BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

HAT CREEK PROJECT

PRELIMINARY GEOLOGICAL REPORT

NO. 2 DEPOSIT

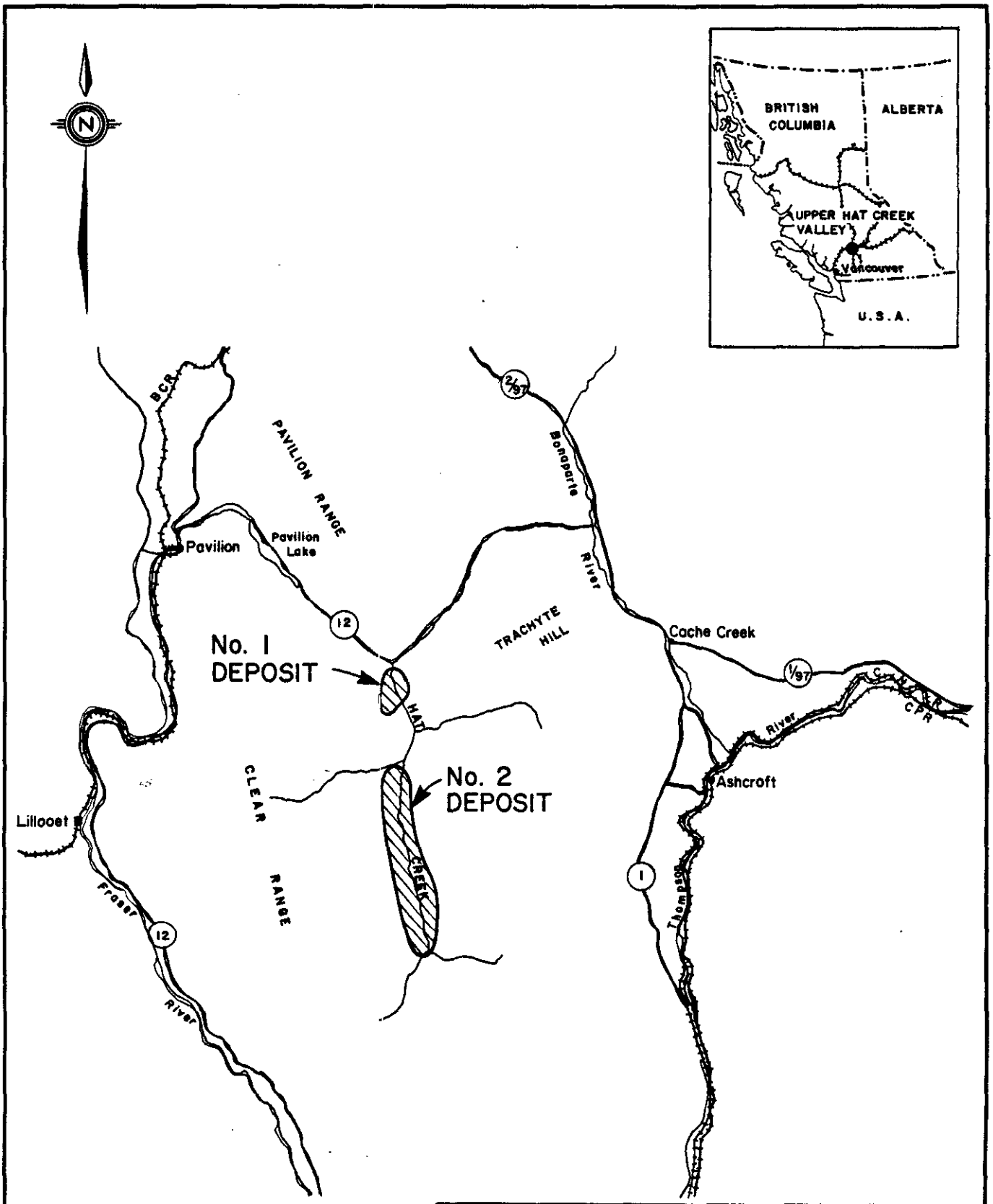
MINING DEPARTMENT
HAT CREEK THERMAL PROJECTS GROUP

EAT CREEK PROJECT
GEOLOGICAL REPORT
NO. 2 DEPOSIT

CONTENTS

TABLES

PLATES



BRITISH COLUMBIA HYDRO & POWER AUTHORITY

THERMAL DIVISION · MINING DEPARTMENT
HAT CREEK PROJECT · No. I DEPOSIT

LOCATION PLAN

SEPTEMBER 1979 | PLATE 1

1.0 INTRODUCTION

Hat Creek No. 2 Deposit lies to the southeast of No. 1 Deposit (Plate 1). The coal licences held by British Columbia Hydro and Power Authority are consolidated into three groups (Plate 2). Coal-bearing formation is confined within a narrow elongated horst faulted anticline 7.5 km long north-south and 3.6 km wide east-west. This report reviews and updates the information on the geology, geophysics, coal quality and reserves in the Hat Creek Coal No. 2 Deposit.

Data from 64 holes (not including abandoned holes) aggregating 21,799.9 m drilled during the 1975-1976 exploration program which included downhole geophysics, surface geophysics, and chemical analyses of the coal cores were studied in detail (Appendix I).

The structural interpretation and reserve estimates are confined to the coal above 400 m elevation which is the maximum depth penetrated by the boreholes: none of the boreholes are known to have intersected the stratigraphic base of Hat Creek Coal Formation.

The geophysical parameters established for the No. 1 Deposit (API vs Ash-Range) has been slightly modified to fit No. 2 Deposit. Any anomaly in the logs has been verified by actual core examination.

The geological in place reserve of possible category has been estimated as in excess of 4.5 billion tons. An allowance of 25% has been made for waste in the sections.

Applying the same criterion as in No. 1 Deposit: material greater than 60% ash is classified as waste; the quality of the coal appears slightly lower than in No. 1 Deposit based on the limited data currently available.

2.0 EXPLORATION

2.1 Drilling

In the early phases of drilling in 1975-1976, most sites were selected on their easy accessibility.

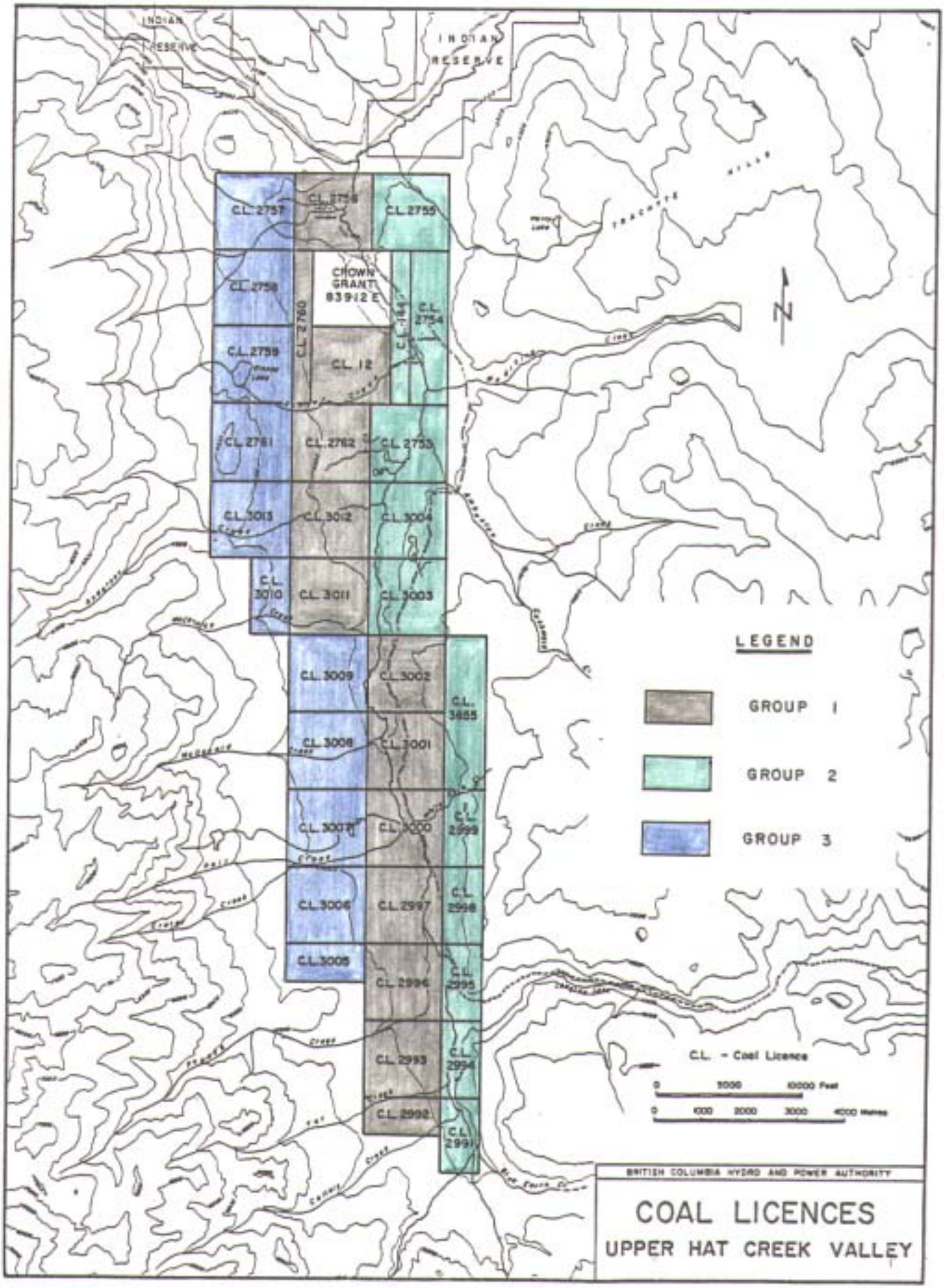

INDIAN RESERVE
INDIAN RESERVE
C.L. 2757
C.L. 2756
C.L. 2755
C.L. 2758
CROWN GRANT 83912 E
C.L. 2760
C.L. 2754
C.L. 2759
C.L. 12
C.L. 2761
C.L. 2762
C.L. 2753
C.L. 3013
C.L. 3012
C.L. 3004
C.L. 3010
C.L. 3011
C.L. 3003
C.L. 3009
C.L. 3002
C.L. 3008
C.L. 3001
C.L. 3007
C.L. 3000
C.L. 2999
C.L. 3006
C.L. 2997
C.L. 2998
C.L. 3005
C.L. 2996
C.L. 2995
C.L. 2993
C.L. 2994
C.L. 2992
C.L. 2991
LEGEND
GROUP 1
GROUP 2
GROUP 3
C.L. - Coal Licence
BRITISH COLUMBIA HYDRO AND POWER AUTHORITY
COAL LICENCES
UPPER HAT CREEK VALLEY

PLATE 2

In later phases of the program anomalies indicated by gravity surveys which differentiates between the low density coal and high density sandstone, claystone, limestone etc., were drilled. There was no set pattern nor drilling grid for this program as it was more of a wildcat nature. Appendix II shows the location and depth of the holes.

