 224 | 24    | 0.16                                          |
| 225  | 250 | Massive lim. in general with 15% acc. but with sections containing green fine-gr. ijolite blobs and inclusions well defined. Minor pyro. throughout.<br>RA: N                                                                                           | 0-265      | 224  | 250 | 26    | 0.29                                          |
| 250  | 275 | Mostly massive white lim. with less than 10% acc. Microijolite; 256.2-257.9; 258.7-262.8; Numerous blobs 250-252. Fair pyro. throughout, especially rich at 263.5-264.5; 270.5-272.5.<br>RA: N                                                          | 0-266      | 250  | 275 | 25    | 0.49                                          |
| 275  | 300 | Massive white to light blue lim. with about 10-15% acc. except where ijolite blobs are present. Good pyro. throughout, especially at 283; 287.4-290; 293-294.8; 297-300. 50% microijolite with some biotite.<br>RA: N                                   | 0-269      | 275  | 300 | 25    | 0.48                                          |
| 300  | 325 | Green microijolite: 300-303.8, slightly brecciated: 310-312.5; 313.0-316.4; brecciated from 313 to 314.1. 316.4-321.8: Mostly biotite-pyroxene-calcite rock showing med.-gr. crystals & also calcite                                                    | 0-270      | 300  | 325 | 25    | 0.29                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 32    direction: 227° (242° 30' M)    Location: Lot 195  
              Dip: 55°

| From | To  | Log                                                                                                                                                                                                                   | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | & ijolite inclusions. The rest is massive lim. with 20% acc. Ijolite inclusions with biotite and good pyro. at 306-309; Fine pyro. throughout.<br>RA: 1½x N                                                           |            |      |     |       |                                               |
| 25   | 350 | Massive yellowish to light blue lim. with more than 20% acc.<br>Urtite: 346.7-348.1; 349.3-350;. Good radioactive straw-coloured betafite at 333.4-333.7.<br>Fine pyro. at 325-330.<br>RA: 1½x N                      | 0-271      | 325  | 350 | 25    | 0.35                                          |
| 350  | 375 | Massive light blue lim. with more than 20% acc.<br>Urtite: 350-351; 351.8-352.6;. Minor dark red resinous looking pyro.<br>RA: 1½x N                                                                                  | 0-272      | 350  | 375 | 25    | 0.15                                          |
| 375  | 400 | Same as above with a little more blue (sodalite?) sections, slight lin. at 52° to core.<br>Minor fine pyro.<br>RA: N                                                                                                  | 0-273      | 375  | 400 | 25    | 0.30                                          |
| 400  | 425 | Same as above, more than 20% acc. Slightly altered & more massive. 424.1-425; Microijolite.<br>Minor fine pyro.<br>RA: N                                                                                              | 0-274      | 400  | 425 | 25    | 0.43                                          |
| 425  | 450 | Ijolite: 425-425.3.<br>Urtite: 428.2-432.5; light grey to reddish grey.<br>The rest is massive lim. slightly altered & with less acc.<br>Minor fine pyro. especially at 439.3; 441.8 and 449.3.<br>RA: 1½x N          | 0-275      | 425  | 450 | 25    | 0.32                                          |
| 450  | 475 | Massive coarser-gr. light blue (sodalite?) lim., slightly altered, 15% acc. Straw-colored to deep red med.-gr. radioactive resinous pyro. crystals throughout. Fair mineralization at 463-465; 473.5-475.<br>RA: 2x N | 0-276      | 450  | 475 | 25    | 0.11                                          |

COULLEE & HEADWAY OKA PROPERTY

Hole 32    Direction: 227° (242° 30' M)    Location: Lot 195  
Dip: 55°

| From | To  | Log                                                                                                                                                                                                                       | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 475  | 500 | Massive lim., less blue but more altered & pitted. About 10% acc. Fair medium to coarse grained resinous strongly radioactive pyro. crystals at: 475-478.5; Minor pyro. throughout, especially at 480-483.5.<br>RA: 2½x N | 0-277      | 475  | 500 | 25    | 0.11                                          |
| 500  | 525 | Massive light blue lim. with about 15% acc. Slightly altered from 500-505.5. Minor pyro.: 504-505.<br>RA: 1½xN                                                                                                            | 0-306      | 500  | 525 | 25    | 0.069                                         |
| 525  | 550 | Same as above with minor pyro. from 525-528.<br>RA: 1½x N                                                                                                                                                                 | 0-307      | 525  | 550 | 25    | 0.077                                         |
| 550  | 575 | Same as above, that is light blue lim. with about 15% acc. consisting of pyroxene, magnetite, blue sodalite.<br>RA: 1½x N                                                                                                 | 0-308      | 550  | 575 | 25    | 0.061                                         |
| 575  | 600 | Same as above with minor pyro. at: 589-590.<br>RA: 1½x N                                                                                                                                                                  | 0-309      | 575  | 600 | 25    | 0.078                                         |
| 600  | 625 | Same as above with 15% acc. some brown silicate minerals minor pyro. throughout, especially at 600-603; 620-625.<br>RA: 1½x N                                                                                             | 0-278      | 600  | 625 | 25    | 0.25                                          |
| 625  | 650 | Massive, white to greyish blue altered, pitted lim. with little acc. (including pyrite). Minor pyro.<br>RA: 1½x N                                                                                                         | 0-310      | 625  | 650 | 25    | 0.040                                         |
| 650  | 675 | Same as above but with much broken core. Minor pyro., especially in the last 5 feet.<br>RA: N                                                                                                                             | 0-279      | 650  | 687 | 37    | N.D.                                          |
| 675  | 700 | 675-687: Massive milky white barren lim. showing very little alteration. 687-700: Very light blue lim. with 15% acc. & microdolomite inclusions.                                                                          | 0-280      | 687  | 700 | 13    | 0.36                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 32      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 55°

| From | To | Log | Sample No: | From | To | Width | Assays                              |
|------|----|-----|------------|------|----|-------|-------------------------------------|
|      |    |     |            |      |    |       | Cb <sub>2</sub> O <sub>5</sub><br>% |

Good reddish brown fine to medium grained resinous non radioactive pyro. throughout.  
699.4-700: Microijolite.  
RA: N

|     |     |                                                                                                                                                                                                                                                                                    |       |     |     |    |      |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 700 | 725 | Mostly microijolite slightly brecciated with lim. & biotite. 17' of microijolite: 700-700.5; 702.8-704; 705-712.2; 715.2-720.6; 721.8-724.5. Good brecciation from 722-724.4. The rest is light blue massive lim. with 15% acc. Good pyro. in lim. & brecciated sections.<br>RA: N | 0-281 | 700 | 725 | 25 | 0.38 |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

|      |     |                                                                                                                                                                                                                                                        |       |     |     |    |      |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 725- | 750 | 725-727.2; 728.7-729.8; 735.3-737.5; 745-750: Lim. with about 30% microijolite inclusions. The rest is microijolite well brecciated (more than 25% lim.). Minor to fine pyro. throughout the lim. and the brecciated portions of the ijolite.<br>RA: N | 0-282 | 725 | 750 | 25 | 0.25 |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

|     |     |                                                                                                                                                                                                                  |       |     |     |    |      |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 750 | 775 | Massive white lim. with 15% acc. & several microijolite inclusions. Fair to good pyro. throughout. 750-751.5: Microijolite well brecciated with calcite and biotite. 766.6-768.1: Microijolite.<br>RA: 1 1/2 x N | 0-283 | 750 | 775 | 25 | 0.30 |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

|     |     |                                                                                                                                                                                                                                                                                |       |     |     |    |      |
|-----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 775 | 800 | Microijolite: 777.2-778.8; 788.8-790.5. Brecciated microijolite: 778.8-786; 792.4-793.1. The rest is white lim. with faint lin. at 51° to core. Good pyro. almost throughout the lim. & very rich from 789.6-800 where it is associated with soda pyroxene & biotite.<br>RA: N | 0-284 | 775 | 800 | 25 | 0.35 |
|-----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

COULEE & HEADWAY OKA PROPERTY.

Hole 32 Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 55°

| From | To  | Log                                                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 800  | 825 | Massive white lim. with 15% acc. and few microijolite inclusions at: 800-803.5; 806.4-811.8; 818.2-820; 823-825.<br>Very rich medium to coarse pyro. from 800 to 800.6 and in the lim. up to 823.<br>The rest is microijolite.<br>RA: 1½x N                                     | 0-285      | 800  | 825 | 25    | 0.54                                          |
| 825  | 850 | Massive lim. with 10-15% acc. at: 825-827.5; 831-836.6; 839-841.5.<br>Fair to good pyro. throughout. 846.7-848.4: About 50-50 ijolite & calcite with good pyro.<br>The rest is microijolite slightly brecciated.<br>RA: N                                                       | 0-286      | 825  | 850 | 25    | 0.33                                          |
| 850  | 875 | Mostly all microijolite with few minor calcite inclusions, at: 874.1-874.6 rich in straw-coloured very radioactive crystals.<br>861.8-863.5; 870-873: Lim. with less than 20% acc. showing in places a lineation at 42° to core.<br>Fair pyro. throughout the lim.<br>RA: 1½x N | 0-287      | 850  | 875 | 25    | 0.32                                          |
| 875  | 900 | Microijolite with minor calcite inclusions: 875-884.5; 886-886.8.<br>Some straw-colored disseminated crystals. The rest is med.-gr. white to light blue lim. with about 20% acc. including good green pyroxene. Fair to good pyro. throughout the lim.<br>RA: 1½x N             | 0-288      | 875  | 900 | 25    | 0.31                                          |
| 900  | 925 | Massive light blue lim. with 20% acc. Some fine pyro. throughout, especially at: 903.7; 905-907; 918.5-920.<br>Ground core: 906.7-907.2; 922.2-923.<br>RA: 1½x N                                                                                                                | 0-289      | 900  | 925 | 25    | 0.10                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 32      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 55°

