


~~HAT CREEK X(3) G~~  
~~APPENDIX 153~~

HAT CREEK BOREHOLE INDEX




































74-23	75-57	 (copy 1)
74-37A	75-61	
74-44	75-62	

HAT CREEK ~~75-73~~  
 74 (3) D

00 126  
 7/8 R






















Denver, Colorado ..... D-626  
 Casper, Wyoming ..... CW-682  
 Billings, Montana ..... M-432  
 Calgary, Alberta ..... C-1036  
 Regina, Saskatchewan ..... R-1025

**ROCK TYPES**





-  SIDERITE, bedded
-  SANDSTONE
-  SILTSTONE
-  BENTONITE
-  COAL
-  SALT
-  GYPSUM
-  MARLSTONE, limy-dolomitic
-  LIMESTONE
-  DOLOMITE, primary
-  DOLOMITE, secondary
-  ANHYDRITE, primary
-  ANHYDRITE, secondary
-  SHALE, light gray
-  SHALE, medium gray
-  SHALE, dark gray
-  SHALE, black
-  COLORED SHALES, light hue
-  COLORED SHALES, medium hue
-  COLORED SHALES, dark hue
-  CLAYSTONE, light gray
-  CLAYSTONE, medium gray
-  CLAYSTONE, dark gray
-  CLAYSTONE, black
-  COLORED CLAYSTONE, light hue
-  COLORED CLAYSTONE, medium hue
-  COLORED CLAYSTONE, dark hue
-  GLACIAL TILL
-  CONGLOMERATE, example, 40% cht, 40% ls, 10% dol pbl, 10% spnd
-  BRECCIA
-  GRANITE WASH
-  IGNEOUS, basic
-  IGNEOUS, acidic
-  VOLCANIC
-  METAMORPHIC

**ACCESSORIES THAT CAN BECOME A ROCK TYPE**





percentage use of accessory symbols per ten-foot intervals	
0 to 5% = no symbols	20 to 40% = 2 symbols
5 to 20% = 1 symbol	40 to 50% = 3 symbols

-  ARKOSIC
-  ARGILLACEOUS, disseminated
-  DOLOMITIC
-  CALCAREOUS
-  ANHYDRITIC
-  GYPSIFEROUS
-  FLOATING SAND GRAIN
-  SILTY
-  SANDY
-  ARGILLITE GRAIN
-  CHERT, light and dark
-  CHERT, tripolitic
-  CHERT, sandy and oolitic
-  NODULES, Fe-st
-  NODULES, limy
-  NODULES, dolomitic
-  NODULES, phosphatic
-  NODULES, siderite
-  SIDERITE PELLETS
-  GLAUCONITIC
-  SALT CAST or INFILL

**TEXTURE**














-  LITHOGRAPHIC
-  CRYPTOCRYSTALLINE
-  EARTHY
-  CHALKY

**MISCELLANEOUS**
















-  KARST TOPOGRAPHY
-  VERY POOR SAMPLES (Questionable Interpretation)
-  CAVINGS, cannot interpret
-  NO SAMPLES

**ROCK BUILDERS**

percentage use of rock builder symbols per ten-foot intervals	
0 to 20% = 1 symbol	50 to 70% = 2 symbols
20 to 50% = 1 symbol	70 to 100% = 3 symbols

-  ALGAL, nondescript
-  ALGAL, encrusting
-  ALGAL, oötid
-  ALGAL, coralline
-  BIOCLASTIC or FRAGMENTAL
-  PSEUDO OÖLITES or PELLETS
-  CORAL
-  STROMATOPORGID
-  BRYOZOA
-  FORAMINIFERA
-  CRINOID
-  OÖLITES
-  MOLLUSKS

**ACCESSORIES**

-  MARL, limy
-  MARL, dolomitic
-  LIMESTONE STREAKS
-  DOLOMITE STREAKS
-  PYRITE
-  BENTONITIC
-  SILICEOUS
-  SHALE, laminæ
-  SIDERITE CEMENT
-  PLANT SPORES
-  MINERAL CRYSTALS
-  CALCITE CRYSTALS
-  PLANT REMAINS
-  FISH REMAINS
-  FOSSILS

**ABBREVIATIONS OF DEPOSITIONAL ENVIRONMENTS**

- |   |   |   |  |   |
|---|---|---|--|---|
| <p>R — Residual</p> <p>E — Eolian</p> <p>G — Glacial</p> <p>C — Colluvial</p> <p><b>FLUVIAL</b></p> <p>Ft — Turbulent</p> <p>Fa — Agitated</p> <p>Fi — Intermittent</p> <p>Fq — Quiet</p> <p>Fb — Bog</p> | <p><b>LACUSTRINE</b></p> <p>Lt — Turbulent</p> <p>La — Agitated</p> <p>Li — Intermittent</p> <p>Lq — Quiet</p> <p>Lb — Bog</p> <p>Lp — Penesaline</p> <p>Ls — Saline</p> <p>Lh — Hypersaline</p> <p>Lr — Reef</p> <p>Lo — Organic</p> | <p><b>LACUSTRINE STRAND</b></p> <p>Lt — Turbulent</p> <p>La — Agitated</p> <p>Li — Intermittent</p> <p>Lq — Quiet</p> <p>Lb — Bog</p> | <p><b>TRANSITIONAL or STRAND</b></p> <p>Tt — Turbulent</p> <p>Ta — Agitated</p> <p>Ti — Intermittent</p> <p>Tq — Quiet</p> <p>Tb — Bog</p> <p>Tp — Penesaline</p> <p>Ts — Saline</p> <p>Th — Hypersaline</p> | <p><b>MARINE</b></p> <p>Mt — Turbulent</p> <p>Ma — Agitated</p> <p>Mi — Intermittent</p> <p>Mq — Quiet</p> <p>Me — Euxinic</p> <p>Mp — Penesaline</p> <p>Mr — Reef</p> <p>Ms — Saline</p> <p>Mh — Hypersaline</p> <p>Mo — Organic</p> |
|---|---|---|--|---|