2.2 Sampling

For normal proximate and heating value determination sampling was done on intervals varying from 1.5 m to 15 m. Ultimates, ash mineral analysis, ash fusibility in oxidizing and reducing atmospheres were conducted on composite samples from three or more intervals - varying from 15 m to 60 m.

2.3 Geophysical Logging

All drill holes in No. 2 Deposit have been geophysically logged, except those which were abandoned due to severe squeezing or caving. The types of logs used were gamma ray and bulk density.

Application of Downhole Geophysics

Through the evaluation of the downhole geophysics along with the descriptive geological logs, the various lithologic intervals intersected by drill holes were classified into various categories for identification and correlation purposes (Plate 11).

Table 1

Lithologic Classification for Geological Correlation

Category	Formation	Description
W1	Hat Creek Formation	Carbonaceous to coaly claystone or shale.
W2	"	Claystone, siltstone.
W3	"	Sandstone, conglomerate.
W4	"	Petrified wood.
W5	"	Ironstone, siderite.
W6	"	Carbonate, marl.
W7	"	Ash.

Table 1 (Cont'd)

W8	Medicine Creek Formation	Siltstone, claystone.
W9	Coldwater Formation	Siltstone, sandstone, claystone, conglomerate.
W10	Finney Lake Formation	Lahar, sandstone, conglomerate.
W11	Kamloops Volcanics	Rhyolite, dacite, andesite, basalt and equivalent pyroclastics.
W12	Spences Bridge Group	Andesite, dacite, basalt, rhyolite, tuff breccias, agglomerate.
W13	Hat Creek Formation	Burned zone.
C1	"	Coal $\geq$ 18.0 MJ/kg ($\leq$ 23.2 API and $\leq$ 1.47 gram/cc on gamma and density logs.)
C2	"	Coal 18.0 - 9.3 MJ/kg (23.2 - 38 API and 1.47 - 1.62 gram/cc on gamma and density logs.)

2.4 Geophysical Survey:

Magnetometer Survey

B. C. Department of Mines and Petroleum Resources in conjunction with the Geological Survey of Canada had issued maps of airborne magnetometer surveys covering the area (maps N.T.S. 92I/11, 12, 13 and 14). As this area was flown in two separate years, November 1966 and May 1968, one using fixed-wing and the other helicopter, and also as they measured relative and absolute values for the gravity, the two sectors were not compatible. However, each can be interpreted and evaluated individually.

The magnetic field strength does not appear to vary significantly from ground level to an elevation of 1000 feet above. This indicates that the magnetic source is very deep - probably to the depth of the Cache Creek Metavolcanics Group.

The 1975 Ground Magnetometer Survey was directed towards:

1) mapping the Tertiary volcanic units,

2) determining the depth of the basin and nature of deep geological structure.

This survey also outlined the volcanics, burnt outcrops (subcrops) and the regional tectonics.

Gravity Survey

Gravity Survey has been the most effective tool in outlining the limits of the coal basin. In 1974, the first attempt at interpreting the Bouguer Gravity anomaly was not successful essentially due to insufficient data and not being able to evaluate the effect of underlying high density material. When more data and proper mathematical treatment, the gravity survey carried out during May-December 1975 yielded recognizable contrasts assisting in exploration program.

C. A. Ager & Associates undertook this gravity survey over No. 2 Deposit. The east-west lines were 4000' - 5000' apart, the station intervals were 200 feet. The calculated gravity anomaly shows the highest contrast ever recorded. Exploration drill holes located using the results of the gravity survey had a very high success ratio in intersecting coal horizons.

3.0 REGIONAL GEOLOGY

3.1 Stratigraphy

The stratigraphic sequence shown in Table 2 covers a span of over 200 million years of sedimentation processes and igneous activities in the vicinity of the Upper Hat Creek Valley.

The lowest stratigraphic unit is the Paleozoic Cache Creek Group, which has been divided into greenstone and the limestone of the Marble Canyon Formation. The limestone was intruded by the Mount Martley stock of Jurassic or Cretaceous age which is composed of granodiorite and tonalite coeval with the Lytton Batholith. The stock is unconformably overlain by the Spence Bridge Group of the Lower Cretaceous Period consisting mainly of andesite and basalt. The Kamloops Group of the Eocene Epoch unconformably overlies the Spences Bridge Group. Deposition of this unit began with volcanic eruptions of lavas and pyroclastics of rhyolite, dacite and basalt. The volcanic pile

is overlain by clastic rocks composed mainly of conglomerate, sandstone and siltstone of the Coldwater Formation. Lying conformably over the Coldwater Formation is the coal-bearing Hat Creek Coal Formation at least 550 m thick.

The Hat Creek Coal Formation is overlain in apparent paraconformity by the Medicine Creek Formation, which is made up of monotonous lacustrine sediments of over 550 m true thickness. The Finney Lake Formation represents the uppermost stratigraphic unit of the Kamloops Group and consists of sandstone and conglomerate beds at the base and lahar beds higher in the stratigraphic section. Generally, the sedimentary rocks derived from the underlying igneous, sedimentary and metamorphic assemblages have been semi-indurated.

The youngest volcanic rocks in the area are olivine basalt, basalt, vesicular basalt, andesite (locally) and the equivalent pyroclastics all of the Miocene Epoch. A flow or dyke of these rocks occurs in the headwall of the active slide northwest of the No. 1 Deposit.

During the Pleistocene Epoch the entire Hat Creek area, along with much of the Interior Plateau, underwent extensive glaciation. This resulted in the deposition of glacial and glacio-fluvial sediments, ranging in thickness from a few metres to 200 m.

3.2 Structure

The Hat Creek Coal Basin lies in a north-trending topographic depression within the southwest part of the Intermontane Basin of the Canadian Cordillera. The Fraser River separates the Intermontane Belt from the Coast Plutonic Complex. During the Eocene Epoch, non-marine, synorogenic and syntectonic clastic sediments were deposited, preceded and possible succeeded by the accumulation of sub-aerial volcanic rocks. Mid-Tertiary erosional activities resulted in widespread areas with low relief. The main physiographic features of the Fraser and Thompson River drainage systems were well established at this time.

Table 2

REGIONAL STRATIGRAPHY - HAT CREEK COAL BASIN

Period	Epoch	Million Years	Formation or Group	Thickness (m)	Rock Types
Quaternary	Recent			Not Determined	Alluvium, Colluvium, fluvial sands and gravels, slide debris, lacustrine sediments.
	Pleistocene	1.5 - 2			Glacial till, glacio-lacustrine silt, glacio-fluvial sands and gravels, land slides.
Unconformity					
Tertiary	Miocene	7 - 26	Plateau Basalts	Not Determined	Basalt, olivine basalt (13.2 m.y.), andesite, vesicular basalt.
	Unconformity (?)				
	Miocene or Middle Eocene ?		Finney Lake Formation	Not Determined	Lahar, sandstone, conglomerate.
			Unconformity		
	Late Eocene		Medicine Creek Formation	600+	Bentonitic claystone and siltstone.
			Paraconformity		
	Late Eocene to Middle Eocene	* 36 - 42	Hat Creek Coal Formation	550	Mainly coal with intercalated siltstone, claystone, sandstone and conglomerate.
			Coldwater Formation	375	Siltstone, claystone, sandstone, conglomerate, minor coal.
			Fault Contact or Nonconformity		
	Middle Eocene	43.6-49.9		Not Determined	Rhyolite, dacite, andesite, basalt and equivalent pyroclastics.
Unconformity (McKay 1925; Duffell & McTaggart 1952)					
Cretaceous or Later	Coniacian to Aptian **	88.3±3 m.y.	Spences Bridge Group	Not Determined	Andesite, dacite, basalt, rhyolite; tuff breccias, agglomerate.
	Erosional Unconformity (Duffell & McTaggart 1952)				
		98	Mount Martley Stock	Not Determined	Granodiorite, tonallite.
Intrusive Contact (Duffell & McTaggart 1952)					
Pennsylvanian to Permian or earlier		250-330	Cache Creek Group:		
			Marble Canyon Formation	Not Determined	Marble, limestone, argillite
			Greenstone	Not Determined	Greenstone, chert, argillite; minor limestone and quartzite, chlorite schist, quartz-mica, schist.

Kamloops Group

* Based on palynology by Rouse 1977

** Based on plant fossils by Duffell & McTaggart 1952.

The Tertiary coal basin in the Hat Creek Valley is a graben, flanked on either side by gravity faults. This interpretation of the structure is based on the regional tectonic trend and the available geological records.

This graben is formed principally by downward movement on a series of tensional faults approximately north-south trending. Transverse faults trending north-west have locally offset the graben.

4.0 LOCAL GEOLOGY

4.1 Bedrock Geology

The bedrock geologic map (Plate 3) is based on the geophysical surveys and geologic mapping undertaken by the Generation Planning Dept. in 1975-1976. This map forms the basis of the current review till such time as it is revised or confirmed by our own fieldwork.

The Tertiary sediments including Coldwater Formation, Hat Creek Coal Formation, Medicine Creek Formation and Finney Lake Formation occupy the central section of the Hat Creek Valley. These Formations are bordered on the east by the Marble Canyon Formation, Permian or earlier in age, and in the west by the Kamloops Volcanic rocks of Early Tertiary age and/or the Spences Bridge Group volcanic rocks of Cretaceous age.

The eastern contacts are faulted while the western contacts could be either faulted and/or unconformable, as seen in Plate 4.

The top of bedrock contour (Plate 5) shows the near surface exposure of coal in the central and northern part of the deposit.

4.2 Lithofacies Change on Stratigraphic Profile

A stratigraphic correlation over the entire area of the No. 2 Deposit is not possible at this time due to the low drilling density and only partial intersection of the coal measures in the holes. A rapid facie change from

main coal facies to the silty and coarser detrital facies is evident in traversing from east to west across the deposit. This conclusion is confirmed by the drilling results from the following holes in the western sector of the deposit:

Hole 82 on Section 5,619,220 N;

Intersected 90 m of detrital rocks, but the same stratigraphic position in Hole 77, about 300 m to the east of this hole shows no detritals.