| From | To   | Log                                                                                                                                                                                                                                                                                              | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
| 925  | 950  | Bluish lim. with more than 20% acc.<br>Fine disseminated pyro., reddish<br>brown & resinous looking.<br>Good pyro.: 942.4-943.5; 945-946.<br>RA: 1½x N                                                                                                                                           | 0-290      | 925  | 950  | 25    | 0.12                                          |
| 950  | 975  | 950-953.1; 955-958.2; 970-975: Massive<br>white to light blue lim. with less<br>than 15% acc.<br>Disseminated pyro. throughout with<br>good sections at: 962-963.3; 970-<br>970.9.<br>The rest is microijolite.<br>RA: 1½x N                                                                     | 0-291      | 950  | 975  | 25    | 0.24                                          |
| 975  | 1000 | Massive white lim. with 10-15% acc.<br>mostly elongated biotite & pyro-<br>xene crystals.<br>Microijolite: 992.5-993.1; 994.3-<br>995.9.<br>Minor pyro., some straw-colored<br>crystals. Faint lineation at 36°<br>to core.<br>RA: 1½x N                                                         | 0-292      | 975  | 1000 | 25    | 0.10                                          |
| 1000 | 1025 | Bluish lim. with 20% acc. & fair<br>lin. at 44° to core. Few micro-<br>ijolite inclusions.<br>Some pyro. throughout with good<br>med. to coarse resinous looking<br>from 1002.2-1005. Yellowish crys-<br>tals of apatite or niocalite at<br>1004.6.<br>Microijolite: 1000.8-1002.3.<br>RA: 1½x N | 0-293      | 1000 | 1025 | 25    | 0.25                                          |
| 1025 | 1050 | Bluish lim. with about 15% acc.<br>and faint lin. at 51°<br>Core missing: 1041.4-1042.5.<br>Minor pyro. throughout except<br>for richer sections at:<br>1036.7-1038.5 & 1041.<br>RA: 2x N                                                                                                        | 0-294      | 1025 | 1050 | 25    | 0.10                                          |
| 1050 | 1075 | Massive white lim. with 20% acc.<br>composed mainly of pyroxene &<br>biotite. More reddish brown pyro.<br>than in preceding box.                                                                                                                                                                 | 0-295      | 1050 | 1075 | 25    | 0.18                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 32 Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 55°

| From | To   | Log                                                                                                                                                                                                                   | Sample No: | From | To   | Width | Assays          |
|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------|
|      |      |                                                                                                                                                                                                                       |            |      |      |       | Cb 0.5<br>% 2 5 |
|      |      | Fair pyro. at: 1057.7-1058.3;<br>fine-gr. at 1066.5-1068.3; 1072.9-<br>1073.7.<br>Brecciated microijolite: 1063.6-1065.3;<br>1068.3-1071.3.<br>RA: 1½x N                                                              |            |      |      |       |                 |
| 1075 | 1100 | Same as above with a few micro-<br>ijolite inclusions at: 1078.4-1079;<br>1081.9-1082.5.<br>Faint lin. at 47° to core.<br>Reddish brown resinous pyro.<br>throughout, especially good from<br>1080-1100.<br>RA: 1½x N | 0-296      | 1075 | 1100 | 25    | 0.41            |
| 1100 | 1125 | White to bluish lim. showing a good<br>lin. at 43° to core.<br>20% acc., the biotite & pyroxene<br>crystals being elongated parallel<br>to the lin.<br>Fair to good pyro. throughout.<br>RA: 1½x N                    | 0-297      | 1100 | 1125 | 25    | 0.22            |
| 1125 | 1150 | Same as above but with a less<br>defined lin. Fair reddish brown<br>resinous pyro. throughout.<br>1031.1-1031.8: Altered microijolite.<br>RA: 1½x N                                                                   | 0-298      | 1125 | 1150 | 25    | 0.12            |
| 1150 | 1175 | Bluish lim. with lin. at 43° & 20%<br>acc. Minor to fair pyro. throughout.<br>RA: 1½x N                                                                                                                               | 0-299      | 1150 | 1175 | 25    | 0.15            |
| 1175 | 1200 | Massive white lim. with more than<br>20% acc. including minor pyrite.<br>Minor to fair pyro. throughout.<br>Ground core: 1191.2-1192.7.<br>RA: 1½x N                                                                  | 0-300      | 1175 | 1200 | 25    | 0.17            |
| 1200 | 1225 | Same as above.<br>Ijolite: 1221-1225; 1219.2-1219.7.<br>Fair pyro. throughout, even in<br>ijolite.<br>RA: 1½x N                                                                                                       | 0-301      | 1200 | 1225 | 25    | 0.33            |
| 1225 | 1250 | Same as above with fair to good pyro.<br>in medium-gr. resinous looking<br>crystals.                                                                                                                                  | 0-302      | 1225 | 1250 | 25    | 0.35            |

COULEE & HEADWAY OKA PROPERTY

Hole 32. Direction: 227° (242° 30' M) Location: lot 195  
Dip: 55°

| From | To   | Log                                                                                                                                                                                                                                                                                                                                                                                                                           | Sample No: | From   | To     | Width | Assays                              |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|-------------------------------------|
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                               |            |        |        |       | Ob <sub>2</sub> O <sub>5</sub><br>% |
|      |      | Microijolite: 1225-1226.9.<br>Good pyro.: 1234-1235; 1243.3-1244.5.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                              |            |        |        |       |                                     |
| 1250 | 1275 | Same as above with 2 narrow micro-ijolite inclusions. More pyro. than in preceding box. A few rich sections at 1260.6-1261.7; 1271.5 (with P.M.)<br>RA: 1½x N                                                                                                                                                                                                                                                                 | 0-303      | 1250   | 1275   | 25    | 0.38                                |
| 1275 | 1300 | Same as above from 1275 to 1293.7 with fair pyro. throughout.<br>1293.7-1300: Very rich pyro. & betafite in strongly radioactive (5x N) lim. with about 40% acc. including biotite, & minor magnetite.<br>1296.8-1297.6: Altered ijolite strongly radioactive.<br>RA: 2½x N                                                                                                                                                   | 0-304      | 1275   | 1303.7 | 28.7  | 0.81                                |
| 1300 | 1325 | 1300-1303.7: Massive lim. with 40% acc. Strongly radioactive, very rich pyro. Biotite is the more prominent acc. in medium-grains.<br>1303.7-1325: Microijolite slightly brecciated with biotite & minor calcite from 1307.5-1311.3.<br>Broken core; 1311.3-1312.6.<br>Light brown strongly radioactive beta? from 1310.5-1311.5.<br>Pyro. at 1223.8.<br>Many fine straw-colored minerals throughout the ijolite.<br>RA: 2x N | 0-305      | 1303.7 | 1325   | 21.3  | 0.18                                |
| 1325 | 1350 | Massive mottled lim. with 20% acc. slightly altered in places. No visible pyro.<br>1349.1-1350: Microijolite.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                    | 0-311      | 1325   | 1350   | 25    | 0.028                               |
| 1350 | 1375 | 1350-1360: Massive white lim. with less than 10% acc. except for a few ijolite inclusions.<br>1360-1375: Microijolite.<br>No visible pyro.<br>RA: N                                                                                                                                                                                                                                                                           | 0-312      | 1350   | 1375   | 25    | 0.086                               |

COULEE & HEADWAY OKA PROPERTY

Hole 32      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 55°

| From | To   | Log                                                                                                                                                                                                                         | Sample No: | From | To   | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|-----------------------------------------------|
| 1375 | 1400 | 1375-1393.3: Microirolite.<br>1393.3-1400: Mostly urtite.<br>No visible pyro.<br>RA: N                                                                                                                                      | 0-313      | 1375 | 1400 | 25    | 0.13                                          |
| 1400 | 1425 | 1400-1402.5: Urtite.<br>1402.5-1407.1; 1408-1408.8: White<br>lim. with 10% acc.<br>Fair fine pyro. from 1408-1407.1;<br>1408-1408.8, some throughout the lim.<br>The rest is microirolite slightly<br>altered.<br>RA: 1½x N | 0-314      | 1400 | 1425 | 25    | 0.13                                          |
| 1425 | 1450 | Microirolite.<br>1436.4-1437.4: Calcite with minor<br>pyrite. No visible pyro.<br>RA: N                                                                                                                                     | 0-315      | 1425 | 1450 | 25    | 0.20                                          |
| 1450 | 1475 | Mostly microirolite with a few urtite<br>sections.<br>RA: N                                                                                                                                                                 |            |      |      |       |                                               |
| 1475 | 1500 | Mostly microirolite with a few<br>urtite sections from 1475-1477 and<br>from 1494.5-1500.<br>1477-1479.1: Massive fine-gr. lim.<br>with less than 10% acc.<br>RA: 1½x N                                                     |            |      |      |       |                                               |
| 1500 | 1525 | 1500-1502.1: Urtite.<br>1502.1-1525: Massive lim. with few<br>microirolite inclusions and 20% acc.<br>Minor pyro. throughout the lim.<br>RA: 1½x N                                                                          | 0-316      | 1500 | 1525 | 25    | 0.30                                          |
| 1525 | 1550 | Microirolite with few minor urtite<br>sections.<br>RA: 1½x N                                                                                                                                                                |            |      |      |       |                                               |
|      |      | 1543.5: END OF HOLE.                                                                                                                                                                                                        |            |      |      |       |                                               |