Specimens marked with N. Chind  
(Boreholes 37A, 57, 61, 62, 73)

HC HAT CREEK ~~25(2)6~~

HAT CREEK BOREHOLE 74 - 23

74(3)D

Specimens

- 246 pale grey clay with plants  
268 pale grey clay with plants  
279 black irregular carbonaceous shale, (? coal) some resin  
  
326 poor coal  
337 pale grey clay with plants  
  
341 specimen of plant  
344'5 could be part of plant or volcanic ash, pale brown silty  
  
352 pale brown silty clay (hard) with plants (? ash)  
  
363 hard pale brown, with plants (silty clay ? with siltstone perhaps)  
  
374'5 clay, disintegrates (? bentonite) pale brown  
  
380 clay, pale brown, listric surfaces  
383'5 pale brown coherent clay, banded, with plant fragments (? ash)  
395 probably poor variety of Hat Creek coal  
  
405 pale brown clay with plants  
415 'poor' coal  
418 pale brown silty clay (hard) interbanded irregularly with planty material  
420 pale grey-brown clay with plant fragments  
450 peculiar clay, dark, planty  
455 carbonaceous, dark planty shale, almost coal ?  
  
475 pale clay parting with plants (? ash)  
479 probably 'poor' coal  
497 pale brown silty, white fragments (? ash)  
497'5 ? plant fragment  
498 ? plant fragment  
500 coal  
518 coal  
524 coal (resin)  
541 brown clay, listric surfaces, plants (? seatearth)  
546 pale grey-brown clay, plants, probably ash  
550 coal with resin  
565 dark clayey parting with lots of small bright plant fragments  
  
576 pale grey-brown silty clay with white spots interbedded with coal (? ash)  
  
588 pale brown silty clay banded in coal (? ash) (½")  
  
607 very distinctive pale brown banded silty with white spots (? ash) also ? plant fragments  
  
609 pale brown silty clay with white spots (? ash)  
  
615 coal with resin  
615'6 'poor coal' or clayey parting  
  
638 ? plant fragments  
639 plant fragments  
  
669'6 dark clay with resin fragments  
  
718 ground-up clay  
723 plant fragments ?, (? 733')  
727 coal (? broken-up)  
  
740 ? plant fragments plus coal specimen  
743 pale brown clay banded with white spots (? ash)

00126.

HAT CREEK BOREHOLE 74 - 23 continued...

757 coal, banding irregular  
771 pale grey clay parting with plants; (? ash)  
773 coal  
783 ? seatearth, dark brown listric surfaces, plants  
  
795'6 pale grey clay with plants, (? seatearth, ? bentonit c)  
797 'grit' plants ?  
797'2 silty clay (? bentonitic)  
809'6 'sandstone' (?)  
810 sandstone  
813 could be seatearth or slickensided  
818 pale grey disintegrated clay  
835 conglomerate (pebbles up to ½ inch)  
856 conglomerate (pebbles up to 1" or 1 1/2")  
911 pale grey seatearth  
977 structureless buff claystone, rare plant  
1282 broken up buff claystone  
1242 ? seatearth

00126

## Specimens

- 176 pale brown claystone  
 193 pale brown claystone  
 232 pale brown claystone (more compact)  
 246 pale brown claystone (more compact)  
 289'6 pale brown claystone (some staining around carbonaceous fragments)
- 313 off-white band in pale brown clay
- 324'5 pale brown clay with dark grey portion
- 358 pale brown claystone, disintegrated  
 456 pale brown claystone with plant fragments
- 654'6 pale brown claystone with 1/2" paler band (? ash)
- 661 pale brown claystone, disintegrating  
 667 brown claystone (? fish fragment) (? conodont)  
 703 yellow-brown band in brown claystone (? ash)
- 723'5 dark brown-grey mudstone with brown streak  
 725'5 similar to 723'5 perhaps siltier but sulphury  
 726 as 723'5 but plant fragments  
 728 coal, ? canneloid  
 729 pale yellow-brown clay (? ash)
- 762 slickensided grey-brown clay (? seatearth)
- 778 coal with resin  
 797 slickensided grey clay with plants ?, seatearth (broken up)  
 798 slickensided grey clay with plants, (? seatearth) broken up  
 808'5 fossil plant in coal ?  
 826 grey clay with partings, ? seatearth (listric surfaces)  
 827 pale brown claystone with plants (cf. stuff at beginning of hole )
- 867 coal (? vitrain)  
 882 coal (dull with occasional bright streak) resin  
 890 coal (heavier ?) fossilized plant fragments and FeCO<sub>3</sub>
- 958 carbonaceous silt with coalified plant fragments  
 ? some kind of seatearth, slightly silty and a brownish look to it
- 997 grey silty sandstone with occasional vertical rootlet (?)  
 1025 calcified plant fragment  
 1070'5 pale grey sandstone (? ashy) plant fragments
- 1288 coaly material with irregular pale grey-brown partings (could these be ash ?)  
 1295 similar to 1288 but more clayey material (? ash)
- 1345 pale brown clay with white flecks (? ash) sticks to tongue
- 1351 coal, one piece like cannel other piece shows banding near or parallel to core axis  
 1355 brown clay with plenty listric surfaces (? seatearth)
- 1411'3 coaly material with interbanded (irregularly) pale grey clayey material (? ash)
- 1553'1 pale brown clay with white flecks (? ash)  
 1615 coal with resin  
 1640 (heavy) probably mainly fossilized material but check for ash  
 1648 pale brown clay with white specks, plenty material (? ash)

1579 Fossilized plant

...../2

HAT CREEK BOREHOLE 74 - 37A continued....