Hole 109 on Section 5,618,470 N:

The 28 m of detrital rocks, lying 281 m below the base of Medicine Creek Formation thins out and is replaced by coal in Hole 102, about 650 m to the east.

Hole 81 on Section 5,617,870:

Numerous silty to sandy bands up to 15 m which in this hole disappear in Hole 88, about 230 m to the northeast.

Hole 68 on Section 5,617,120:

This hole intersected 27 m of sandstone and conglomerate beginning at 340 m below the base of Medicine Creek Formation. Hole 115 about 330 m east of the above hole shows no significant detrital rocks except 10 m of silty sandstone bed.

4.3 Structure

On the basis of the structural contour map for the top of coal (Plate 4) the basic structure of the No. 2 Deposit appears to be an anticlinal horst, of which the east limb is truncated by the boundary fault, bringing the Medicine Creek Formation and Hat Creek Coal Formation in juxtaposition with the Marble Canyon Formation of Permian Period. This boundary fault has been mapped by B. N. Church and P. T. McCullough.

However, the western fault system (Plate 3) is not fully confirmed. It is critical to define the location and disposition of the coal sequence in this fault system as it affects the coal reserves, mine planning and slope stability aspects.

The NW-SE trending axis of the anticline makes an angle of 10^{o} with the true north. This angle varies towards the south. The western limb dips at 40^{o} towards west, the eastern limb is slightly steeper. At the north end, the fold plunges steeply to the north (Plate 6, 7 and 8).

Aside from the major eastern boundary fault, at least two normal faults may be inferred in the eastern sector of the deposit, based on the fact that Medicine Creek Formation appears at the projected Hat Creek Coal Formation horizon. These faults are based on the borehole data of the following sections:

Hole 63 on Section 5,619,220
87 on Section 5,616,370
104 on Section 5,616,070
103 on Section 5,615,620

Abrupt changes in coal roof elevation in Holes 101, 96, 98, 79 and 100 in the southern sector suggests an east-west trending normal fault between Section 5,615,500 N and 5,614,500 N.

5.0 QUALITY

All of the data pertaining to No. 2 Deposit is based on core analyses. The directives given by Dolmage Campbell & Associates were to conduct proximate, Sulphur and thermal value determination on all uniform-appearing samples. These intervals varied in length from 1.5 to 17.7 metres.

However, ultimate, ash-mineral analysis, 8-pt. ash fusion temperature, Hardgrove Grindability indices, proximate, thermal value determinations and form sulphur were conducted on composite samples which varied from 15 m to 60 m in length.

In determining the sample intervals, visual examination of the core was probably the only controlling factor. The geophysical logs were available only at the completion of the hole, by which time the core was already split. Thus, the analyses presented here appear to contain bands of low grade coal or waste which could be eliminated when mining.

At times two or more samples were composited for analyses eliminating the intervening parting. In reporting, all the components were assigned the common value.

An estimate of ash content, and hence the heating value, can be made by evaluating the geophysical responses. Hole 75-81 has been geophysically reevaluated to reflect the change in quality by assigning the estimated values (Table 3).

It is recommended that all holes in No. 2 Deposit be reevaluated, and average quality of the deposit be established.

The proximate, ultimate and mineral analyses of ash fusibility and grindability is presented in Appendix III A.

The statistical summaries for the proximate heating value, ultimate and ash analyses is shown in Appendix III B. Only those samples on which all the tests were done has been summarized.

It is of interest to note that the ash-heating value regression (Appendix III C.) for the No. 2 Deposit (for ash < 60% ash (db)) is:

$$Y = 84.5909 - 0.00282283.X$$

$$X = 29966.7 - 354.254.Y$$

Where Y = % of ash (db)

X = thermal value in kJ/kg

This equation is remarkably similar to the one established for No. 1 Deposit:

TABLE 3

REEVALUATION OF THE ANALYTICAL DATA OF BOREHOLE 75-81

Interval In Meters		Interval Length In Meters	Lab Samples Used		Average Grade and Coal, Waste Ratio*						% Change From Lab Samples To Adjusted Samples		
					From Lab Samples			From Geophysically Adjusted Data					
From	To		From	To	Grade In kJ/kg	Length of Coal in m	Length of Waste in m	Grade In kJ/kg	Length of Coal in m	Length of Waste in m	Grade	Length of Coal	Length of Waste
26.2	104.8	78.6	1	12	15,198	78.6	0	18,120	62.0	16.6	+19.2%	-21.1%	-
104.8	199.9	95.1	13	24	16,024	79.8	15.3	17,339	76.6	18.5	+8.2%	-4.0%	20.9%
199.9	303.8	103.9	25	36	13,481	81.3	22.6	14,698	73.1	30.8	+9.0%	-10.1%	36.3%
303.8	401.7	97.9	37	44	16,193	71.7	26.2	17,824	63.7	34.2	+10.1%	-11.2%	30.5%
401.7	502.9	101.2	45	57	14,019	64.6	36.6	15,539	60.4	40.8	+10.8%	-6.5%	11.5%
502.9	560.2	57.3	58	67	11,056	25.4	31.9	15,297	16.5	40.8	+38.4%	-35.0%	27.9%
26.2	560.2	534.0	1	67	14,740	401.4	132.6	16,612	352.3	181.7	+12.7%	-12.2%	+37.0%

*Based on selective mining, minimum 1 m parting and 9300 kJ/kg (db) cutoff grade.

$$Y = 86.6254 - 0.00292962.X$$

$$X = 29568.8 - 341.341.Y$$

This similarity indicates that the two coal deposits may have a common organic source and have undergone approximately the same degree of metamorphism in spite of the fact that No. 2 Deposit coal lies under a deeper overburden. The shallower depth of No. 1 Deposit may have resulted from erosion or extensive glaciation after coalification and metamorphism have ceased. Palynological studies also indicate the same age of the formations in the two deposits. These are reflected by the ash vs heating value regression analysis (Appendix III D.).

6.0 RESERVES

The reserve for No. 2 Deposit was calculated by the section method, extending each section halfway to the next section north and south. Slices 100 m thick between 1100 m and 400 m elevation were treated individually (Table 4).

Due to lack of sufficient density of holes, roughly 25% of the total volume was assigned to waste with specific gravity 2, while coal formed 75% of the volume at 1.5 specific gravity. This is based on average coal-waste ratio of the holes.

Table 4

Reserve Estimates

Depth Meters	Coal Tonnes x 10^6	Waste Tonnes x 10^6
1100-1000	60	27
1000- 900	280	124
900- 800	489	217
800- 700	731	325
700- 600	900	400
600- 500	1024	455
500- 400	1080	480
Total	4564	2028

The computer model method which was used for No. 1 Deposit could not be applied to No. 2 Deposit because of insufficient data points and imprecise nature of structural geometry.

The limits of the deposits have not been established by drilling: they have been projected by surface geophysical surveys and by "top of coal" structure contours. The location and disposition of the faults and other tectonic elements, have not been fully established to permit a more precise determination of reserves.

For purpose of this study the reserves are confined within 5,613,000 N and 5,620,500 N. The eastern and western limits are the projected structures extended to 400 m elevation. As such, these reserve estimates should be considered as only preliminary.

7.0 RECOMMENDATION

The current level of information for No. 2 Deposit is too scanty for a complete geological evaluation. None of the holes penetrated the entire coal sequence - nor are the coal deposit limits established with any certainty. Due to lack of this knowledge neither stratigraphical correlation nor the quality and reserves estimation can be done with confidence.

To meet these basic requirements the following stages of exploration work are recommended:

Stage I

Objective:

1. To define the limits of the coal deposits.
2. To outline the local structure and identify major tectonic elements within the sectional lines.
3. To recognize the sedimentary, volcanic and burnt coal formations.

Geophysical Surveys

Gravity Survey:

The geophysical work conducted in the past proved to be very useful in defining coal and no-coal zone. The distance between these sections varied between 1200 m - 1500 m (Plate 9). This should be reduced to at least 500 m. The spacing between stations should be between 50 - 75 m depending on the variation between their readings.

A proposal for carrying out this work has been submitted by C.A. Ager & Associates. About 2500 stations are estimated for this survey.

Magnetic Survey:

Airborne proton precession magnetometer survey to ±1 gamma sensitivity to be flown over the coal-bearing area to define the faults disposition, burnt outcrop and volcanics more precisely.

This work can be integrated with the gravity survey and the airborne magnetic survey data obtained earlier by the B. C. Department of Mines and the Geological Survey of Canada and ground magnetic survey conducted by B. C. Hydro in 1975 (Plate 10).

Evaluation of Technological Characteristics & Utilization

Standard proximate analyses and fusibility - grindability study are not sufficient for evaluating technological characteristics of coal. A gas-chromotography and petrographical study with combustion related studies are essential for establishing the technological characteristics. A proposal for this work has been discussed with U.B.C., Department of Metallurgy (Dr. A. C. Chaklader) who had studied Hat Creek coal before.

Stage II

Objective:

1. To establish the thickness and variation of the coal-bearing horizon.

2. To confirm the major and minor tectonic in the deposit.

3. To permit planning of a detailed exploration program.

Drilling, Logging & Sampling:

A total of 14,520 m is proposed of which 8,840 m is of higher priority and 5,680 m of lower priority. The coordinates and objective of each of the holes is listed in Table 5. The location and drilling depth required for intersecting the bottom of the Hat Creek Formation is shown in Plate 12.

Geophysical and Geological Logging:

All boreholes drilled will be geophysically logged for gamma and bulk density to the scale of 1:250.

Geological logging will be assisted by geophysical logs confirming the contact between coal and various lithologies.

Coal sampling intervals will depend on their lithologic uniformity and be confirmed by geophysical logs. The maximum length will be maintained at 6 m, as in the case of No. 1 Deposit.

Proximate analyses, heating value determinations and sulphur will be run on all samples containing less than 60% ash.

Larger composites combining three or more intervals are prepared for fusibility grindability and other special tests.