COULEE & HEADWAY OKA PROPERTY

Hole 33    Direction: 226° (241° 30' M)    Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                  | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 0    | 25  | 0-13.3: Overburden. (16' of casing)<br>13.3-25: Massive bluish lim. with<br>about 20% acc. No visible pyro.<br>RA: N                                                                                                                                                                                                                                                                 | 0-317      | 13.3 | 500 | 36.7  | 0.21                                          |
| 25   | 50  | 25-34.5: Same as above.<br>34.5-45.6: Pyroxene-calcite-rock;<br>fine to med.-gr. with biotite and<br>calcite inclusions.<br>45.6-47.5: Massive bluish lim. with<br>less than 10% acc.<br>47.5-50: Massive bluish lim. with<br>more than 30% acc., mostly biotite,<br>pyroxene, minor pyrite & straw co-<br>lored crystals.<br>RA: 1½x N                                              |            |      |     |       |                                               |
| 50   | 75  | The rock is composed of pyroxene<br>with minor calcite & may be nephe-<br>line at 50-51.6; 61-63.5.<br>The rest is massive greyish lim.<br>with 10-15% acc.<br>Disseminated resinous dark red pyro.<br>with good sections associated with<br>pyroxene at 64-65 & 73.8-74.5.<br>Minor apatite.<br>RA: 1½x N                                                                           | 0-318      | 50   | 75  | 25    | 0.17                                          |
| 75   | 100 | 75-81.9 & 83-85.7: Light green<br>pyroxene-calcite rock with med.-gr.<br>magnetite phenocrysts & magnetite-<br>calcite inclusions.<br>95-98.1: Same as above but coarser-gr.<br>& with more calcite in the ground-<br>mass and as phenocrysts. The rest is<br>massive white to bluish lim. with<br>20% acc., minor pyro. especially<br>at 89-90.<br>Perovskite at 89.5.<br>RA: 1½x N | 0-319      | 75   | 100 | 25    | 0.16                                          |
| 100  | 125 | 102-110: Medium to coarse pyroxene-<br>calcite rock with phenocrysts of<br>apatite, magnetite biotite.<br>The rest is massive white lim. with<br>10-15% acc. & minor pyro.<br>RA: 1½x N                                                                                                                                                                                              | 0-320      | 100  | 125 | 25    | 0.15                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 33    Direction: 226° (241° 30' M)    Location: Lot 193  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 125  | 150 | 125-127; 129.6-130.3; 134-140;<br>145.8-148.2; Massive white lim. with<br>less than 10% acc., pyro. throughout<br>the lim. in straw to resinous crys-<br>tals, specially in the last section.<br>140-141: Urtite.<br>The rest is med. to coarse pyroxene<br>calcite rock same as 102-110.<br>RA: N                                                          | 0-321      | 125  | 150 | 25    | 0.21                                          |
| 150  | 175 | Mostly coarse phenocrysts of M-B.-C.<br>in pyroxene-calcite rock.<br>169.8-171.5; 174.3-175: Massive white<br>lim. with 10% acc. & minor pyro.<br>171.5-174.3: Pyroxene-calcite-bio-<br>tite nepheline; about 25% of calcite.<br>RA: 1½x N                                                                                                                  | 0-322      | 150  | 175 | 25    | 0.14                                          |
| 175  | 200 | 180.9-181.5; 190.5-192.3: Ijolite.<br>The rest is a med. to coarse mottled<br>& brecciated looking rock composed<br>mainly of calcite, pyroxene apatite<br>and some magnetite, biotite & nephe-<br>line. The lim. makes about 40-50%<br>of the rock. Some resinous pyro.<br>strongly radioactive at 193.5 &<br>some fine in the lim. sections.<br>RA: 1½x N | 0-323      | 175  | 200 | 25    | 0.21                                          |
| 200  | 225 | 200-203: Urtite.<br>203-213.8: The above grades into a<br>breccia composed of pyroxene-calcite<br>nepheline groundmass with phenocrysts<br>of apatite magnetite, biotite nephe-<br>line?<br>213.8-225: Massive white lim. with<br>less than 10% acc. except for a few<br>nepheline & ijolite remnants.<br>No visible pyro.<br>RA: N                         | 0-324      | 200  | 225 | 25    | 0.18                                          |
| 225  | 250 | 225-227: Mottled pyroxene-calcite<br>rock with med.-gr. biotite pheno-<br>crysts. The rest is massive lim.<br>with more than 20% acc. in fine<br>to med. crystals & a few ijolite<br>inclusions, at 231.5-233; 237.<br>Some brown & green silicate minerals.                                                                                                | 0-325      | 225  | 250 | 25    | 0.14                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 33      Direction: 226° (241° 30' M)      Location: Lot 195  
                  Dip: 60°

| From | To  | Log                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | Minor pyro. specially at 240-241.<br>RA: 1½x N                                                                                                                                               |            |      |     |       |                                               |
| 250  | 275 | Massive, med. to coarse-gr., mottled, hard lim. bluish to greyish colored. More than 30% acc. including some blue sodalite & brown monticellite? crystals. Also fair magnetite.<br>RA: 1½x N | 0-326      | 250  | 275 | 25    | 0.34                                          |
| 275  | 300 | Same as above.<br>RA: 1½x N                                                                                                                                                                  | 0-330      | 275  | 300 | 25    | 0.31                                          |
| 300  | 325 | Same as above but less coarser and richer in magnetite which is the main acc. mineral. Some sections rich in dark brown translucent silicate mineral. (such as at 322.5)<br>RA: 1½x N        | 0-331      | 300  | 325 | 25    | 0.47                                          |
| 325  | 350 | 325-335: Same as above.<br>335-350: White lim. with % of acc. gradually decreasing to 10% at 350. A few specks of pyro.<br>RA: 1½x N                                                         | 0-332      | 325  | 350 | 25    | 0.23                                          |
| 350  | 375 | Massive, white to bluish grey lim. with 10-20% acc. Some sodalite & brown silicate at 371-374.<br>RA: 1½x N                                                                                  | 0-333      | 350  | 375 | 25    | 0.21                                          |
| 375  | 400 | Massive white lim. with about 10% acc. comprising mainly magnetite & some brown monticellite? Some black garnet.<br>RA: 1½x N                                                                | 0-334      | 375  | 400 | 25    | 0.060                                         |
| 400  | 425 | Massive white to bluish lim. with 15% acc., mainly blue sodalite in medium to coarse crystals, minor magnetite & brown silicate mineral. Minor pyro. at 404.<br>RA: 1½x N                    | 0-335      | 400  | 425 | 25    | 0.053                                         |
| 425  | 450 | Same as above from 425 to 436.6 with a few specks of pyro. The rest is mostly brecciated urtite slightly altered and with a microijolite phase at 437.5-438.5.<br>RA: N                      | 0-336      | 425  | 450 | 25    | 0.16                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 33      Direction: 226° (241° 30' M)  
Dip: 60°