- 1736 breccia, cemented together  
1765 fossilized plant  
1766'3 pale grey finely banded silty clay and clay and very fine carbonized plants sometimes cutting bedding (? seatearth)  
1771 ? brecciated silty pale brown claystone with plant fragments and calcite veining  
1777 silty grey clay with plants  
1790 'pelletal' looking pale grey clay with plant material  
  
1791 cf. 1790 ?, also fossilized plant fragments  
1796 interbanded pale grey (pelletal) and dark grey clay with plant material  
  
1801 pale brown-grey silty clay with lots of fine plant fragments and some larger (vertical) ? seatearth  
  
1819 dark grey silty mudstone with fragments of pale grey-brown clay and plant debris, looks like breccia (? contemporaneous)  
1821'6 ? plant fragments or 'pelletal' rock  
1838'6 ? breccia  
1851 brown claystone  
1868 interbedded pale brown clay with coal material (this might be thin ashy material)  
1876 pale brown claystone (white spots) (? ash)  
N.B. contact  
  
1891 brown clayey material with carbonaceous shale, fairly heavy (? FeCO<sub>3</sub>)  
  
1927 brown clayey material interbedded with coaly material mixture, lots of fine plant debris also perhaps fossilized large plant  
  
1968 brown clay parting in coal (? ash)  
2007 pale brown clay parting with white spots (? ash)  
2061 fossilized plant (but test for ash !)  
2087 coal with resin  
2166'8 brown-grey clay banded in dark shale  
2167'6 decomposing sandstone with grains in clay  
2175 decomposing pale brown clay

10/26

## Specimens

- 392'6 disintegrated pale brown claystone  
 352'4 yellowish claystone  
 353'4 pale buff claystone
- 542 buff claystone with plants
- 612 dark grey mudstone with ? spores  
 621 pale brown clay plants, white spots (? ash)  
 623'5 brown claystone, fine planty material in core (? ash)  
 689'6 probably fossilized plant  
 690'3 coal with resin  
 692'6 probably fossilized plant
- 718'6 grit with coalified plants
- 834 darkish grey seatearth
- 957'9 buff clay with plant fossils
- 962 coal with dark grey clay containing coalified plants
- 1035 coarse grit (up to 1/8") grey and white speckled
- 1089 pale brown clay with white specks (? ash)
- 1159'5 grey clay (broken up) with plant fragments  
 1160'3 grey sandstone with plant fragments  
 1161 broken up buff clayey grit
- 1172 conglomerate on top of 'sandstone', most pebbles  
 1/8th, 1/4th, or 1/2"
- 1207 pale grey clay 3/4" in middle of dark grey seatearth (? ash)
- 1212 banded pale grey and dark grey clay but with fine  
 coalified plant fragments, slickensided
- 1378'6 pale brown clay (yellowish stain) (? ash)
- 1404 dark grey seatearth  
 1476'5 clayey grit on top of silty clay (pale grey) with  
 plants (N.B. soft clay between them)
- 1510 conglomerate average 1/4 - 1/2", some 3/4", clayey  
 matrix, some pink pebbles
- 1524'6 buff, irregularly banded clay with plants, compact
- 1617 grey pellety clay with lots of plants (broken up)  
 1617'5 brecciated and pellety, grey to darker clay with  
 plants and white specks (? ash)
- 1527 pellety buff clay with plants in coal
- 1631 ? some sort of sandstone or siltstone, pale grey clay  
 at one end, white specks and fine veining
- 1636'5 pale grey clay with lots of small plant fragments
- 1642'3 hard brown (?) silty material with plant fragments  
 (heavy ? FeCO<sub>3</sub>)
- 1699 pale irregularly bedded clay with fine plants,  
 looks 'ashy'
- 1734 pale grey-buff clay, slightly silty, looks 'ashy'
- 1754 graded bedding in silty pale grey and grey clay with  
 slight faulting, plant fragments
- 1784 peculiarly bedded pale grey clay and silt with plants



HAT CREEK BOREHOLE 74 - 44 continued....

- 1788'5 irregularly bedded pale grey and silty clay with plants  
(? bioturbation)
- 1807 grey mudstone with white pellets, plant fragments
- 1876 grey silty mudstone with plants
- 1916'6 pale claystone with white pellets (? ash)
- 1925 black oolitic looking material, brown on outside  
(? sphaerosiderite)
- 2046 darkish grey mudstone with white specks (? ash)
- 2052 top layer grey with white specks (? ash)  
most of specimen is brown with plant fragments  
? canneloid coal or shale
- 2064'1 brown 'mudstone' with coal fragments and resin
- 2065 buff clay with plants and white specks (? ash)
- 2216 conglomerate  
pebbles up to 3", pale clay matrix

00126

Specimens

- 446 pale grey claystone with some carbonaceous laminations
- 670 pale grey claystone, sometimes laminated
- 672
- 728 laminated grey claystone
- 751'7 pale brown claystone (? ash)
- 762 laminated grey claystone (? varves)
- 816 ? worm burrows (sandstone in clay below)
- 955 pale brown claystone in coal (? ash)
- 994 as above (? ash)
- 1064 pale brown silty claystone (? ash)
- 1091 coarse speckled silty claystone (? ash)
- 1150'5 type of seatearth
- 1337 coal with bedding parallel to core axis
- 1428 coarse grit eroding into carbonaceous mudstone and pale grey claystone (irregularly interbedded)  
it appears erosive surface and bedding are parallel to core axis