Stage III

Detailed Exploration:

Objective:

1. To establish major and minor structure affecting mining.

TABLE 5

DRILLING PROPOSAL IN NO. 2 DEPOSIT

First Priority:

Layout Nos.	Coordinates		Inclination	Azimuth	Proposed Depth (m)	Objective
	Northing	Easting				
A	5,618,170	599,130	90°	0	500	To establish stratigraphy and correlation with borehole Nos. 109, 81, 88.
B	5,618,370	599,580	90°	0	600	To establish stratigraphy in the central sector of No. 2
C	5,616,370	599,815	65°	090°	600	To locate position of fault west of graben (east).
D	5,619,220	598,380	90°	0	880	To establish stratigraphy and to determine west boundary fault.
E	5,616,370	598,980	90°	0	1,030	To delimit coal and to determine west boundary fault in the central west.
F	5,619,220	599,280	90°	0	1,200	Same as C on the NE sector.
G	5,614,120	600,180	90°	0	930	To establish stratigraphy & structure in the southern sector.
H	5,614,120	599,580	90°	0	1,000	Same as the above in the southwestern sector.
I	5,620,120	598,230	90°	0	950	To establish stratigraphy & to determine the northern limit of the coal deposit.
J	5,619,670	597,930	90°	0	1,150	To determine the northwestern limit of the deposit.
				Subtotal	8,840 m for 10 holes.	

Second Priority:

Layout Nos.	Coordinates		Inclination	Azimuth	Proposed Depth (m)	Objective
	Northing	Easting				
K	5,616,020	599,130	90°	0	1,100	To determine west boundary fault in the southwestern sector.
L	5,617,720	598,530	90°	0	1,150	Same as above in the central west sector.
M	5,618,170	598,680	90°	0	1,000	To establish stratigraphy and to correlate with "A".
N	5,618,170	599,430	90°	0	850	Same as M in the eastern sector.
P	5,617,420	599,130	90°	0	780	To establish stratigraphy in the gap between Boreholes L&E.
Q	5,615,920	599,580	90°	0	800	To establish stratigraphy & structure between Borehole No. 60 & results of "B".
				Subtotal	5,680 m for 6 holes.	

Proposed Total Drilling 14,520 m for 16 holes.

2. To study the detailed structure of the coal seam and establish mining grade and reserves.

3. To compile adequate data for mine planning.

The drill hole spacing will be determined as the program proceeds based on the complexity of the structure and the continuity of coal quality.

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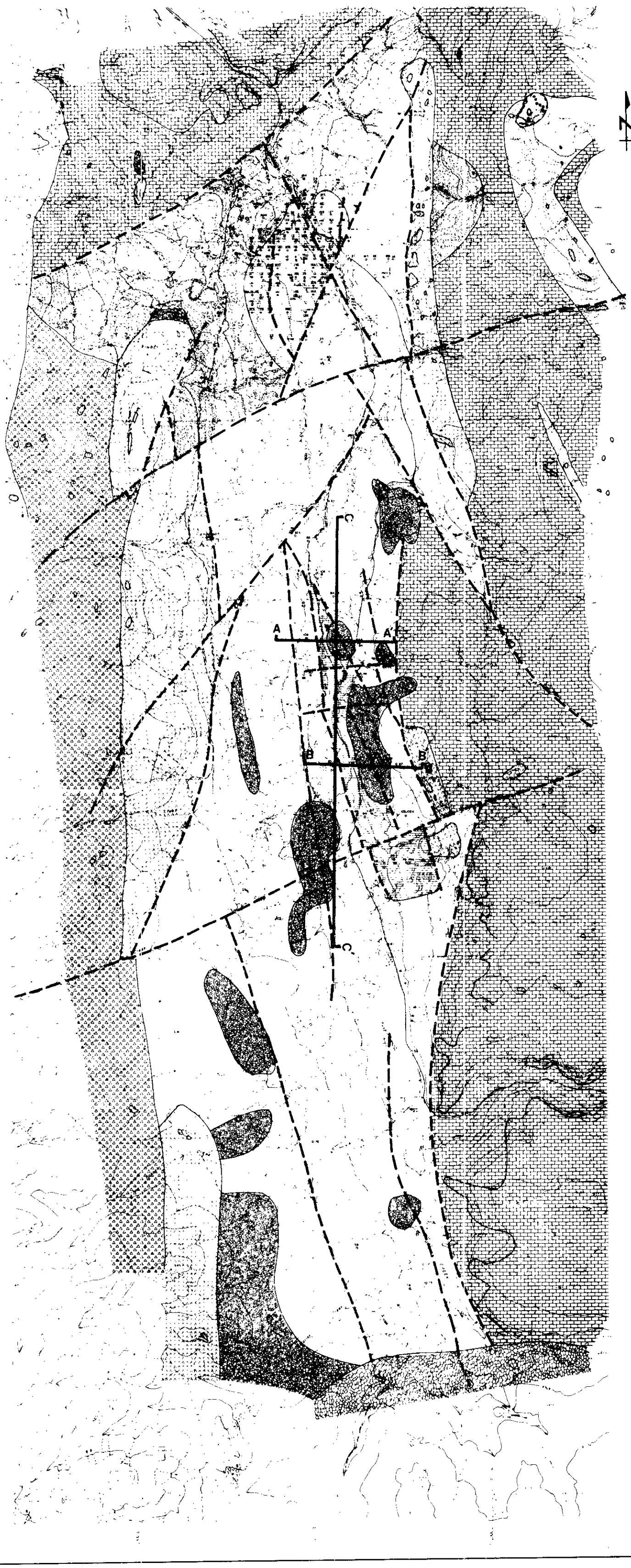

N
A
A'
B
B'
C
C'
SECTION LINE
LEGEND
TERTIARY
MIOCENE
OLIVINE BASALT
MIOCENE OR EOCENE
LAHAR
EOCENE
KAMLOOPS GROUP, MEDICINE CREEK FORMATION, SILTSTONE, CLAYSTONE
HAT CREEK COAL FORMATION: COAL (NEAR SURFACE)
COLDWATER BEDS, SANDSTONE, SILTSTONE, CONGLOMERATE, MINOR SHALE AND CLAYSTONE
DACITE, VESICULAR BASALT RHYOLITE, ANDESITE
CENOZOIC
CRETACEOUS AND LATER
UNDIFFERENTIATED VOLCANIC ROCKS
CRETACEOUS
SPENCES BRIDGE GROUP ANDESITE, RHYOLITE, BASALT, DACITE
MOUNT MARTLEY STOCK GRANODIORITE
MESOZOIC
PERMAIN AND EARLIER
CACHE CREEK GROUP: MARBLE CANYON FORMATION, LIMESTONE
GREENSTONE
PALEOZOIC
OUTCROPS
CONTACTS (APPROXIMATE)
FAULTS AND LINEAMENTS (TOPOGRAPHIC AND GEOPHYSICAL)
MAIN ROAD
SECONDARY ROAD
LAKE
CREEK
BRITISH COLUMBIA HYDRO AND POWER AUTHORITY
GEOLOGICAL MAP
HAT CREEK VALLEY
SCALE :
CONTOUR INTERVAL 50 FEET
(UP TO 4500 FEET)
100 FT INTERVAL ABOVE 4500 FT
1000m
500m
0
1000m
2000m
PLATE 3

0.5 km 0 1.0 km

SCALE

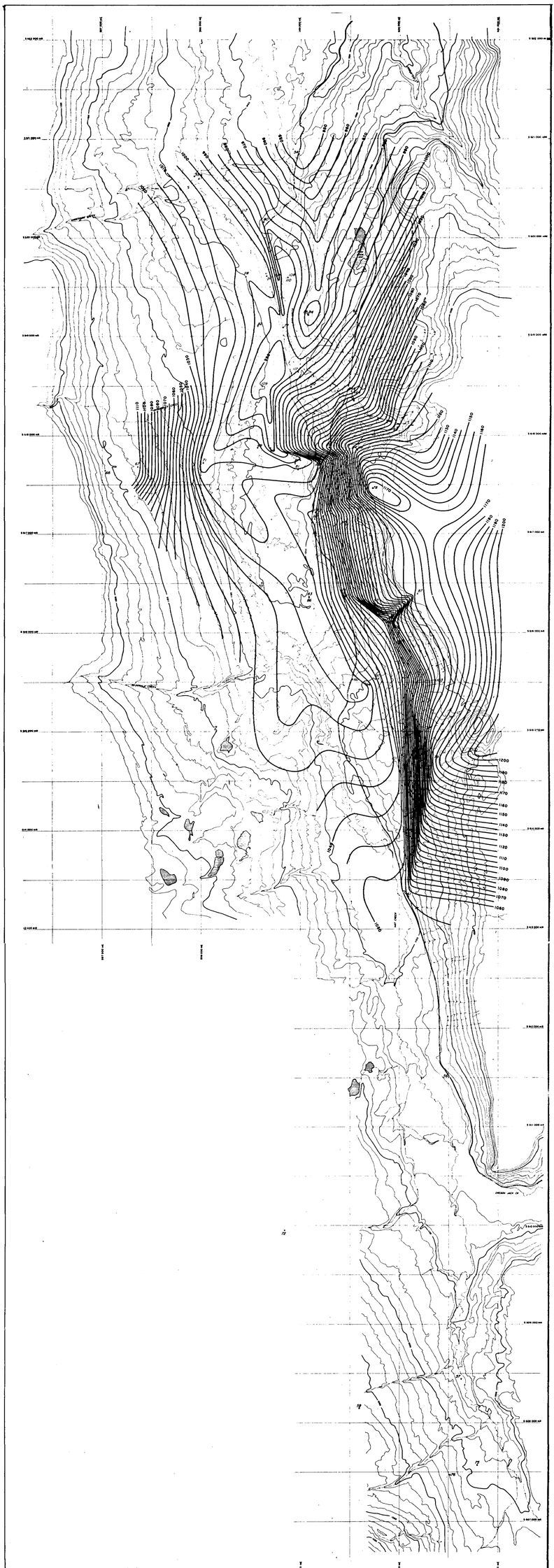
LEGEND

—1000— STRUCTURAL CONTOUR, TOP OF COAL

O[34] EXISTING DRILL HOLE

— — — FAULT

DES.	H. Kim	RECO			BRITISH COLUMBIA HYDRO AND POWER AUTHORITY
DWN	P.W.	APPD			HAT CREEK No. 2 DEPOSIT
CHKD		APPD			STRUCTURAL CONTOURS TOP OF COAL
INSP		APPD			
SUBD		DATE	APRIL, 1980		
MICROFILMED		DIST'N CODE		SCALE	DWG No. PLATE 4 R



LEGEND

1000 — BEDROCK ELEVATION

BEDROCK CONTOURS

DRILL HOLES

0.5 km 0 1.0 km

SCALE

DES.	M. KIM	PROJ.	
DRN.	P.W.	APVD.	
CHKD.		LONG.	
APP.		LONG.	
SURV.		DATE	APRIL, 1980
MICROFILMED		FILE No.	