Location: Lot 195

| From | To  | Log                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 450  | 475 | 450-450.7: Urtite.<br>450.7-475: Massive white to bluish<br>lim. with 15-20% acc.<br>Minor pyro. throughout.<br>RA: 1½x N                                                                                       | 0-337      | 450  | 475 | 25    | 0.12                                          |
| 475  | 500 | Same as above with rich strongly<br>radioactive pyro. at 497.4-497.7 &<br>fair pyro. at 480-481; 483.5-484.<br>RA: 1½x N                                                                                        | 0-338      | 475  | 500 | 25    | 0.16                                          |
| 500  | 525 | Same as above with a little more acc.<br>Some brown silicate.<br>Minor disseminated pyro.<br>RA: N                                                                                                              | 0-339      | 500  | 525 | 25    | 0.094                                         |
| 525  | 550 | Massive white lim. with about 10-15%<br>acc. Minor apatite, fine dissemina-<br>ted reddish brown & straw-colored<br>pyro.<br>RA: 1½x N                                                                          | 0-340      | 525  | 550 | 25    | 0.14                                          |
| 550  | 575 | Same as above but with a little<br>more acc. (Turquoise sodalite).<br>Fair to good med. to coarse resi-<br>nous non-radioactive pyro. at:<br>556-557; 558.3-559; 563.5-564.5;<br>565-566; 572.5-573.5.<br>RA: N | 0-341      | 550  | 575 | 25    | 0.35                                          |
| 575  | 600 | White lim. with 10-15% acc.<br>Some brown monticellite.<br>Fair pyro. at: 578.17; 588.4-589.2;<br>592.5-593.6; 598.5.<br>Good pyro. at 585.9-586.5.<br>RA: 1½x N                                                | 0-342      | 575  | 600 | 25    | 0.38                                          |
| 600  | 625 | Massive white to bluish lim. with<br>about 15% acc. disseminated pyro.<br>with fair pyro. at: 603.3-604.2;<br>611-612; 619.2-620; 621.5.<br>RA: 1½x N                                                           | 0-343      | 600  | 625 | 25    | 0.27                                          |
| 625  | 650 | Bluish lim. with 15-20% acc. and<br>faint lineation at 40° to core.<br>Minor fine resinous-looking<br>pyro. throughout.<br>RA: 1½x N                                                                            | 0-344      | 625  | 650 | 25    | 0.17                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 33 Direction: 226° (241° 30' M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                       | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 650  | 675 | 650-662; 664-667.6; 669.3-670.1;<br>673.4-675: Massive white lim. with<br>10-30% acc. Good pyro. at 660-661.2;<br>669.3-670.5 associated with soda<br>pyroxene, magnetite & biotite.<br>Some pyro. throughout the lim.<br>The rest is ijolite with about 15-<br>20% calcite.<br>RA: 1½x N | 0-345      | 650  | 675 | 25    | 0.31                                          |
| 675  | 700 | Massive white lim. with 10-20% acc.<br>(soda pyroxene-magnetite & biotite)<br>in fine to med. grains. Fair resinous<br>reddish brown med.-gr. pyro.<br>throughout.<br>RA: 1½x N                                                                                                           | 0-346      | 675  | 700 | 25    | 0.23                                          |
| 700  | 725 | 700-703: Brecciated slightly altered<br>ijolite.<br>703-725: White lim. with about 20% acc.<br>Slight lineation at 40° to core.<br>Minor pyro. at 724.3. Also some fine<br>specks throughout.<br>Broken core: 710-712.5.<br>RA: 1½x N                                                     | 0-347      | 700  | 725 | 25    | 0.095                                         |
| 725  | 750 | White lim. with 20% acc. & faint<br>lineation at 35-40° to core.<br>Minor pyro. in the last 5'.<br>RA: 1½x N                                                                                                                                                                              | 0-348      | 725  | 750 | 25    | 0.21                                          |
| 750  | 775 | White lim. with 20-25% acc. in fine<br>to med.-gr. Good lineation at 35° to<br>core mostly formed by elongated<br>pyroxene crystals.<br>Fair pyro. from 750-763 & good from<br>763-775.<br>766.5-767: Ijolite.<br>RA: 1½x N                                                               | 0-349      | 750  | 775 | 25    | 0.71                                          |
| 775  | 800 | White lim. with about 10-15% acc.<br>Faint lin. at 43°. Fair to good pyro. throughout.<br>775.9-777.5: Broken core.<br>793.1-796.1: Microijolite.<br>RA: N                                                                                                                                | 0-350      | 775  | 800 | 25    | 0.61                                          |
| 800  | 825 | Same as above with a little more<br>acc. Fair resinous fine to                                                                                                                                                                                                                            | 0-351      | 800  | 825 | 25    | 0.45                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 33 direction: 226° (241° 30' M) Location: Lot 195  
dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | med.-gr. pyro.<br>Lineation at 45°.<br>821-822: Brecciated ijolite rimmed<br>for 6" by biotite-calcite and a few<br>ijolite inclusions.<br>RA: N                                                                                                                                                                                                                                                                                                                                 |            |      |     |       |                                               |
| 25   | 850 | White lim. with 15-20% acc.<br>Good lin. at 41° (828') to 58° (846')<br>to core.<br>Fair pyro. throughout in fine to<br>med.-gr.<br>RA: N                                                                                                                                                                                                                                                                                                                                        | 0-352      | 825  | 850 | 25    | 0.39                                          |
| 850  | 875 | 850-855.5: Same as above with lin.<br>at 71° to core.<br>855.5-858.7: Biotite replacement<br>rock 65% biotite.<br>The rest is calcite with minor<br>nepheline.<br>858.7-859.6: Lim.<br>866.6-867.7; 869.3-870.1; 871.5-872.5:<br>Lim. The rest is microijolite brecciated<br>from 862.5-863.1; 867.7-869.3;<br>870.3-871.2.<br>Fair pyro. in brecciated portions<br>in med.-gr., specially from 868-869.3.<br>Fair to good mostly fine-gr. pyro.<br>throughout the lim.<br>RA: N | 0-353      | 850  | 875 | 25    | 0.31                                          |
| 875  | 900 | 875-878; 879-881; Lim. with about<br>10-15% acc. Minor lin. at 50° to core.<br>The rest is mostly microijolite with<br>brecciated portions from 884-891;<br>893-894; 882.7-883.7.<br>Heavy biotite at 888-889.1.<br>Good pyro. in brecciated portions at:<br>886; 887; 888-888.5; 893-893.7.<br>Altered ijolite: 891.3-892.<br>Ijolite: 881.7-882.1.<br>Fair pyro. in lim.                                                                                                       | 0-354      | 875  | 900 | 25    | 0.26                                          |
| 900  | 925 | Mostly microijolite with a calcite<br>inclusion at 903.4-904.1.<br>The microijolite is well brecciated<br>from 902.1-908.5 with fair to good<br>fine to med.-gr. straw-colored pyro.<br>in the brecciated portion, espe-<br>cially at 904-906; 907-907.5.                                                                                                                                                                                                                        | 0-355      | 900  | 925 | 25    | 0.40                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 33 Direction: 226° (241° 30' M) Location: Lot 195  
Dip: 60°

| From | To | Log | Sample No: | From | To | Width | Assays  |
|------|----|-----|------------|------|----|-------|---------|
|      |    |     |            |      |    |       | Ob. 205 |
|      |    |     |            |      |    |       | %       |

Pyro. also at 915.6-916.2; 923.  
Pyrite, pyrrhotite, & red altered  
nepheline present.  
919-922.8: Mottled, altered, pitted,  
soft black rock showing fine to med.  
white grains of calcite filling  
vesicles & some soft bluish unctuous  
kaolin? grains in a groundmass of  
pyroxene-biotite etc...

RA: N

|     |     |                                                                                                                                                                                                                             |       |     |     |    |      |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 925 | 950 | Mostly microijolite with some altered nepheline & some fine red silicate crystals. Pyro. at 926.3-926.5 in brecciated portion.<br>926.9-928; 945-946.5: Massive lim. with about 15% acc. & some good fine to med.-gr. pyro. | 0-356 | 925 | 950 | 25 | 0.24 |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

RA: N

|     |     |                                                                                                                                                                                                                                                            |       |     |     |    |      |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|
| 950 | 975 | 950-951.3 & 974.2-975: Brecciated microijolite.<br>The rest is lim. with about 25% acc. in fine to med. grains with good lin. at 45° to core.<br>Some pyro. throughout, specially fair to good from 951-967 in fine to med. resinous reddish brown grains. | 0-357 | 950 | 975 | 25 | 0.48 |
|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----|------|

RA: 1½x N

|     |      |                                                                                                                                                                                                                                                                                                                                                                                        |       |     |      |      |      |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|------|------|------|
| 975 | 1000 | 975-977: Brecciated ijolite grading into lim.<br>977-992.5: White, yellowish & bluish lim. with 20% acc. & faint lin. at 55°. Brecciated ijolite inclusion from 989.6-990.6.<br>Fair pyro. throughout the lim.<br>992.5-993.2: Ijolite with med.-gr. brown silicate mineral & rich fine brown pyro. in strongly radioactive section. Some calcite.<br>993.2-1000: Barren microijolite. | 0-358 | 975 | 9937 | 18.7 | 0.50 |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|------|------|------|

RA: 1½x N

COULEE & HEADWAY OKA PROPERTY

Hole 33      Direction: 226°      (241° 30' M)      Location: Lot 195  
 Dip: 60°

| From | To   | Log                                                                                                                                                                                                                                                                                | Sample No: | From   | To     | Width | Assays                              |
|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|-------------------------------------|
|      |      |                                                                                                                                                                                                                                                                                    |            |        |        |       | Ch <sub>2</sub> O <sub>5</sub><br>% |
| 1000 | 1025 | 1000-1011: Microijolite.<br>1011-1023: Brecciated microijolite.<br>(Nepheline and altered nepheline in the breccias).<br>1023-1025: Microijolite.<br>RA: N                                                                                                                         | 0-359      | 993.7  | 1025   | 31.3  | 0.25                                |
| 1025 | 1050 | Mostly microijolite with some urtite facies. The rock is slightly altered in places.<br>Some biotite at: 1046-1047.<br>RA: N                                                                                                                                                       | 0-361      | 1025   | 1050   | 25    | 0.10                                |
| 1050 | 1075 | Mostly urtite with a narrow lamprophyre? dyke at 1051.3-1052 cutting it at 20°. The dyke is very fine-gr. on both borders but fine to med. in center.<br>At 1063.5-1065: Same type of dyke splits the core in two.<br>RA: N                                                        | 0-362      | 1050   | 1075   | 25    | 0.12                                |
| 1075 | 1100 | Mostly urtite with a few microijolite sections.<br>RA: N                                                                                                                                                                                                                           |            |        |        |       |                                     |
| 1100 | 1125 | 1100-1110: Urtite.<br>1110-1114.3: Ijolite.<br>1114.3-1116.7: Biotite replacement rock 50% biotite with calcite, pyroxene.<br>1116.7-1119.3: Microijolite.<br>1119.3-1120.3: Biotite replacement rock, same as above.<br>1120.3-1123: Microijolite.<br>1123-1125: Urtite.<br>RA: N |            |        |        |       |                                     |
| 1125 | 1150 | 1125-1128: Urtite.<br>1128-1135: Microijolite.<br>1135-1142.6: Urtite.<br>1142.6-1150: White lim. with about 20% acc. & lin. at 60°. RA: N                                                                                                                                         | 0-360      | 1142.5 | 1157.7 | 15.2  | 0.060                               |
| 1150 | 1175 | 1150-1157.5: Massive white lim. with about 15% acc.<br>Dark brown resinous pyro. at: 1154.5; 1157.<br>1157.5-1175: Microijolite with urtite                                                                                                                                        |            |        |        |       |                                     |

COULBE & HEADWAY OKA PROPERTY

Hole 33 Direction: 226° (241° 30' M) Location: Lot 195  
Dip: 60°

---

| From | To | Log | Sample From | To | Width | Assays                              |
|------|----|-----|-------------|----|-------|-------------------------------------|
|      |    |     | No:         |    |       | Cb <sub>2</sub> O <sub>5</sub><br>% |

---

section at: 1167.5-1170.

RA: 1½x N with 4x background at  
1154.5 & 1157.