HAT CREEK BOREHOLE 75 - 61

00/26

Specimens

- 542'8 black mudstone with (? fish)
- 544 black mudstone with (? fossils)
- 544'5 black mudstone with (? fish)
- 545 brownish-black mudstone with (? fossils)
- 546 brownish-black mudstone with (? fish)
- 547 brownish-black mudstone with (? fish)
- 547'3 brownish-black mudstone with (? fish) or ? small bivalve
  
- 552'6 pale buff claystone (? volcanic ash)
  
- 594'8 grey-brown mudstone with (? fish)
  
- 612 buff claystone (? volcanic ash)
  
- 1057 pale grey mudstone with plant fragments interbedded irregularly with silty material (? bioturbation)
  
- 1235 ? poor coal with clay partings
  
- 1278 pale brown claystone (? ash)

HAT CREEK BOREHOLE 74 - 48

Specimens

- 497 (? fish fragments in brown claystone)

00126

Specimens

- 607'6 pale grey clay with plants
- 994'6 pale grey clay with coalified fragments (? type of seatearth)
- 1012 ? type of seatearth
- 1018'3 ? volcanic ash (pale grey claystone) 2" band, plant fragments numerous
- 1019'3 ? volcanic ash (more plant fragments)
- 1041'9 speckled white claystone (? volcanic ash)
- 1418 ? volcanic ash and plant fragments (speckled)
- 1548 grey-buff claystone (? volcanic ash) plant fragments
- 1615 brown speckled claystone in coal (? ash)
- 1626 speckled claystone bands in coal (? ash)
- 1620'6

HC-HC 74(2)D.

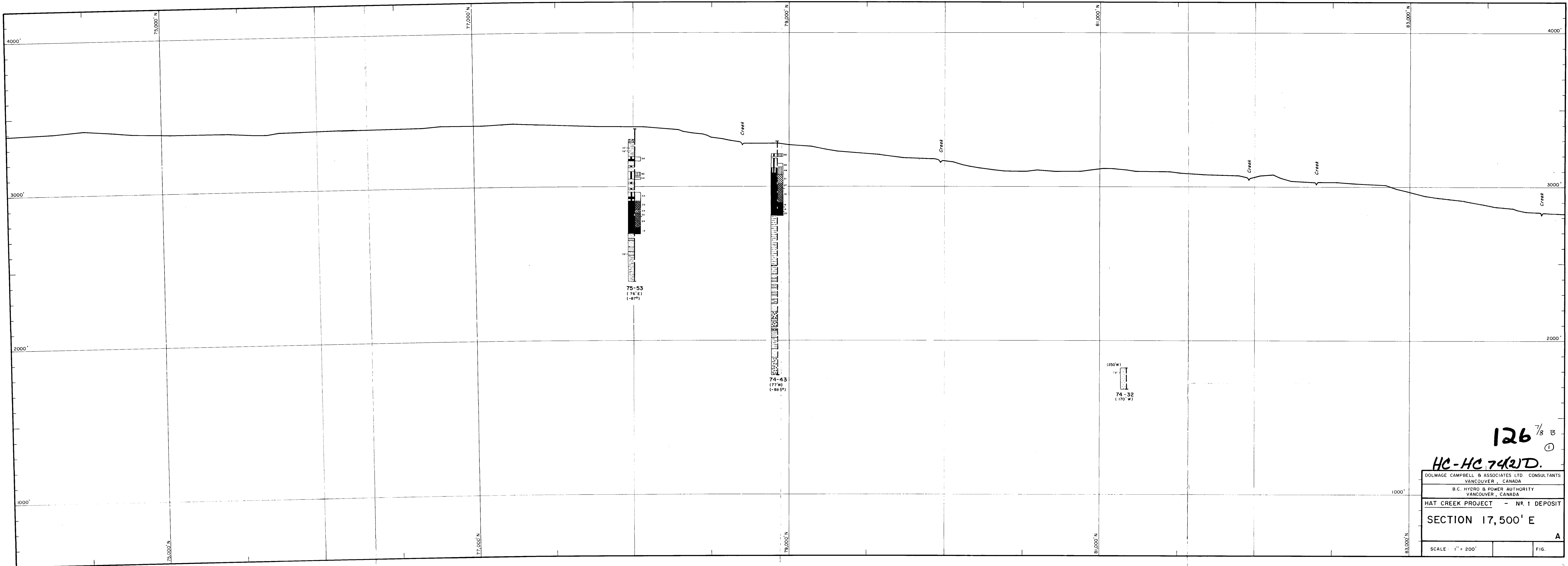
**HC #1 Proj. Deposits.**

(Book - B1)

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00 126

7/8 B



126 <sup>7/8</sup> B  
①

HC-HC 74(2)D.