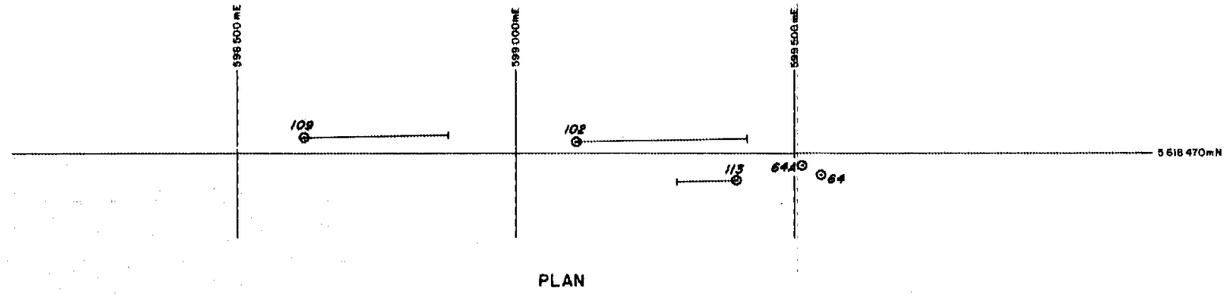
BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

HAT CREEK No. 2 DEPOSIT

CONTOURS - TOP OF BEDROCK

SCALE

DWG. No. PLATE 5



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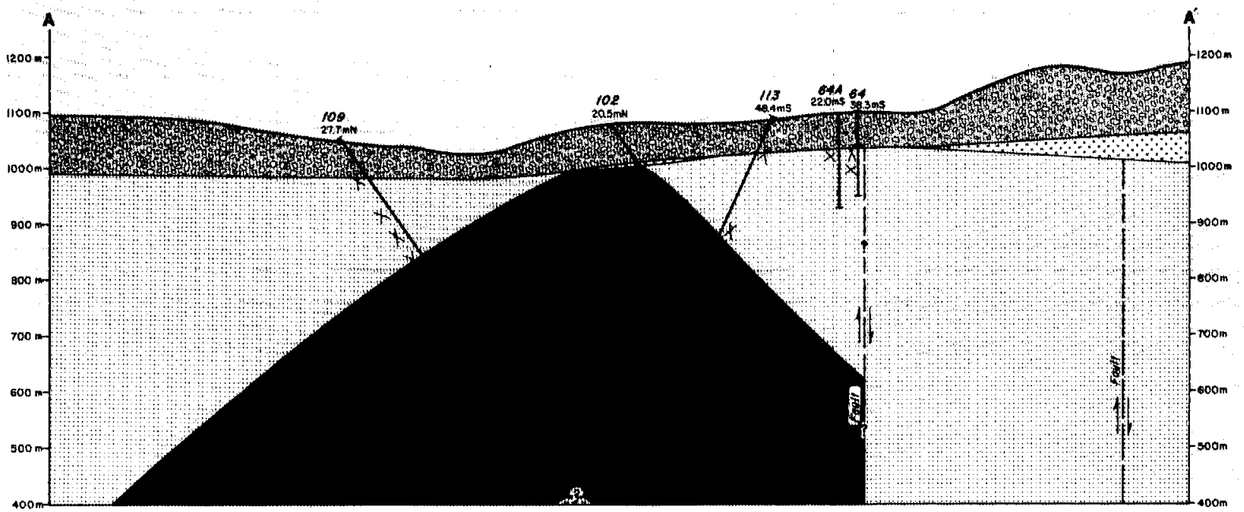


SECTION

LEGEND

- OVERBURDEN
- MIOCENE VOLCANICS
- BURNED ZONE
- MEDICINE CREEK FORMATION
- HAT CREEK FORMATION
- COLDWATER FORMATION

50 0 50 100 200 300 400 500

SCALE IN METERS

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

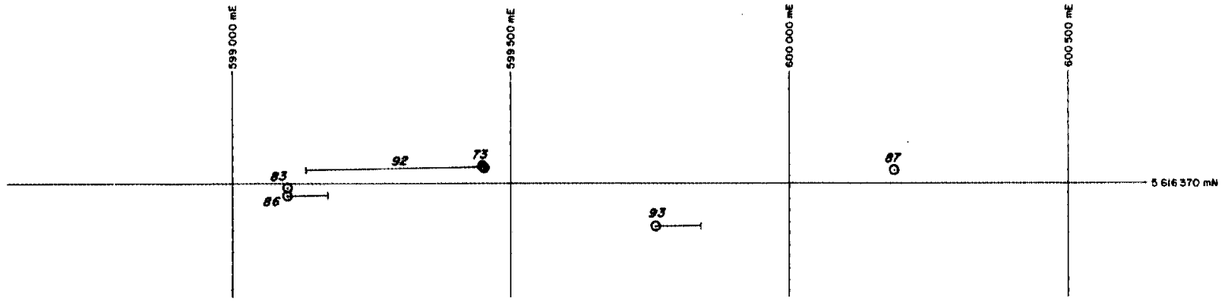
HAT CREEK PROJECT – MINING ENGINEERING SERVICES

No.2 DEPOSIT

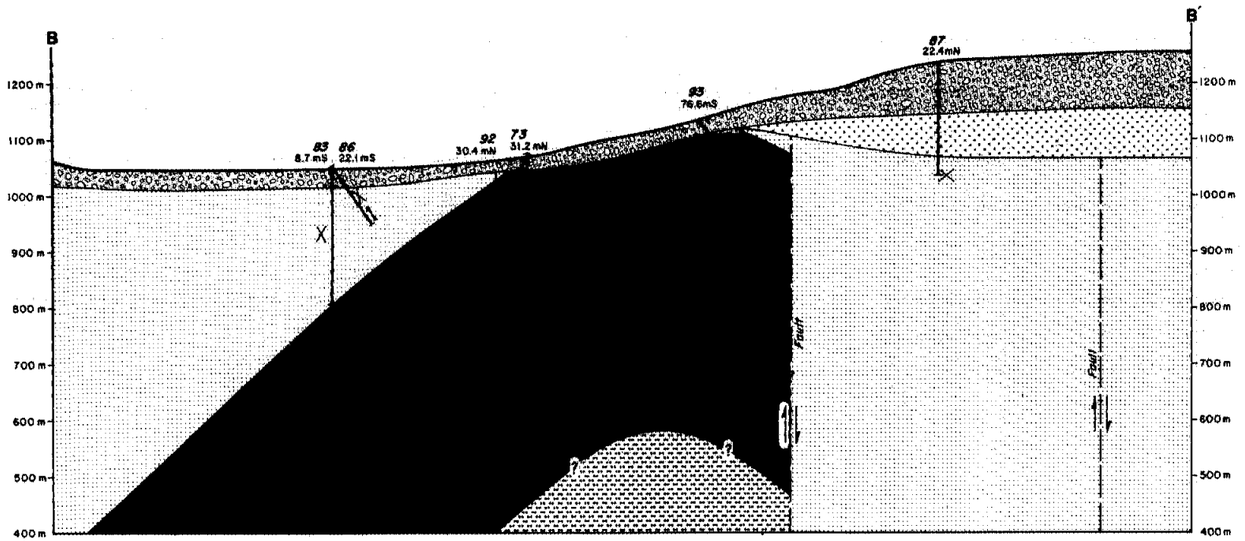
SECTION 5618470mN

DRAWN	DESIGN	APPROVED	DATE	DWG No	REVISION
	A.W. Penner	H.K. B.D.	MAR.1980	PLATE 6	

REV	DWN	APPD	DATE	DESCRIPTION



PLAN



SECTION

LEGEND

- OVERBURDEN
- MIOCENE VOLCANICS
- BURNED ZONE
- MEDICINE CREEK FORMATION
- HAT CREEK FORMATION
- COLDWATER FORMATION

50 0 100 200 300 400 500

SCALE IN METERS

REV	DWN	APPD	DATE	DESCRIPTION

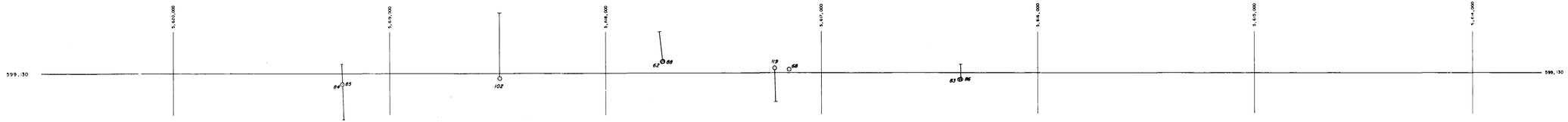
BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

HAT CREEK PROJECT – MINING ENGINEERING SERVICES

No. 2 DEPOSIT

SECTION 5 616 370mN

DRAWN	DESIGN	APPROVED	DATE	DWG No	REVISION
	A. W. Penner	B. Duff	MAR. 1980	PLATE 7	



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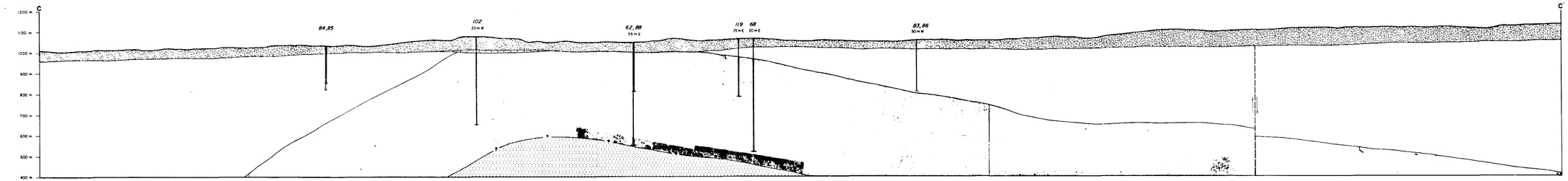


SECTION

SCALE IN METRES

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY					
HAT CREEK PROJECT — MINING ENGINEERING SERVICES					
No 2 DEPOSIT					
SECTION 599 130 E					
DRAWN	DESIGN	APPROVED	DATE	DWG No PLATE 8	REVISION
			(MAY 1986)		

—10— Gravity Contours (milligals)

N

2000 0 2000 4000 FEET

Drilling periods :-
1925 - DDH Nº 1 to 7
1957 - DDH Nº 8 to 15
1959 - DDH Nº 16 to 22
1974 - DDH Nº 23 to 48, R1 & R2
1975 - DDH Nº 49 to 110 , R3 & R4
1976 - DDH Nº 111 onwards.