1175 1200 1175-1189: Microijolite dark green.  
1189-1200: Urtite.  
RA: N

1200 1225 1200-1209: Urtite.  
1209-1216: Mostly microijobite.  
1216-1225: Urtite.  
RA: N

1225 1250 1225-1237.4: Urtite.  
RA: N

1237.4: END OF HOLE.

COULEE & HEADWAY OKA PROPERTY

Hole 34    Direction: 230° 30' (246°M)    Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                  | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 0    | 25  | 0-19: Overburden: Casing 25'.<br>19-25: Massive bluish lim. with about<br>20% acc. including minor magnetite &<br>pyrrhotite.<br>RA: N                                                                                                                                                                               | 0-363      | 19   | 50  | 31    | 0.18                                          |
| 25   | 50  | Massive, bluish, mottled lim. med. to<br>coarse-gr., about 30% acc. including<br>blue sodalite, some brown silicate.<br>Fair magnetite, minor apatite, some<br>black cubic crystals could be<br>perovskite.<br>RA: 1½x N                                                                                             |            |      |     |       |                                               |
| 50   | 75  | Same as above but with a little more<br>brown silicate.<br>55.7-57.1; 58-58.6: Broken core.<br>RA: 1½x N                                                                                                                                                                                                             | 0-364      | 50   | 75  | 25    | 0.22                                          |
| 75   | 100 | Same as above.<br>RA: N                                                                                                                                                                                                                                                                                              | 0-365      | 75   | 100 | 25    | 0.23                                          |
| 100  | 125 | Whiter with only 10-15% acc. in much<br>finer grains. Minor magnetite.<br>RA: N                                                                                                                                                                                                                                      | 0-366      | 100  | 125 | 25    | 0.091                                         |
| 125  | 150 | Same as above with about 10% or 15%<br>acc. Broken core from 132-134.<br>RA: N                                                                                                                                                                                                                                       | 0-367      | 125  | 150 | 25    | 0.043                                         |
| 150  | 175 | Same as above with about 15% acc.<br>173.8-174.2: Good brown med. to<br>coarse strongly radioactive pyro.<br>associated with biotite and soda<br>pyroxene. Minor pyro. at 173.4-175.<br>172.8-173.4: Ijolite with some<br>biotite.<br>RA: 1½x N                                                                      | 0-368      | 150  | 175 | 25    | 0.047                                         |
| 175  | 200 | 175-177.7: Massive lim. with 10% acc.<br>mostly pyrrhotite & biotite. Some<br>fine pyro. throughout.<br>177.7-200: Ijolite, slightly brec-<br>ciated & altered.<br>Some calcite & biotite inclusions.<br>Blue soft unctuous mineral at 186.7.<br>Minor straw-colored crystals.<br>Some pyrrhotite & pyrite.<br>RA: N | 0-369      | 175  | 200 | 25    | 0.18                                          |

COULEE & HEADWAY OKA PROPERTY.

Hole 34 Direction: 280° 30' (246° M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 200  | 225 | 200-203.2: Same ijolite as above.<br>203.2-225: Massive white lim. with about 20% acc. Fair fine to med.-gr. straw to reddish brown pyro. from 214 to 223.<br>Fair pyrrhotite: 212.7-213.4.<br>RA: N                                                                                                                                                                                                                                            | 0-370      | 200  | 225 | 25    | 0.40                                          |
| 225  | 250 | 225-232.7: Massive white lim. with 15% acc. Fair reddish brown radioactive pyro. at: 225-226.5; and from 229-229.8.<br>Ijolite at: 230.6-231.3.<br>Fine pyro. throughout.<br>232.7-236.5; 239.8-241.6; 242.4-244.2: Ijolite with some calcite, biotite, pyrrhotite specially along contacts. Good pyro. at: 239.8 along contact. The rest is massive white lim. with about 15% acc. Fine pyro. throughout, faint lineation at 33°.<br>RA: 1½x N | 0-371      | 225  | 250 | 25    | 0.34                                          |
| 250  | 275 | White to bluish lim. with faint lin. at 34° to core. About 20% acc. in fine to med. grains. Strongly radioactive dark brown & resinous pyro. at 252-253.<br>Fair fine pyro. at 255-260 & minor pyro. throughout.<br>RA: 1½x N                                                                                                                                                                                                                   | 0-372      | 250  | 275 | 25    | 0.18                                          |
| 275  | 300 | Bluish lim. with 15-20% acc. Faint lin. at 55°. Minor fine magnetite & minor pyrite.<br>RA: N                                                                                                                                                                                                                                                                                                                                                   | 0-373      | 275  | 300 | 25    | 0.14                                          |
| 300  | 325 | Massive, mottled bluish lim. with 30% acc. in med. to coarse grains including much magnetite, some brown silicate mineral.<br>Some med. grains of straw to light chocolate brown columbium? crystals specially at: 305.5; 308.5; 313; 321.5.<br>Minor pyrrhotite & pyrite.<br>RA: N                                                                                                                                                             | 0-374      | 300  | 325 | 25    | 0.33                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 34 Direction: 230° 30' (246° M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                              | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 325  | 350 | Massive white to bluish lim. with 20-25% acc. in finer grains than above, less magnetite. Minor pyro. & some chocolate brown crystals specially at 326.5-327.5.<br>RA: 1½x N                                                                                                                                                                                     | 0-375      | 325  | 350 | 25    | 0.16                                          |
| 350  | 375 | White to bluish lim. with about 15% acc. some straw-colored, med.-gr. & slightly radioactive betafite? throughout but specially at: 359-360; 361-361.5; 368-369.5; 370-371.<br>RA: 1½x N                                                                                                                                                                         | 0-376      | 350  | 375 | 25    | 0.22                                          |
| 375  | 400 | Massive white lim. with about 15% acc. except for a few narrow ijolite inclusions at 385.6 & 394.8. Fair pyrite at 396 & fair biotite at 386.5 & 390.7. Minor fine pyro.<br>RA: 1½x N                                                                                                                                                                            | 0-377      | 375  | 400 | 25    | 0.16                                          |
| 400  | 425 | Massive bluish lim. with about 20% acc. A few specks of pyro.<br>RA: N                                                                                                                                                                                                                                                                                           | 0-378      | 400  | 425 | 25    | 0.068                                         |
| 425  | 450 | White lim. with faint lin. at 65° and less than 15% acc. Pale straw-colored pyro. at 440-445. 443.8-444.9: Biotite replacement rock with pyroxene-calcite & some straw-colored pyro. 446.8-448.2: Brecciated ijolite.<br>RA: 1½x N                                                                                                                               | 0-379      | 425  | 450 | 25    | 0.15                                          |
| 450  | 475 | 450-467.1: Massive white lim. with less than 5% acc. from 450-462 but with increasing acc. after 462. Fair straw to resinous brown med. pyro. throughout the lim. except from 455-462 which is barren. 467.1-474.8: Biotite (50%) calcite-pyroxene-magnetite-pyrite replacement rock with good med.-gr strongly radioactive straw-colored betafite.<br>RA: 1½x N | 0-380      | 450  | 475 | 25    | 0.33                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 34    Direction: 230° 30' (246° M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 475  | 500 | Massive lim. with about 25% acc. & slight lin. at 30°. Much biotite in fine to med. grains as acc. Some radioactive straw to resinous brown beta throughout with fair amount at 478-479; 489; 487; 492. RA: 2x N                                   | 0-381      | 475  | 500 | 25    | 0.31                                          |
| 500  | 525 | Massive white lim. with about 15% acc., mostly biotite & magnetite in fine to med. grains; slight lin. at 50°. Fair resinous brown pyro. at 503-505. Good med.-gr. reddish brown pyro. associated with coarse magnetite & soda pyroxene. RA: 1½x N | 0-382      | 500  | 525 | 25    | 0.15                                          |
| 525  | 550 | Same as above but with about 20% acc. Some fine resinous brown pyro. from 525-537. Fair to good pyro. from 545-547. RA: 1½x N                                                                                                                      | 0-383      | 525  | 550 | 25    | 0.13                                          |
| 550  | 575 | Massive white lim. with about 15% acc. in fine to med. grains (biotite-magnetite-pyroxene). Ground core: 550-551; 554.5-557; 570-570.9; 571.9-572.3. Good grown pyro. throughout especially at: 563-564.5; 566-568 in fine to med. grains. RA: N   | 0-384      | 550  | 575 | 25    | 0.65                                          |
| 575  | 600 | Massive white lim. with less than 10% acc. except for a few places with more biotite magnetite & pyroxene in coarse grains. 588-589: Brecciated ijolite with straw-colored betafite. Some brown pyro. throughout in med. grains. RA: 1½x N         | 0-385      | 575  | 600 | 25    | 0.21                                          |
| 600  | 625 | Massive white lim. with about 15-20% acc. in fine to med. grains. Fair to good pyro. in fine to med. resinous brown crystals. Brecciated ijolite                                                                                                   | 0-386      | 600  | 625 | 25    | 0.36                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 34      Direction: 230° 30' (246° M)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                           | Sample No: | From  | To    | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-----------------------------------------------|
|      |     | Brecciated ijolite: 606.8-607.8.<br>RA: 1½x N                                                                                                                                                                                                                                                                                 |            |       |       |       |                                               |
| 625  | 650 | 625-643.5: White lim. with about 15% acc. and a slight lin. at 39° to core. Ground core: 630-634. Good fine to med.-gr. resinous brown pyro. throughout.<br>641.4-642: Undistinct straw-colored col. crystals.<br>643.7-650: Green microijolite with narrow calcite-biotite seams.<br>RA: N                                   | 0-387      | 625   | 643.5 | 18.5  | 0.56                                          |
| 650  | 675 | 663.2-664.8: Mostly pyroxene-calcite rock, fine-gr. with altered red nepheline and rich fine and straw-colored strongly radioactive anhedral betafite crystals. (8x N)<br>671-674.2: Brecciated ijolite showing same rich betafite as above. (3-12x N). Fair biotite & calcite. The rest is mostly microijolite.<br>RA: 3½x N | 0-388      | 643.5 | 675   | 31.5  | 0.71                                          |
| 675  | 700 | 677.4-679.5: Pyroxene-calcite rock with minor nepheline and rich fine strongly radioactive reddish brown betafite crystals. Some brecciated ijolite inclusions in the section. The rest is brecciated ijolite with some straw-colored crystals.<br>RA: 1½x 4N                                                                 | 0-389      | 675   | 710.4 | 35.4  | 0.42                                          |
| 700  | 725 | 700-710.4: Mostly brecciated ijolite with altered nepheline and some straw-colored betafite crystals at: 703.8; 706.5; 709.5.<br>710.4-725: Massive white lim. with about 10-15% fine-gr. acc. Fair fine reddish brown pyro. throughout.<br>RA: N                                                                             | 0-390      | 710.4 | 725   | 14.6  | 0.71                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 34    Direction: 230° 30' (246° M)    Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 725  | 750 | Mostly white lim. with less than 10% acc. in fine grains. Some fair fine straw to reddish brown pyro. throughout the lim.<br>743-745: Core missing.<br>735.5-736.8; 738.5-739.7; 742.2-743: Brecciated ijolite very soft in the last section. Faint lin. at 40° to core.<br>740.8: Nice small horiz. slip (1") of the ijolite.<br>RA: 1½x N | 0-391      | 725  | 750 | 25    | 0.34                                          |
| 750  | 775 | White lim. as above. Same fair fine mineralization as above but more of the reddish brown type.<br>762.4-764; 770-771: Brecciated ijolite.<br>RA: N                                                                                                                                                                                         | 0-392      | 750  | 775 | 25    | 0.24                                          |
| 775  | 800 | Massive white lim. with 15-20% acc. in fine grains mostly magnetite & biotite. Lin. at 37° to core.<br>Fair fine pyro. in lim. from 775-791.5, straw to reddish brown with rich section at 790.5-791.<br>776.8-779; 782-784.3: Brecciated ijolite.<br>RA: 1½x N                                                                             | 0-393      | 775  | 800 | 25    | 0.70                                          |
| 800  | 825 | Massive white lim. with about 20% acc. in fine to med.-grains.<br>Disseminated fine pyro. throughout; some apatite.<br>RA: 1½x N                                                                                                                                                                                                            | 0-395      | 800  | 825 | 25    | 1.49                                          |
| 825  | 850 | Same as above but with a little less acc. in some sections. Some fine to med. pyro. throughout with a few sections of good fine to med.-gr. resinous brown radioactive pyro. at 832.5; 836.5.<br>Ground core: 833-835.8; 846.6-847.4.<br>Core missing: 847.4-850.<br>RA: 1½x N                                                              | 0-396      | 825  | 850 | 25    | 0.78                                          |
| 850  | 875 | Fairly massive lim. with about 20% acc. in fine to coarse grains. Faint lin. at 35°. Resinous brown pyro.                                                                                                                                                                                                                                   | 0-397      | 850  | 875 | 25    | 0.35                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 34    Direction: 230° 30' (246° M)    Location: Lot 195  
Dip: 60°