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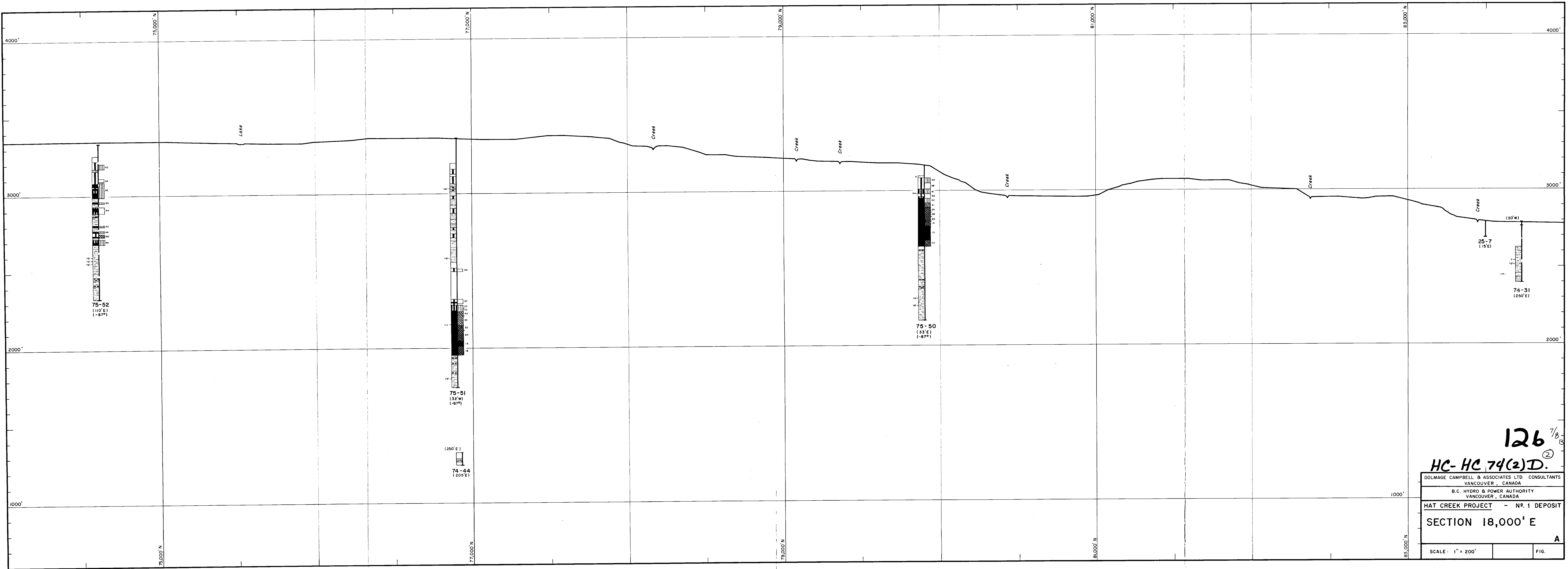
B.C. HYDRO & POWER AUTHORITY  
VANCOUVER, CANADA

HAT CREEK PROJECT - No. 1 DEPOSIT

SECTION 17,500' E

A

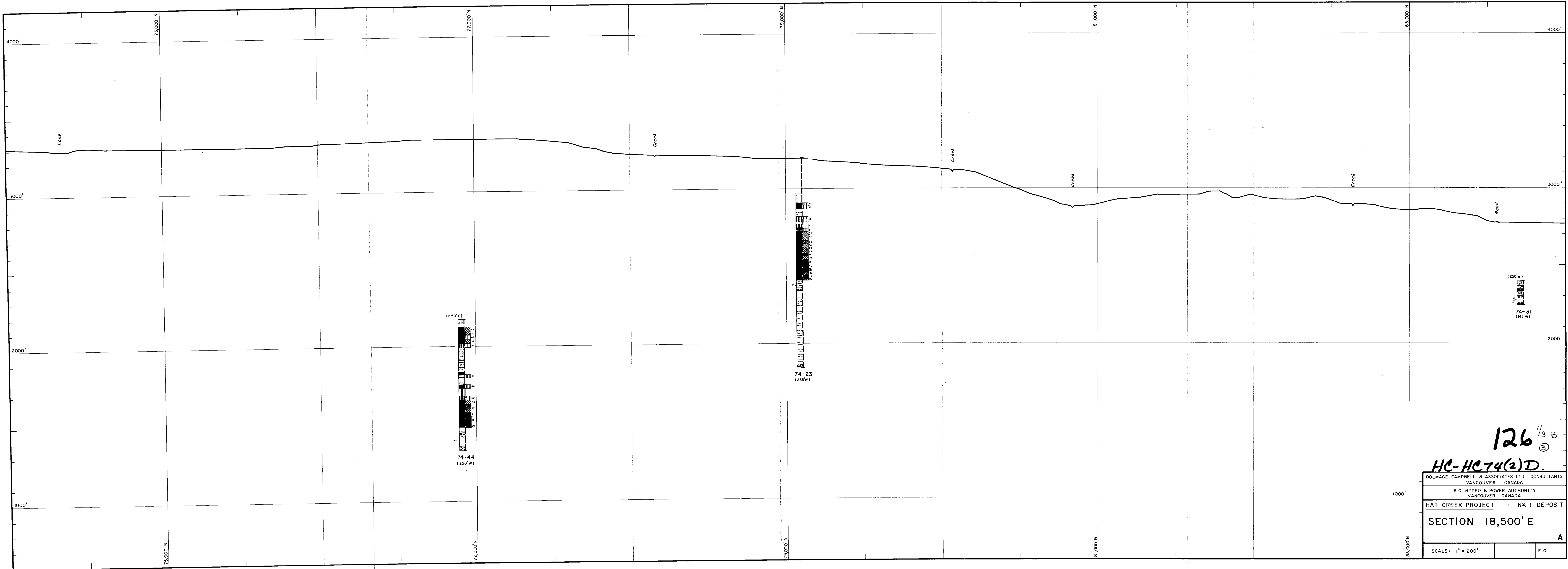
SCALE: 1" = 200' FIG.