DOLMAGE CAMPBELL & ASSOCIATES LTD CONSULTANTS
VANCOUVER, CANADA

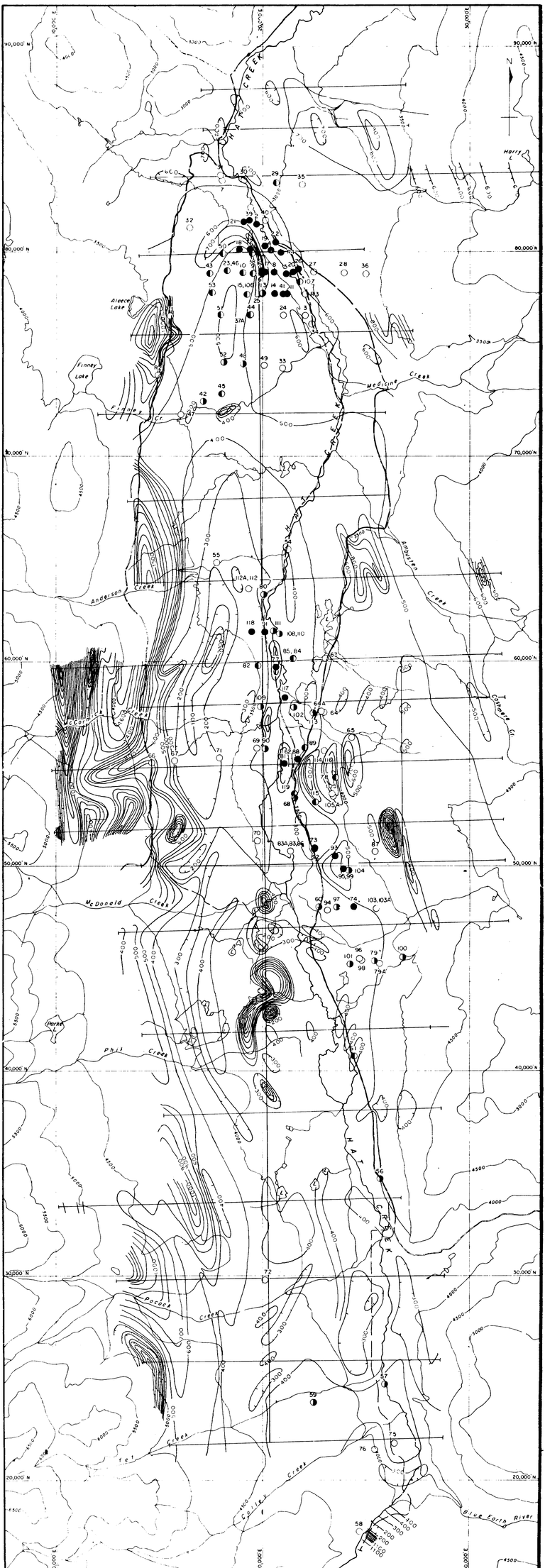
B.C. HYDRO & POWER AUTHORITY
VANCOUVER, CANADA

HAT CREEK PROJECT

DRILL-HOLE LOCATIONS
RESIDUAL GRAVITY

SCALE : 1" = 2000' | MARCH 1976 | FIG.

PLATE 9



Drilling periods - 1925 - DDH Nº 1 to 7
1957 - DDH Nº 8 to 15
1959 - DDH Nº 16 to 22
1974 - DDH Nº 23 to 48, R1 & R2
1975 - DDH Nº 49 to 110 , R3 & R4
1976 - DDH Nº 111 onwards

SOLMAGE CAMPBELL & ASSOCIATES LTD CONSULTANTS
VANCOUVER, CANADA

B.C. HYDRO & POWER AUTHORITY
VANCOUVER, CANADA

HAT CREEK PROJECT

DRILL-HOLE LOCATIONS
TOTAL FIELD GROUND MAGNETOMETER SURVEY

SCALE 1" = 2000' | MARCH 1976 | FIG.

PLATE 10

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY SIDEWALL DENSILOG

FILE NO
COMPANY: DOLMAGE, CAMPBELL AND ASSOCIATES LTD.
WELL: 75-81
LOCATION: 55,015N 21,067E
FIELD: HAT CREEK
PROVINCE: BRITISH COLUMBIA
LSD / SEC / TWP / RGE / W__M
Other Services: GR, DENS, RES, CAL

Permanent Datum: GROUND LEVEL Elev. 3401
Log Measured from: TOP OF CASING 2 Ft. Above Perm. Datum
Well Depths Measured from: TOP OF CASING
K.B. / D.F. / G.L.

Run No.	ONE
Date	4/5 AUGUST
First Reading	1820
Last Reading	000
Footage Logged	1820
Depth Reached	1823
Depth Driller	1838
Casing Driller	93
Casing Logger	
Fluid Type	MUD
Fluid Level	24
Min. Diam.	3 1/8
Operating Time	6hr
Truck No.	102-SU2

Recorded By EDWARDS R. Witnessed By ROTZIEN

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV
1	1820	0	10								
1	1820	0	18	3	100	0	5	3	1000	2R	16.103

REMARKS: HOLE LOGGED THROUGH DRILL RODS 1820-93, THROUGH CASING 93-000. TOOL # 554, TOOL # 15

DDH 75 - 81

% Ash	kJ/kg	% Sul
59.02	9950	0.29
88.67	16812	0.70
31.09	18877	0.87
19.50	22694	0.62
34.28	17931	0.69
36.27	16903	1.07
29.94	19512	0.56
50.11	12386	0.41
35.09	17977	0.66
55.75	10326	0.30
44.33	15932	0.54
56.60	10108	0.40
36.97	16489	0.48
26.72	20494	0.57
55.36	10829	0.45
56.16	10475	0.35
32.86	18315	0.54
29.25	19622	0.55
59.79	9729	0.37
46.93	14090	0.70
60.16	9236	0.49
43.47	14635	0.48
74.64	5021	0.25
40.07	16316	0.70
57.27	10385	0.51
35.27	17575	1.08
58.06	9608	0.55
67.16	6812	0.35
57.84	10013	0.44
45.14	14402	0.57
46.23	13890	0.53
65.58	6187	0.26
39.99	16407	0.69
45.16	14546	0.66
47.83	12983	0.59
43.22	15139	0.62
54.30	11746	0.34
67.37	6405	0.22
71.09	5414	0.37
41.12	15867	0.62
32.51	19066	0.58
39.42	14456	0.94
38.60	16257	0.57
34.67	17847	0.62
44.57	14451	0.95
54.00	10788	0.43
40.27	16372	0.79
57.98	10073	1.74
63.57	7906	0.52
29.57	19724	0.90
71.66	5631	0.45
37.69	17407	0.69
62.10	8429	0.46
44.44	14544	0.65
68.99	6196	0.31
56.77	10348	0.54
59.23	10271	0.45
48.45	13423	0.71
57.25	10534	0.58
61.79	8548	0.38
74.92	3121	0.25
56.67	10599	0.64
84.52		
66.41	7454	0.35
73.30	4612	0.24
71.80	5007	0.69
57.57	9457	0.40

LEGEND

- W1 Carbonaceous to coaly claystone or shale
- W2 Claystone, siltstone
- W3 Sandstone, conglomerate
- W4 Petrified wood
- W5 Ironstone, siderite
- W6 Carbonate, marl
- W7 Ash
- C1 Coal 18.0 mJ/kg (≥23.2 API and ≤1.47 gram/cc on gamma and density logs.)
- C2 Coal 18.0 – 9.3 mJ/kg (23.2 – 38 API and 1.47 – 1.62 gram/cc on gamma and density logs.)

B.C. HYDRO & POWER AUTHORITY
VANCOUVER, CANADA

HAT CREEK COAL PROJECT
No. 2 DEPOSIT

GAMMA RAY
SIDEWALL DENSILOG

BORE HOLE No. 75-81

Scale: 1" = 20' | May 1980 | PLATE 11

LEGEND

- ● PROPOSED DRILL SITES
- —1000— DRILLING DEPTH TO CONFIRM THE BASE OF HAT CREEK COAL FORMATION
- — — — FAULT
- ○[40] EXISTING DRILL HOLES

0.5 km 0 0.2 0.4 0.6 0.8 1.0 km

SCALE

H. Kim			BRITISH COLUMBIA HYDRO AND POWER AUTHORITY
DWN P.W			HAT CREEK No.2 DEPOSIT
CHKD	APPD		PROPOSED DRILLING PLAN
INSP	APPD		
SUBD	DATE APR.1980		
MICROFILMED	DIST'N CODE	SCALE	DWG No. PLATE 12 R

APPENDIX I

List of Borehole Data

LIST OF BOREHOLE DATA
NO. 2 DEPOSIT

ABBREVIATIONS USED:

A.F.T.	- Ash Fusion Temperature	Gam.	- Gamma	S.	- Sulphur
Ash Min.	- Ash Mineralogy	Moist.	- Moisture	S.G.	- Specific Gravity
B.T.U.	- British Thermal Units	Neu.	- Neutron	Spec. Tests	- Special Tests
Cal.	- Caliper	Petr.	- Petrography	Th. V.	- Thermal Value
Den.	- Density	Ply.	- Palynology	Tr. El.	- Trace Elements
Env.	- Environmental	Prox.	- Proximate Analysis	Ult.	- Ultimate Analysis
Foc. Beam	- Focus Beam	Res.	- Resistance	Wash T.	- Wash Test

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
75-64	-	Written (D.C.)	-
75-65	-	Written (D.C.)	-
75-66	-	Written (D.C.)	-
75-67	Den.-Cal. (K.E.) Gam.-Den. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	-
75-68	Den.-Cal. (K.E.) Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab.(Prox., B.T.U., S., Ult., X-ray, S.G., spec. tests, A.F.T.), Acres (Env.), Church (Ply)
75-69	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (S.G.)
75-70	Gam.-Res. (K.E.) Den.-Cal. (K.E.)	Written (D.C.)	Loring Lab. (S.G.), Church (Ply)
75-71	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (S.G.)
75-72	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (S.G.), Church (Ply)
75-73	Gam.-Res. (K.E.) Den.-Cal. (K.E.) Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., Ult., X-ray, S.G., spec. tests, A.F.T.), Church (Ply, Petr.)