| From | To   | Log                                                                                                                                                                                                                                           | Sample No: | From  | To    | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-----------------------------------------------|
|      |      | disseminated throughout but with fair concentrations at 850-862 and at 865-866.5.<br>RA: 1½x N                                                                                                                                                |            |       |       |       |                                               |
| 875  | 900  | 875-898.4: White lim. with about 20% acc. and faint lin. at 45° to core. Good fine to med-gr. reddish brown pyro. throughout.<br>894.2-894.6; 895-896; 898.4-900: Ijolite with some radioactive straw-colored betafite at 898.8.<br>RA: 1½x N | 0-398      | 875   | 898.4 | 23.4  | 0.37                                          |
| 900  | 925  | Mostly ijolite slightly brecciated in places.<br>900-901.1: Rich, fine strongly radioactive straw-colored betafite.<br>RA: N                                                                                                                  | 0-399      | 898.4 | 925   | 26.6  | 0.18                                          |
| 925  | 950  | Same as above.<br>940-941.8: Well brecciated and straw-colored betafite from 940.7 to 943. Betafite also at 933-933.5; 944-945, & some minor throughout.<br>RA: 1½x N                                                                         | 0-400      | 925   | 950   | 25    | 0.36                                          |
| 950  | 975  | 950-966.5: Urtite.(grayish)<br>966.5-975: Microijolite, dark green.<br>RA: N                                                                                                                                                                  | 0-401      | 950   | 975   | 25    | 0.085                                         |
| 975  | 1000 | Microijolite with a narrow urtite facies section.<br>RA: N                                                                                                                                                                                    | 0-402      | 975   | 1000  | 25    | 0.13                                          |
| 1000 | 1025 | Same as above.<br>RA: N                                                                                                                                                                                                                       | 0-403      | 1000  | 1025  | 25    | 0.15                                          |
| 1025 | 1050 | Same as above but with more urtite and some minor pyrite.<br>RA: N                                                                                                                                                                            | 0-404      | 1025  | 1050  | 25    | 0.093                                         |
| 1050 | 1075 | Same as above with urtite at 1053.5-1055 & 1074-1075.1.<br>1058.8-1061.6: White lim. with 15-20% acc. and lin. at 50° to core. Fair to good fine to med.-gr. reddish brown pyro.<br>RA: N                                                     | 0-405      | 1050  | 1075  | 25    | 0.11                                          |

COULEE & HEADWAY O.K.A. PROPERTY

Hole 34 Direction: 230° 30' (246° M) Location: Lot 195  
Dip: 60°

| From | To   | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample From No: | To Width Assays          |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------|
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Ch <sub>2</sub> O<br>2 5 |
| 1075 | 1100 | Mostly urtite somewhat brecciated with a few microijolite sections.<br>RA: N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                          |
| 1100 | 1125 | Mostly microijolite with a few urtite & calcite sections and a narrow calcite biotite inclusions.<br>RA: N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                          |
| 1125 | 1150 | Mostly microijolite with some ijolite sections. Biotite replacement rock at 1125-1126.3; 1131.2-1132.2; 1141.2-1141.5. Minor pyrite associated with the biotite.<br>RA: N                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                          |
| 1150 | 1175 | 1150-1155.5: Microijolite.<br>1155.5-1158.6: Calcite-biotite-pyroxene rock, fine gr.<br>1158.6-1158.5: Microijolite.<br>1158.5-1159: Biotite replacement rock with calcite, pyrite & pyrrhotite.<br>1159-1162: Microijolite.<br>1162-1163.7: Brecciated microijolite with calcite, biotite & pyrite.<br>1163.7-1167.3: Microijolite.<br>1167.3-1168: Urtite.<br>1168-1170.2: Brecciated urtite with 5" calcite inclusion.<br>1170.2-1171.3: Calcite-biotite-pyroxene; bluish grey fine gr. rock.<br>1171.6-1175: Mostly ijolite with minor pyrite & pyrrhotite and slightly brecciated.<br>RA: N |                 |                          |
| 1175 | 1200 | 1175-1180.5: Ijolite.<br>1180.5-1195: Urtite slightly brecciated.<br>1195-1200: Microijolite.<br><br>1200: END OF HOLE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                          |

COULEE & HEADWAY OKA PROPERTY

Hole 35      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                   | Sample No: | From | To  | Width  | Assays                             |
|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|--------|------------------------------------|
|      |     |                                                                                                                                                                                                                                                                                                                                                       |            |      |     |        | $\text{Cb}_{205}$<br>$\frac{1}{2}$ |
|      |     | At 50' hit water in overburden.                                                                                                                                                                                                                                                                                                                       |            |      |     |        |                                    |
| 75   | 100 | 0-93: Overburden.<br>93-95: Bluish, massive lim. with about 15% acc. including magnetite & some brown silicate. Minor pyrochlore in reddish brown crystals.<br>95-100: Core missing.<br>RA: N                                                                                                                                                         |            |      |     |        |                                    |
| 100  | 125 | Core missing: 100-100.3; 113.9-115.5; 116.3-117.5; 118.3-120; 120.3-121.2; 121.6-122.9; 123.3-125.<br>The rest is white, badly altered, pitted & broken lim. with about 15% acc. (Same as above)<br>Minor to fair resinous brown pyro.<br>RA: 1½x N                                                                                                   | 0-406      | 100  | 125 | 25     | 0.38                               |
| 125  | 150 | 125-130: Same altered lim. as above with core missing from 128-128.8.<br>The rest is massive lim. with 15-20% acc., mostly biotite & magnetite in fine to coarse grains.<br>132.6-133.9: Good resinous dark brown radioactive pyro. associated with much biotite, ( 50% of rock) pyroxene & calcite. Some disseminated pyro. throughout.<br>RA: 2½x N | 0-407      | 125  | 150 | 25     | 0.18                               |
| 150  | 175 | Massive white lim. with about 20% acc. mostly in med. grains including elongated pyroxene crystals, and good biotite & magnetite.<br>Disseminated pyro. in dark brown resinous & radioactive crystals in minor to fair amount.<br>RA: 2½x N                                                                                                           | 0-408      | 150  | 175 | 25.049 | 0.049                              |
| 175  | 200 | About same as above with less elongated pyroxene crystals & faint lin. at 53° to core, more pyro. than above specially from 186.5-188; 184-184.5. Some honey-colored crystals of apatite or may be niocalite at 197.<br>RA: 2½x N                                                                                                                     | 0-409      | 175  | 200 | 25     | 0.12                               |