126 <sup>7/8</sup> ②

**HC-HC 74(2)D.**

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B.C. HYDRO & POWER AUTHORITY VANCOUVER, CANADA	
HAT CREEK PROJECT - N <sup>o</sup> . 1 DEPOSIT	
SECTION 18,000' E	
A	
SCALE: 1" = 200'	FIG.



126 <sup>7</sup>/<sub>8</sub> B  
③

HC-HC74(2)D.

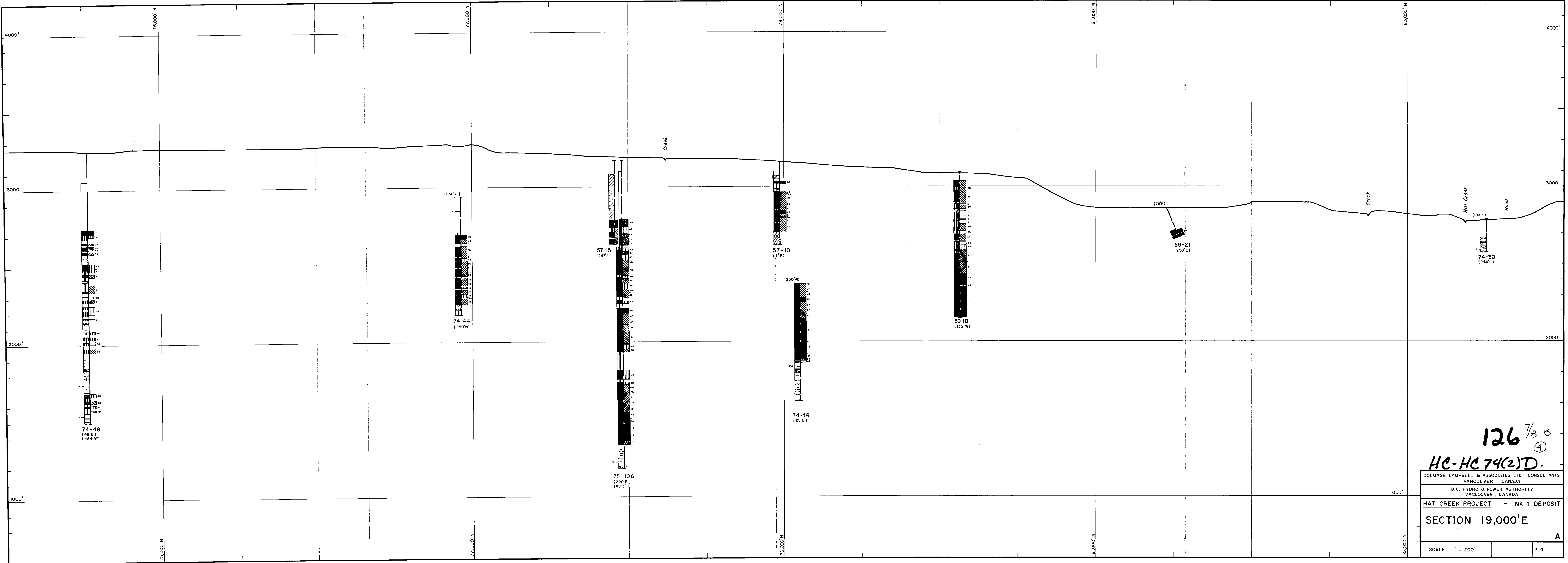
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HAT CREEK PROJECT - No. 1 DEPOSIT