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
75-74	Gam.-Res. (K.E.) Den.-Cat. (K.E.) Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (Prox., B.T.U., S., spec. tests, Ult., A.F.T., S-ray), Acres (Env.), Church (Ply), S.G.
75-75	-	Graphic (D.C.) Written (D.C.)	S.G.
75-76	Gam.-Den. (K.E.) Den.-Cal. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	S.G.
75-77	Gam.-Den. (K.E.) Den.-Cal. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray, S.G.),Acres (Env.)
75-78	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, X-ray, S.G.)
75-79	Gam.-Den. (K.E.)	Written (D.C.)	General Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-79A	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-80	Gam.-Den. (K.E.)	Graphic (D.C.) Written (D.C.)	Loring Lab (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
75-81	Gam.-Res. (K.E.) Den.-Cal. (K.E.) Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray, S.G.), Acres (Env.)
75-82	Gam.-Den. (K.E.)	Graphic (D.C.) Written (D.C.)	Loring Lab. (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
75-83	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-83A	-	Written (D.C.)	S.G.
75-84	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-85	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-86	-	Written (D.C.)	S.G.
75-87	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-88	Gam.-Den. (K.E.) Den.-Cal. (K.E.)	Written (D.C.)	General Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
75-89	Gam.-Res. (K.E.) Gam.-Den. (K.E.) Den.-Cal. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-90	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T.,X-ray), S.G.
75-91	Gam.-Den. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	Loring Lab.(Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
75-92	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray) Acres (Env.), S.G.
75-93	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-94	-	Written (D.C.)	-
75-95	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab.(Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
75-96	-	Written (D.C.)	S.G.
75-97	Gam.-Den. (K.F.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-98	-	Written (D.C.)	S.G.
75-98A	-	Written (D.C.)	-
75-99	-	Written (D.C.)	S.G.
75-100	Gam.-Den. (K.E.)	Written (D.C.)	General Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
75-101	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab. (Prox. B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
75-102	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
75-103	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-103A	-	Written (D.C.)	S.G.
75-104	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-105	Gam.-Den. (K.E.)	Written (D.C.)	-
75-105A	Gam.-Den. (K.E.)	Written (D.C.)	1
75-108	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
75-109	Gam.-Den. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
75-110	Gam.-Den. (K.E.)	Written (D.C.)	General Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.
76-111	Gam.-Den. (K.E.)	Written (D.C.)	Loring Dab (Prox. B.T.U., S., spec. tests., Ult., A.F.T., X-ray.
76-112	Gam.-Den. (K.E.) Gam.-Res. (K.E.)	Written (D.C.)	-
75-112A	-	Written (D.C.)	1
19,319	-	Written (D.C.)	
75-113	Gam.- Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray) Acress (Env.)

HOLE NO.	GEOPHYSICAL LOGGING	GEOLOGICAL LOGGING	PHYSICAL AND CHEMICAL ANALYSIS
76-114	-	Written (D.C.)	S.G.
76-115	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab (Prox., B.T.U., S., spec. tests, Ult., X-ray, A.F.T.), S.G.
76-116	Gam.-Den. (K.E.)	Written (D.C.)	S.G.
76-117	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
76-118	Gam.-Den. (K.E.)	Written (D.C.)	Commercial Testing (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), Acres (Env.), S.G.
76-119	Gam.-Den. (K.E.)	Written (D.C.)	Loring Lab (Prox., B.T.U., S., spec. tests, Ult., A.F.T., X-ray), S.G.

APPENDIX II

Summary of Boreholes

DRILL HOLE#	COLLAR DATA (U T M)				DIP TESTS			DRILLED THICKNESS		TOTAL DEPTH M	DEPTH TO:				ELEVATIONS M			
	COORDINATES	REFERENCE ELEVATION	DIP	AZI	DEPTH	DIP	AZI	O.B. M	B.R. M		TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	TOP OF COAL	BASE OF COAL	TOP OF COLDWATER	BOTTOM OF HOLE
75-0054	5 620 847.3 N 598 982.7 E	965.0	-90.0		304.8	-86.0		10.6	294.2	304.8	10.7							660.7
75-0055	5 620 626.1 N 597 924.2 E	1031.8	-90.0		304.8	-89.0		28.3	276.5	304.8	28.3							727.0
75-0056	5 611 513.7 N 600 502.3 E	1126.7	-90.0					128.6	51.2	179.8	128.6	128.6	179.8		998.1	946.9		946.9
75-0057	5 608 446.0 N 600 630.9 E	1163.3	-90.0		465.7	-87.0		112.4	359.4	471.8	112.5	112.5	269.1		1050.8	691.5		691.5
75-0058	5 606 245.8 N 600 301.4 E	1273.3	-90.0					48.7	147.2	195.9	48.8	269.1	471.8					1076.4
75-0059	5 608 153.6 N 599 595.7 E	1267.2	-90.0		326.1	-86.0		12.1	441.4	453.5	12.2	252.8	444.0		1014.4	823.7		814.3
75-0060	5 615 530.0 N 599 534.2 E	1093.3	-90.0		319.4 592.5	-84.5 -80.5		77.1	516.6	593.7	77.1	258.9	593.8		853.4	507.5		507.5
75-0061	5 613 324.9 N 600 089.8 E	1103.6	-90.0		316.0	-89.0		48.7	353.6	402.3	48.8	193.9	402.3		909.7	701.3		701.3
75-0062	5 617 736.2 N 599 181.8 E	1057.6	-90.0		313.3 496.8	-87.5 -84.5		45.7	465.7	511.4	45.7	45.7	511.5		1011.9	548.6		548.6
75-0063	5 619 232.6 N 599 558.2 E	1075.3	-90.0		304.8	-80.5		76.2	228.6	304.8	76.2							774.8
75-0064	5 618 448.0 N 599 516.0 E	1097.9	-90.0					58.5	108.8	167.3	64.0							930.6
75-0065	5 618 085.3 N 599 981.9 E	1152.9	-90.0					45.7	179.8	225.5	45.7			155.1?			997.8?	927.4

DRILL HOLE#	COLLAR DATA (U T M) COORDINATES	REFERENCE ELEVATION	DIP	AZI	DIP TESTS DEPTH	DIP	AZI	DRILLED THICKNESS O.B. M	B.R. M	TOTAL DEPTH M	DEPTH TO: TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	ELEVATIONS M TOP OF COAL	BASE OF COAL	TOP OF COLDWATER	BOTTOM OF HOLE
75-0066	5 617 640.2 N 597 028.7 E	1160.6	-90.0					33.8	7.3	41.1	33.8							1119.5
75-0067	5 617 679.9 N 597 357.4 E	1136.0	-90.0					21.6	196.3	217.9	24.4			36.3?			1099.7	918.1
75-0068	5 617 148.2 N 599 147.6 E	1062.8	-90.0		304.8	-80.5		42.6	519.1	561.7	42.6	93.9	561.7		969.1	517.8		517.8
75-0069	5 617 877.6 N 598 573.3 E	1040.6	-90.0		332.2	-80.5		33.5	374.3	407.8	33.5							640.3
75-0070	5 616 502.1 N 598 614.6 E	1053.4	-90.0		332.2	-84.5		30.4	359.7	390.1	30.5							664.8
75-0071	5 617 722.4 N 598 019.4 E	1086.9	-90.0		295.6	-84.5		77.7	227.4	305.1	77.7							783.0
75-0072	5 609 952.8 N 598 833.8 E	1269.3	-90.0					52.4	217.6	270.0	52.4			204.2?			1065.1?	999.3
75-0073	5 616 401.2 N 599 450.0 E	1075.6	-90.0		310.5 586.7	-86.0 -86.0		38.1	553.2	591.3	25.5	25.5	583.5	583.5?	1050.1	493.5	493.5?	485.7
75-0074	5 615 567.0 N 600 055.5 E	1146.9	-90.0		335.2 576.9	-76.5 -76.5		83.8	596.5	680.3	83.8	83.8	680.3		1063.1	485.4		485.4
75-0075	5 607 573.2 N 600 792.8 E	1199.8	-90.0					70.1	51.2	121.3	70.1							1078.5
75-0076	5 607 470.4 N 600 514.4 E	1223.3	-90.0		306.9	-86.5		25.2	371.0	396.2	25.3							827.7
75-0077	5 619 093.6 N 598 829.7 E	1021.1	-90.0		304.8 562.6	-76.5 -86.0		29.5	533.1	562.6	29.6	29.6	562.7		991.5	465.4		465.4

DRILL HOLE#	COLLAR DATA (U T M) COORDINATES	REFERENCE ELEVATION	DIP	AZI	DIP TESTS DEPTH	DIP	AZI	DRILLED THICKNESS O.B. M	B.R. M	TOTAL DEPTH M	DEPTH TO: TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	ELEVATIONS M TOP OF COAL	BASE OF COAL	TOP COLDWATER	BOTTOM OF HOLE
75-0078	5 617 465.1 N 599 736.4 E	1220.0	-90.0					39.6	180.7	220.3	41.8	214.0	220.3		1006.0	999.7		999.7
75-0079	5 614 711.2 600 375.0 E	1188.0	-90.0		304.8 590.0	-86.0 -83.0		10.0	583.7	593.7	10.1	199.3	593.8		989.0	597.6		597.6
75-0080	5 620 155.9 N 598 632.8 E	998.3	-90.0		304.8 534.0	-87.5 -73.0		15.2	518.8	534.0	15.2	357.2	534.0		641.6	482.5		482.5
75-0081	5 617 655.3 N 598 982.5 E	1037.2	-90.0		304.8 551.0	-86.0 -82.0		26.2	534.0	560.2	25.9	25.9	560.2		1011.3	481.1		481.1
75-0082	5 619 109.4 N 598 570.7 E	1060.1	-90.0		304.8 526.3	-80.5 -80.5		55.4	470.9	526.3	61.0	143.9	436.6	436.6	916.2	629.5	629.5	541.0
75-0083	5 616 361.3 N 599 098.5 E	1054.6	-90.0		244.4	-84.5		37.1	209.1	246.2	37.2							809.3
75-0084	5 619 218.6 N 599 076.3 E	1022.6	-60.0	88.9	152.4	-60.0		60.9	128.3	189.2	61.0							858.8
75-0085	5 619 218.6 N 599 076.3 E	1022.6	-55.0	268.9	152.4 271.8	-52.0 -47.5		65.2	206.6	271.8	65.2	228.6	271.9		838.7	820.6		820.6
75-0086	5 616 347.9 N 599 098.7 E	1055.2	-55.0	88.9				51.8	74.3	126.1	51.8							951.9
75-0087	5 616 392.4 N 600 188.6 E	1240.4	-90.0		182.8	-86.0		89.0	111.8	200.8	89.0							1040.1
75-0088	5 617 734.1 N 599 183.1 E	1057.6	-60.0	86.9	152.4 274.3	-64.5 -62.0		15.2	264.6	279.8	15.2	15.2	279.8		1044.4	810.5		810.5
75-0089	5 617 879.9 N 599 287.3 E	1076.7	-55.0	88.9	152.4	-55.0			217.3	217.3	0.9	39.6	217.3		1-46.3	900.7		900.7