COULEE & HEADWAY OKA PROPERTY

Hole 35    Direction: 227°    (242° 30' M)    Location: Lot 195  
              Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                       | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 200  | 225 | 200-200.7: Same as above;<br>200.7-202.3: Ijolite with fair magnetite & biotite specially at contact with lim.<br>Strongly radioactive & good dark brown pyro.<br>The rest is mostly microijolite with some biotite-rich section at 211.6-212.2.<br>RA: N | 0-410      | 200  | 225 | 25    | 0.18                                          |
| 225  | 250 | Mostly microijolite, dark green & very massive.<br>RA: N                                                                                                                                                                                                  | 0-411      | 225  | 250 | 25    | 0.19                                          |
| 250  | 275 | Same as above but with some calcite breccia from 271.5-275. Minor pyro. in calcite inclusion at 267.7.<br>Broken core: 263-265.<br>RA: N                                                                                                                  | 0-412      | 250  | 275 | 25    | 0.17                                          |
| 275  | 300 | Mostly microijolite with a few brecciated sections at: 275-277.5; 281.2-282; 291.5-292.2; 297: Some radioactive straw to reddish brown pyro. in those sections, specially good at 291.5-292.2 & 277-277.5. Some pyrite.<br>RA: 1½x N                      | 0-416      | 275  | 300 | 25    | 0.37                                          |
| 300  | 325 | Mostly microijolite with 2 narrow biotite-calcite brecciated sections at 302.2 & 312.3 containing some reddish brown pyro.<br>320-323.4: Urtite.<br>RA: N                                                                                                 | 0-417      | 300  | 325 | 25    | 0.13                                          |
| 325  | 350 | Mostly microijolite with a few narrow brecciated sections at 327.3; 329.9; 334.7; 339-341.<br>Straw to reddish brown pyro. at 329.9; 334.6; 339.5.<br>345-348: Ijolite.<br>RA: N                                                                          | 0-418      | 325  | 350 | 25    | 0.21                                          |
| 350  | 375 | Mostly microijolite with a few narrow brecciated sections at 359 & 368. Minor pyro. at 359.<br>Ijolite at 363.5-365; 368.5-370.<br>RA: N                                                                                                                  | 0-419      | 350  | 375 | 25    | 0.32                                          |

COULEE & HEADWAY OKA PROPERTY

Hole 35      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub> |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|------------------------------------------|
| 375  | 400 | 375-377: Brecciated ijolite.<br>377-387.2: Massive slightly altered and pitted white lim. with about 15% acc. including some pyrite.<br>2 narrow ijolite inclusions. Barren-looking type.<br>387.2-395: Pyroxene-calcite-biotite-nepheline-apatite rock. (Fine to med.-gr.) Good straw-colored radioactive betafite?<br>395-400: Brecciated ijolite with disseminated straw-colored pyro.?<br>RA: 1½x N                                                                                                                                                    | 0-420      | 375  | 400 | 25    | 0.94                                     |
| 400  | 425 | 400-402.5: Mostly brecciated ijolite with much calcite from 400-401.5.<br>Some biotite, melilite, vesuvianite & rich straw-colored undistinct col. crystals.<br>402.5-405: Biotite replacement rock with calcite & apatite.<br>405-408: Brecciated ijolite.<br>408-410: Microijolite.<br>410-420: Massive white lim. with a few ijolite inclusions & little acc. Good med.-gr., light brown resinous pyro. at 411-412; 413.5-414.5; 417.5.<br>420-425: Brecciated ijolite with pyro. at 420.5-421.5; 423.3 associated with biotite & calcite.<br>RA: 1½x N | 0-421      | 400  | 425 | 25    | 0.39                                     |
| 425  | 450 | 425-427.1; 428.1-428.7: Urtite.<br>White lim: 427.1-428.1; 428.7-430; 431.6-438.5;<br>Good pyro.: 431.5-432.<br>Rich pyro. associated with pyroxene at 428.9-439.5.<br>430-431.6: Biotite replacement rock with calcite, nepheline, vesuvianite and good strongly radioactive orange betafite? The rest is brecciated microijolite with 30% clacite. Some fine disseminated pyro.<br>RA: 1½x N                                                                                                                                                             | 0-422      | 425  | 450 | 25    | 0.36                                     |

COULEE & HEADWAY OKA PROPERTY

Hole 35    Direction: 227°    (242° 30' M)    Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                   | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 450  | 475 | Mostly brecciated ijolite with some microijolite & some urtite facies. Good strongly radioactive straw to reddish brown pyro. at 451.5; 452.5-453; 454-454.5; 461-461.5; 463-463.5. Some straw-colored at 472-473.<br>RA: 1½x N                                                       | 0-423      | 450  | 475 | 25    | 0.22                                          |
| 475  | 500 | Mostly microijolite slightly brecciated. Some urtite & ijolite facies. No visible pyro.<br>RA: N                                                                                                                                                                                      | 0-424      | 475  | 500 | 25    | 0.11                                          |
| 500  | 525 | 500-504: Urtite, slightly brecciated.<br>504-511: Microijolite.<br>511-515: Urtite slightly brecciated & altered.<br>515-516.3: Massive, white barren lim.<br>516.3-519: Microijolite.<br>519-522.5: Urtite.<br>522.5-525: Brecciated ijolite.<br>RA: N                               | 0-425      | 500  | 525 | 25    | 0.038                                         |
| 525  | 550 | Mostly brecciated ijolite with some urtite & microijolite facies.<br>534.3-536.4; 537.9-538.1; 541-542: Med. to coarse phenocrysts in ground-mass of calcite-pyroxene-biotite. Fair light brown and resinous pyro.<br>RA: N                                                           | 0-426      | 525  | 550 | 25    | 0.17                                          |
| 550  | 575 | 550-560.3: Brecciated ijolite with minor straw-colored pyro. at 550-551.<br>560.3-575: Massive white to bluish lim. with about 15% fine acc. mostly biotite. Fair reddish brown pyro. till 568.5 where the lim. becomes altered & pitted, with less pyro.<br>RA: 1½x N                | 0-427      | 550  | 575 | 25    | 0.25                                          |
| 575  | 600 | 575-594: Fairly massive white lim. with about 15% acc. including biotite in med. to coarse-gr. from 582 on. Slight lin. & jointing at 30° to core, along clay seam low angle slickenside at 586.<br>583.5-585: Biotite-rich rock. Fair straw to light brown pyro. throughout the lim. | 0-428      | 575  | 600 | 25    | 0.34                                          |

COULEE & HEADWAY OKA PROPERTY.

Hole 35 Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
|      |     | 594-600: Mostly microijolite.<br>RA: 1½x N                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |      |     |       |                                               |
| 600  | 625 | 600-616.2: Microijolite slightly brecciated from 605 on.<br>616.2-625: Massive white lim. with about 10% acc. in fine grains.<br>Good fine-gr. resinous brown pyro.<br>Faint lin. at 65° to core at 617.<br>RA: N                                                                                                                                                                                                                                                           | 0-429      | 600  | 625 | 25    | 0.21                                          |
| 625  | 650 | 625-626.7; 629-631.8; 633.8-638.2; 639.2-643.7: Mostly med. to coarse biotite phenoc. in a groundmass of calcite. Boundaries not well defined.<br>Good to rich light brown resinous & somewhat radioactive pyro. throughout.<br>626.7-629.6; 631.8-633.8: Brecciated ijolite.<br>643.7-645.5: Microijolite slightly brecciated. 638.2-639.2: Ijolite with biotite inclusions.<br>645.5-650: Massive white lim. with about 10% acc. Fair fine pyro. throughout.<br>RA: 1½x N | 0-430      | 625  | 650 | 25    | 0.83                                          |
| 650  | 675 | 650-650.5: Same lim. as above.<br>650.5-675: Mostly ijolite with some microijolite facies. Minor pyro. in narrow calcite breccia at 668.<br>RA: N                                                                                                                                                                                                                                                                                                                           | 0-431      | 650  | 675 | 25    | 0.06                                          |
| 675  | 700 | Mostly microijolite with some urtite & ijolite facies.<br>693.1-693.5: Barren white lim.<br>693.5-693.7: Light brown pyro. and some straw-colored apatite crystals.<br>RA: N                                                                                                                                                                                                                                                                                                | 0-432      | 675  | 700 | 25    | 0.103                                         |
| 700  | 725 | Mostly ijolite with some urtite & microijolite facies. Some straw-colored non-radioactive crystals at 702.8.<br>RA: N                                                                                                                                                                                                                                                                                                                                                       |            |      |     |       |                                               |

COULNE & HEADWAY OKA PROPERTY

Hole 35      Direction: 227°      (242° 30' M)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                | Sample From<br>No: | To Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------------------------------|
| 725  | 750 | Same as above.<br>RA: N                                                                                                            |                    |          |                                               |
| 750  | 775 | Mostly microijolite with some urtite<br>facies.<br>RA: N                                                                           |                    |          |                                               |
| 775  | 800 | Mostly microijolite.<br>RA: N                                                                                                      |                    |          |                                               |
| 800  | 825 | 50% Microijolite, & 50% urtite.<br>RA: N                                                                                           |                    |          |                                               |
| 825  | 850 | Same as above but more altered.<br>RA: N                                                                                           |                    |          |                                               |
| 850  | 875 | 850-855: Urtite.<br>The rest is mostly fine-gr. ijolite<br>slightly biotitized.<br>Narrow lamprophyre inclusion at 862.5.<br>RA: N |                    |          |                                               |
| 875  | 900 | Mostly microijolite.<br>3" calcite pyrite at 884.<br>RA: N                                                                         |                    |          |                                               |
| 900  | 925 | 900-902: Same as above.<br><br>902: END OF HOLE.                                                                                   |                    |          |                                               |