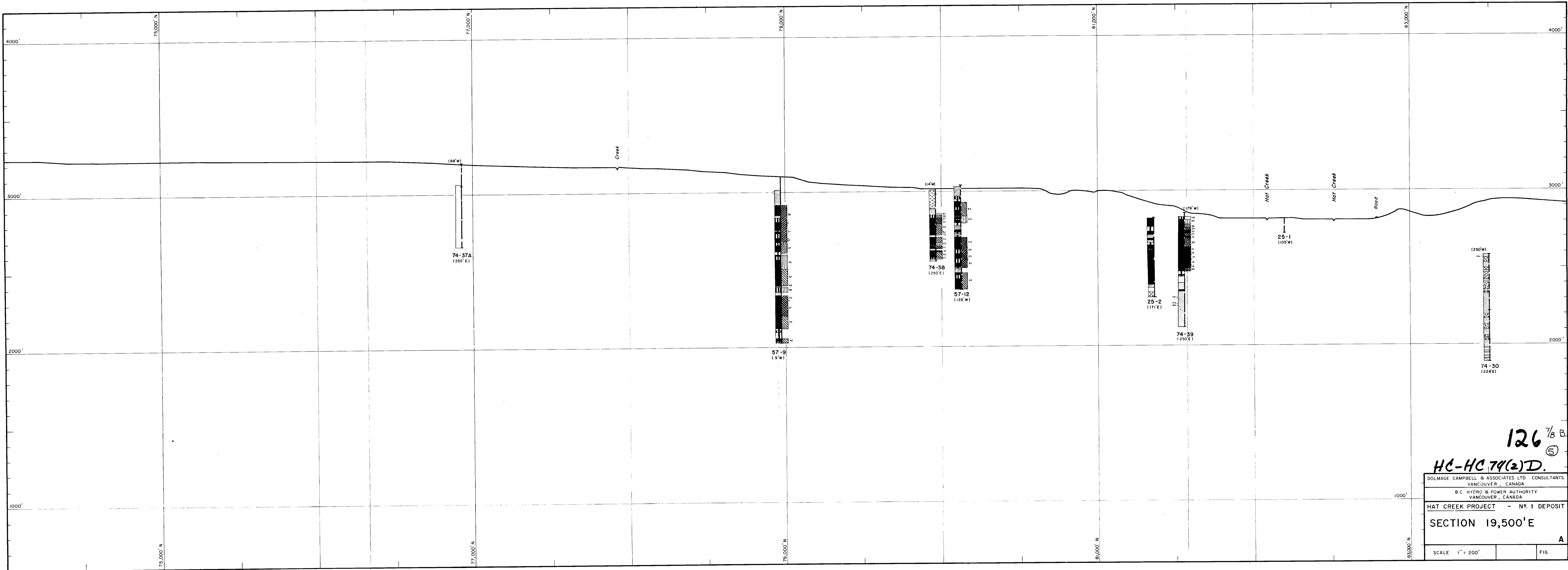
SECTION 18,500' E

SCALE: 1" = 200'      FIG. A





**126** <sup>7/8</sup> B  
 (4)  
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**HAT CREEK PROJECT - No. 1 DEPOSIT**  
**SECTION 19,000'E**  
 SCALE: 1" = 200'      FIG.      **A**



126 <sup>7</sup>/<sub>8</sub> B

(5)

HC-HC 74(2)D.

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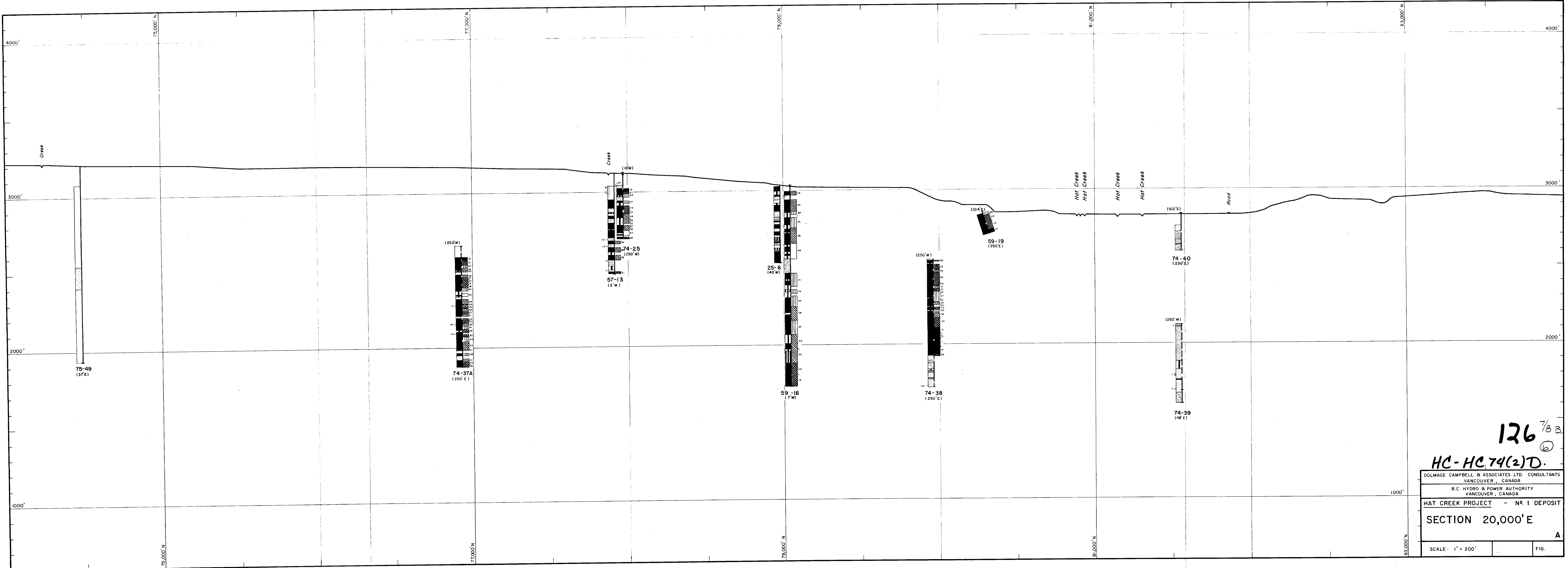
HAT CREEK PROJECT - No. 1 DEPOSIT

SECTION 19,500'E

A

SCALE: 1" = 200'

FIG.



126 <sup>7/8</sup> B

(6)

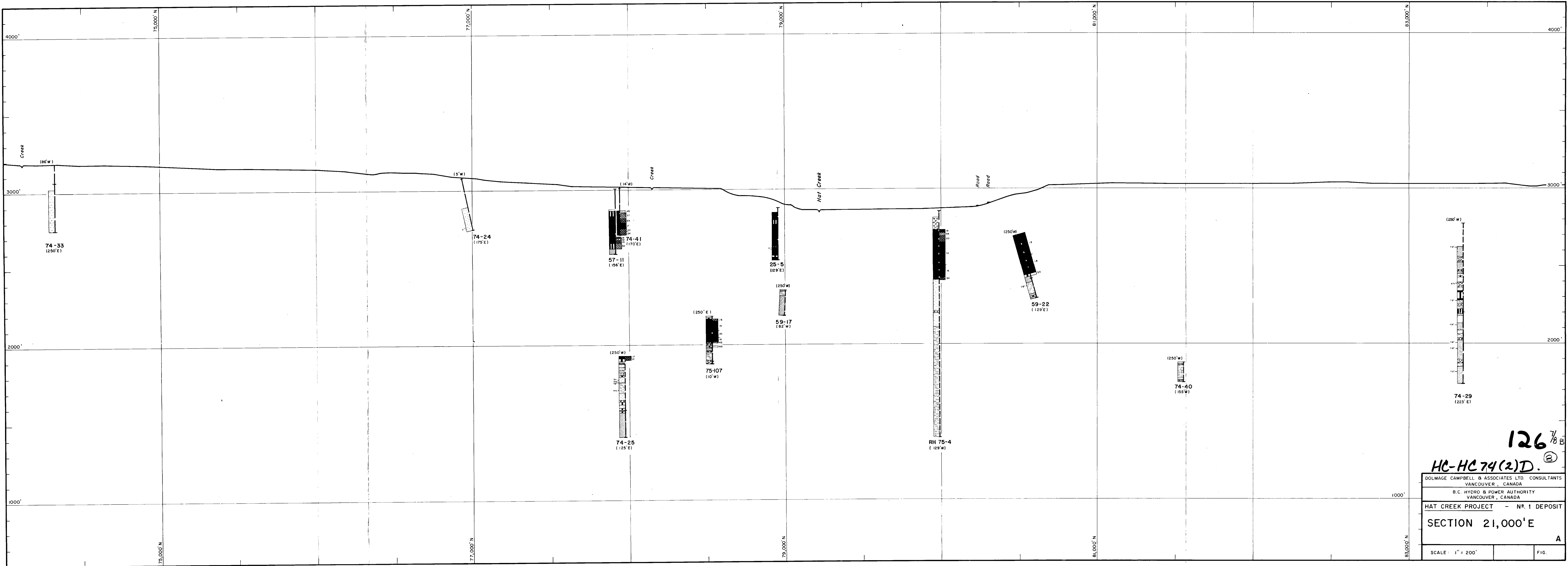
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SECTION 20,000' E	
SCALE: 1" = 200'	FIG. A



126 7/8 B  
 HC-HC 74(2)D. ⑦

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SECTION 20,500' E	
SCALE: 1" = 200'	FIG. A



126 <sup>7</sup>/<sub>8</sub> B

HC-HC74(2)D. (B)

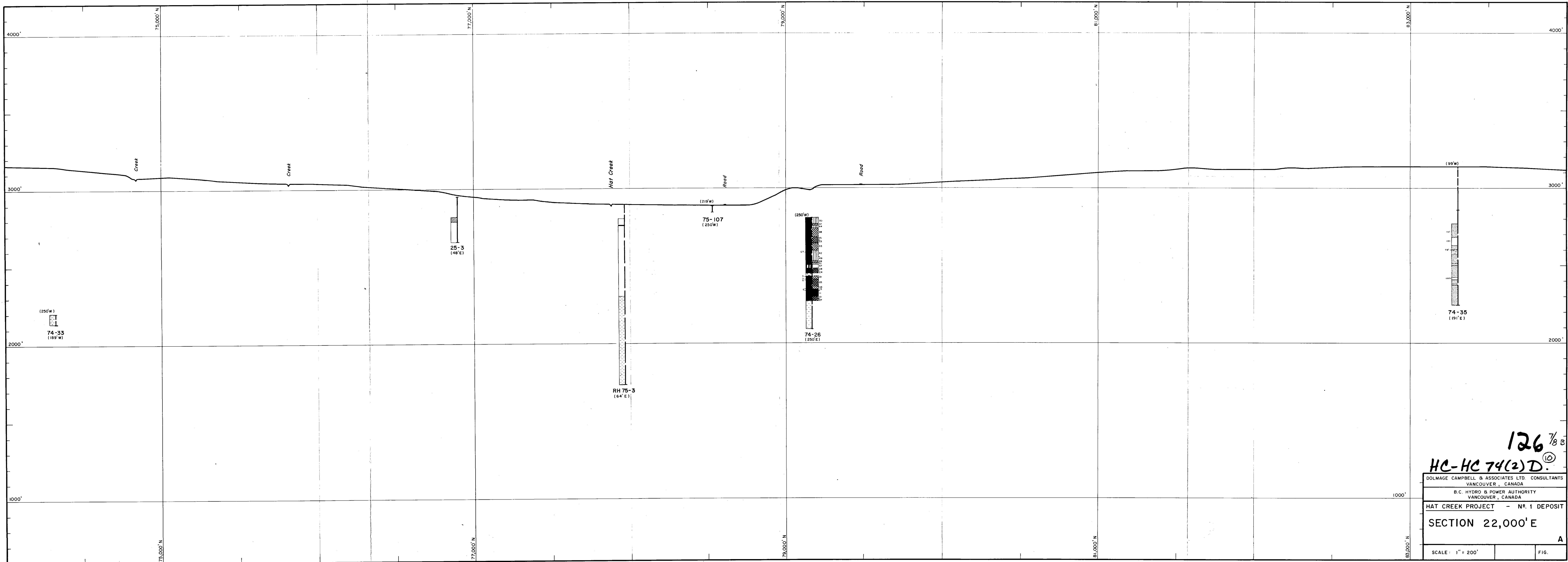
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HAT CREEK PROJECT - No. 1 DEPOSIT	
SECTION 21,000'E	
SCALE: 1" = 200'	FIG. A



126 7/8 B

HC-HC 74(2)D.

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HAT CREEK PROJECT - No. 1 DEPOSIT	
SECTION 21,500' E	
SCALE: 1" = 200'	FIG. A



126 <sup>7</sup>/<sub>8</sub> B

HC-HC 74(2)D. <sup>10</sup>

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HAT CREEK PROJECT - No. 1 DEPOSIT	
SECTION 22,000' E	
SCALE: 1" = 200'	FIG. A