COULEE & HEADWAY OKA PROPERTY

Hole 36 Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                                                                                               | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 75   | 100 | 0-83.5: Overburden.<br>83.5-100: Brecciated ijolite slightly altered with minor calcite-biotite inclusions. Some disseminated straw-colored crystals.<br>RA: N                                                                                                                                                                                                                    | 0-437      | 83.5 | 100 | 16.5  | 0.15                                          |
| 100  | 125 | Same as above but with more biotite. Some good straw-colored pyro. from 115-115.6 in biotite-calcite rich section. Minor pyrite.<br>RA: N                                                                                                                                                                                                                                         | 0-438      | 100  | 125 | 25    | 0.15                                          |
| 125  | 150 | Same as above but less brecciated & with less biotite.<br>140-143; 145-147; 134-135.7: Broken core. The rock is also altered. Minor hard violet-blue fluorite? crystals at 146.8.<br>Good brown pyro. at 140.8.<br>RA: N                                                                                                                                                          | 0-439      | 125  | 150 | 25    | 0.17                                          |
| 150  | 175 | Same as above.<br>Broken core: 163-165; 169.2-170; 172.2-175.<br>Some soft greenish unctuous sections at 151.3 & 168.2 (slickensides).<br>RA: N                                                                                                                                                                                                                                   | 0-440      | 150  | 175 | 25    | 0.12                                          |
| 175  | 200 | 175-185: Brecciated ijolite.<br>185-187: Massive white lim. with about 10-15% acc. Fair straw-colored pyro.<br>187-190: Microijolite.<br>190-200: Massive lim. with some ijolite inclusions and some sections with much biotite & soda pyroxene.<br>Fair straw-colored pyro. from 190-197, specially good at 193.8-194.5.<br>Minor pyrite, violet blue sodalite.<br>RA: 1 1/2 x N | 0-441      | 175  | 200 | 25    | 0.37                                          |
| 200  | 225 | 200-215: Brecciated ijolite, with few calcite inclusions slightly altered. Some violet fluorite? & minor straw-colored crystals at 201-202.<br>215-225: Ijolite with some urtite facies.<br>RA: N                                                                                                                                                                                 | 0-442      | 200  | 225 | 25    | 0.12                                          |



COULEE & HEADWAY OKA PROPERTY

Hole 36      Direction: 227° (242° 30' M)      Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                          | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 225  | 250 | 225-232.2: Ijolite.<br>232.2-250: Brecciated ijolite containing about 25% calcite.<br>235.4-236: Lamprophyre.<br>RA: N                                                                                                                       | 0-443      | 225  | 250 | 25    | 0.085                                         |
| 250  | 275 | 250-260.6: Mostly microijolite.<br>260.6-275: Massive white lim. with 25% ijolite inclusions.<br>Minor straw-colored crystals.<br>RA: N                                                                                                      | 0-444      | 250  | 275 | 25    | 0.13                                          |
| 275  | 300 | 275-279: Brecciated ijolite.<br>279-283.5: Massive white lim., fine-gr. with less than 10% acc.<br>283.5-298.5: Ijolite slightly brecciated. Some strongly radioactive brown crystals at 297.8.<br>298.5-300: Lim.<br>RA: N                  | 0-445      | 275  | 300 | 25    | 0.104                                         |
| 300  | 325 | Mostly white massive with some ijolite inclusions fine-gr. with about 15% acc., mostly biotite.<br>Some minor fine pyro. in the last 10';<br>Brecciated ijolite: 305.7-308; 311.5-314.2; 316.1-317.1.<br>RA: N                               | 0-446      | 300  | 325 | 25    | 0.13                                          |
| 325  | 350 | Lim.: 325-332; 335-337.3; 338.3-340;<br>344.5-350: Massive, white, slightly altered, fine-gr. with about 10% acc., mostly biotite.<br>The rest is brecciated ijolite with rich biotite sections at 340.3-341.3; 343-344.<br>RA: N            | 0-447      | 325  | 350 | 25    | 0.19                                          |
| 350  | 375 | Brecciated ijolite: 350.8-352.4; 353-354; 355.5-356.7; 366-369.4.<br>The rest is massive white lim. with little fine acc.<br>From 371.7 to 375, there are med. to coarse phenoc. of biotite & pyroxene.<br>Minor fine pyro. at 364.<br>RA: N | 0-448      | 350  | 375 | 25    | 0.14                                          |

COULKE & HEADWAY OKA PROPERTY

Hole 36 Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                                                                                                      | Sample No: | From | To  | Width | Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-----------------------------------------------|
| 375  | 400 | 375-377.1 & 378.8-379.5: Same gradational type as above with pyroxene-biotite phenocrysts in calcite groundmass.<br>The rest is ijolite with microijolite facies & barren fine calcite-pyroxene inclusion at 389-390.<br>Much biotite from 390-391.5.<br>399.5-400: Fine calcite-pyroxene rock.<br>RA: N | 0-449      | 375  | 400 | 25    | 0.077                                         |
| 400  | 425 | 400-400.7: Fine-gr. barren calcite-pyroxene rock.<br>The rest is ijolite & microijolite with biotite-calcite-ijolite-rich section from 406.8-409.7.<br>RA: N                                                                                                                                             | 0-450      | 400  | 425 | 25    | 0.074                                         |
| 425  | 450 | Mostly microijolite dark green with few urtite sections.<br>RA: N                                                                                                                                                                                                                                        | 0-451      | 425  | 450 | 25    | 0.047                                         |
| 450  | 475 | Mostly ijolite with fair amount of biotite & with nepheline sometimes in fine to med. grains from 454-460 which give the rock a syenitic appearance.<br>RA: N                                                                                                                                            | 0-452      | 450  | 475 | 25    | 0.045                                         |
| 475  | 500 | 475-482.4: Microijolite.<br>482.4-483.7: Barren white lim. slightly altered.<br>483.7-491.5: Ijolite.<br>491.5-492.7: Massive white lim. with 10% acc. & fair light brown pyro.<br>492.7-500: Ijolite.<br>RA: N                                                                                          | 0-453      | 475  | 500 | 25    | 0.061                                         |
| 500  | 525 | Ijolite.                                                                                                                                                                                                                                                                                                 | 0-454      | 500  | 525 | 25    | 0.031                                         |
| 525  | 550 | Same as above but with fair biotite and minor calcite in the ijolite from 544.5-547.<br>Fair biotite from 535-537.5.<br>RA: N                                                                                                                                                                            |            |      |     |       |                                               |
| 550  | 575 | Same as above, with fair biotite in some sections.<br>RA: N                                                                                                                                                                                                                                              |            |      |     |       |                                               |

COULEE & HEADWAY OKA PROPERTY

Hole 36    Direction: 227° (242° 30' M)    Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                                                                                                                                                                            | Sample No: | From | To  | Width | Assays                              |
|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----|-------|-------------------------------------|
|      |     |                                                                                                                                                                                                                                |            |      |     |       | Cb <sub>2</sub> O <sub>5</sub><br>% |
| 575  | 600 | Mostly ijolite, slightly altered with fair biotite & minor calcite. 596.6-597.7: Fine-gr. lim. with about 20% acc., mostly biotite. RA: N                                                                                      |            |      |     |       |                                     |
| 600  | 625 | 600-601: Med.-gr. biotite crystals in calcite-pyroxene grey groundmass with biotite-calcite on both margins. The rest is ijolite with fair biotite. RA: N                                                                      |            |      |     |       |                                     |
| 625  | 650 | Ijolite showing fine red nepheline & some biotite. RA: N                                                                                                                                                                       |            |      |     |       |                                     |
| 650  | 675 | Ijolite. RA: N                                                                                                                                                                                                                 |            |      |     |       |                                     |
| 675  | 700 | Slightly altered ijolite with some urtite facies. RA: N                                                                                                                                                                        |            |      |     |       |                                     |
| 700  | 725 | Fine-gr. ijolite with fair biotite & minor calcite showing some red nepheline crystals. RA: N                                                                                                                                  |            |      |     |       |                                     |
| 725  | 750 | Same as above with some grey calcite inclusions from 749-750. RA: N                                                                                                                                                            |            |      |     |       |                                     |
| 750  | 775 | 750-768: Ijolite slightly altered with a few microijolite sections. 768-774.5: Massive white lim. with about 10% acc. in fine grains, mostly brown vitreous silicate, some fine resinous pyro. throughout. 774.5-775: Ijolite. | 0-455      | 750  | 775 | 25    | 0.16                                |
| 775  | 800 | Ijolite with a few calcite inclusions & some biotite. RA: N                                                                                                                                                                    |            |      |     |       |                                     |
| 800  | 825 | Massive fine-gr. ijolite with little biotite. RA: N                                                                                                                                                                            |            |      |     |       |                                     |

COULEE & HEADWAY OKA PROPERTY

Hole 36

Direction: 227° (242° 30' M) Location: Lot 195  
Dip: 60°

| From | To  | Log                                                                         | Sample From<br>No: | To Width Assays<br>Cb <sub>2</sub> O <sub>5</sub><br>% |
|------|-----|-----------------------------------------------------------------------------|--------------------|--------------------------------------------------------|
| 825  | 850 | Fine-gr. slightly altered ijolite<br>showing red nepheline grains.<br>RA: N |                    |                                                        |
| 850  | 875 | Fine-gr. ijolite.<br>RA: N                                                  |                    |                                                        |
|      |     | 869: END OF HOLE.                                                           |                    |                                                        |