DRILL HOLE#	COLLAR DATA (U T M) COORDINATES	REFERENCE ELEVATION	DIP	AZI	DIP TESTS DEPTH	DIP	AZI	DRILLED THICKNESS O.B. M	B.R. M	TOTAL DEPTH M	DEPTH TO: TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	ELEVATIONS M TOP OF COAL	BASE OF COAL	TOP COLDWATER	BOTTOM OF HOLE
75-0090	5 617 874.6 N 598 702.2 E	1038.1	-55.0	88.9	182.8 304.8 457.2	-56.0 -56.0 -53.0		55.1	404.5	459.6	54.6	318.5	459.6		774.1	671.1		671.1
75-0091	5 619 610.9 N 598 662.6 E	1010.7	-90.0					7.6	286.5	294.1	4.3	4.3	294.1		1006.4	716.6		716.6
75-0092	5 616 400.4 N 599 453.1 E	1075.3	-55.0	289.9	152.4 304.8 457.2	-54.0 -58.5 -60.0		29.5	528.8	558.3	29.6	29.6	517.9	517.9	1051.1	626.8	626.8	591.8
75-0093	5 616 293.4 E 599 759.9 E	1134.4	-55.0	88.9	141.1	-54.0		24.3	116.8	141.1	24.4	32.9	130.6		1107.4	1028.7		1020.3
75-0094	5 615 483.3 N 599 660.0 E	1103.6	-65.0	88.9				95.4		95.4	95.4(Not reached Bedrock)							1017.1
75-0095	5 616 107.7 N 599 882.8 E	1133.5	-75.0	268.9	152.4 304.8 457.2	-69.5 -70.0 -69.0		68.2	391.1	459.3	65.5	65.5	459.3		1071.9	704.7		704.7
75-0096	5 614 776.3 N 600 145.5 E	1154.8	-90.0					64.6	36.5	101.1	64.6							1053.7
75-0097	5 615 534.0 N 599 791.6 E	1104.5	-90.0		304.8	-82.5		86.8	372.8	459.6	71.6	134.4	459.6		970.3	649.4		649.4
75-0098	5 614 748.6 N 600 177.7 E	1166.4	-85.0					74.6	49.7	124.3	74.7							1042.6
75-0099	5 616 107.8 N 599 885.9 E	1133.5	-55.0	88.9				68.5	21.1	89.6	68.6	68.6	89.6					1060.1

DRILL HOLE#	COLLAR DATA (U T M)				DIP TESTS			DRILLED THICKNESS		TOTAL DEPTH M	DEPTH TO:				ELEVATIONS M			
	COORDINATES	REFERENCE ELEVATION	DIP	AZI	DEPTH	DIP	AZI	O.B. M	B.R. M		TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	TOP OF COAL	BASE OF COAL	TOP COLDWATER	BOTTOM OF HOLE
75-0100	5 614 801.3 N 600 784.7 E	1207.5	-90.0		304.8 457.2	-89.0 -84.0		1.5	457.8	459.3	1.5	317.8	459.3		889.7	750.7		750.7
75-0101	5 614 697.1 N 600 000.4 E	113..6	-90.0		304.8 457.2	-86.5 -85.0		99.6	360.0	459.6	99.7	164.9	459.6		970.8	677.7		677.7
75-0102	5 618 490.5 N 599 107.2 E	1075.3	-55.0	88.9	152.4 304.8 457.2	-55.0 -59.0 -53.0		74.9	457.5	532.4	78.1	90.6	532.5		1001.1	650.1		650.1
75-0103	5 615 516.8 N 600 367.3 E	1182.5	-90.0		304.8	-87.0		45.7	320.6	366.3	45.7							816.7
75-0104	5 616 081.6 N 599 950.7 E	1143.2	-55.0	88.9	152.4	-57.5		27.4	186.5	213.9	27.4	27.4?	69.0?		1120.1?	1085.0?		962.8
75-0105	5 617 218.8 N 599 686.5 E	1184.7	-90.0					57.9	214.8	272.7	57.9							912.0
75-0108	5 619 593.3 N 598 872.3 E	1012.0	-55.0	88.9	152.4 304.8	-54.5 -49.0		18.8	286.0	304.8	18.9							782.0
75-0109	5 618 497.7 N 598 618.5 E	1053.7	-55.0	88.9	152.4 304.8 451.7	-54.0 -53.5 -51.5		83.5	368.2	451.7	83.5	254.5	451.7		847.8	697.8		697.8
75-0110	5 619 593.3 N 598 872.0 E	1011.7	-90.0		304.8 457.2	-89.0 -89.5		13.4	445.9	459.3	12.5	307.8	459.3		703.9	552.4		552.4
76-0111	5 619 621.6 N 598 788.9 E	1011.4	-55.0	268.9	212.7	-57.0		24.3	188.4	212.7	27.4	141.7	212.7		892.6	833.0		833.0
76-0112	5 620 248.7 N 598 400.6 E	1022.9	-90.0		230.7	-83.0		27.4	206.3	233.7	27.4							790.9

DRILL HOLE#	COLLAR DATA (U T M) COORDINATES	REFERENCE ELEVATION	DIP	AZI	DIP TESTS DEPTH	DIP	AZI	DRILLED THICKNESS O.B. M	B.R. M	TOTAL DEPTH M	DEPTH TO: TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	ELEVATIONS M TOP OF COAL	BASE OF COAL	TOP COLDWATER	BOTTOM OF HOLE
76-0113	5 618 421.6 N 599 394.6 E	1091.5	-65.0	268.9				68.5	191.4	259.9	68.6	218.1	260.0		893.8	856.0		856.0
76-0114	5 617 851.3 N 599 581.0 E	1173.4	-80.0	268.9				47.2	69.2	116.4	47.2							1058.8
76-0115	5 617 092.5 N 599 456.4 E	1117.7	-90.0		304.8	-82.0		32.0	274.9	306.9	32.0	94.3	306.9		1024.3	813.8		813.8
76-0116	5 617 851.3 N 599 581.3 E	1173.4	-90.0					48.7	102.1	150.8	48.8							1022.6
76-0117	5 618 640.4 N 598 976.3 E	1038.5	-90.0		214.8	-90.0		44.5	170.3	214.8	43.7	43.7	214.8		994.8	823.7		823.7
76-0118	5 619 602.7 N 598 452.5 E	1050.7	-90.0		268.5	-87.0		48.9	254.6	303.5	48.9	48.9	303.5		1001.8	747.6		747.6
76-0119	5 617 216.9 N 599 152.3 E	1062.5	-60.0	268.9	152.4 304.8	-62.0 -66.0		42.6	264.3	306.9	42.7	115.2	306.9		960.8	784.4		784.4
75-64A	5 618 431.6 N 599 550.5 E	1101.8	-90.0					64.0	84.4	148.4								
75-79A	5 614 716.5 N 600 443.8 E	1194.4	-90.0					3.9	86.6	90.5								
75-83A	5 616 361.3 N 599 098.5 E	1054.6	-90.0					37.1	42.7	79.8								
75-98A	5 614 747.7 N 600 177.7 E	1166.4	-90.0					78.0		78.0								

DRILL HOLE#	COLLAR DATA (U T M) COORDINATES	REFERENCE ELEVATION	DIP	AZI	DIP TESTS DEPTH	DIP	AZI	DRILLED THICKNESS O.B. M	B.R. M	TOTAL DEPTH M	DEPTH TO: TOP OF BEDROCK M	TOP OF COAL M	BASE COAL M	TOP OF COLDWATER M	ELEVATIONS M TOP OF COAL	BASE OF COAL	TOP OF COLDWATER	BOTTOM OF HOLE
75-103A	5 615 516.8 N 600 365.8 E	1182.5	-90.0					73.1	130.2	203.3								
75-105A	5 617 180.1 N 599 700.4 E	1182.0	-90.0					48.7	47.3	96.0								
76-112A	5 620 248.7 N 598 401.9 E	1022.9	-90.0					27.4	38.7	66.1								
								3,410.5										
									18,386.3									
										21,796.8								

APPENDIX IIIA

Physical and Chemical Analyses

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0056

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS					FUSION ANALYSIS				MINERAL ANALYSIS							
	LENGTH										OXYGEN BY	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO		GRIND
NO.	FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S DIFF.	ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3	UND+ER	INDEX
2001U	0.6	128.6																				
1U	128.6	133.1	72.53	16.68	10.79	5203					.29											
5U	133.1	135.3	86.38																			
901U	135.3	143.5	72.53	16.68	10.79	5203					.29											
6U	143.5	150.5	85.82																			
2002U	150.5	166.7																				
2U	166.7	170.9	77.00	13.81	9.19	4296					.28											
2003U	170.9	172.5																				
3U	172.5	174.9	72.68	15.87	11.45	5352					.56											
7U	174.9	177.3	86.81																			
4U	177.3	179.8	51.75	24.66	23.59	11797					.86											

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0057

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.0	112.4																					
1U	112.4	119.4	35.57	34.79	29.64	16807					.31												
2U	119.4	127.1				8839					.37												
2002U	127.1	131.9	93.00																				
23U	131.9	135.6	84.72																				
2003U	135.6	159.1																					
3U	159.1	169.4	51.52	25.01	23.47	12281					.31												
24U	169.4	172.2	89.23																				
2004U	172.2	189.5																					
25U	189.5	192.0	84.46																				
2005U	192.0	195.0																					
901U	195.0	197.8	84.46																				
26U	197.8	205.7	87.75																				
27U	205.7	213.3	91.44																				
28U	213.3	216.4	90.35																				
2006U	216.4	227.9																					
29U	227.9	234.6	70.00																				
2007U	234.6	261.8																					
30U	261.8	269.1	84.72																				
4U	269.1	281.3	31.97	32.82	35.21	18591					.32												
1001C	269.1	319.2	41.29	30.19	28.52	14856	40.30	3.52	.99	.03	.32	13.55	1454 +1482	1459 +1482	1465 +1482	1471 +1482	50.00 1.29	31.10 .98	1.11 .84	6.78 .39	4.93 2.01 +	.57	39
5U	281.3	293.5	31.78	33.00	35.22	18538					.37												
6U	293.5	304.1	42.78	29.41	27.81	14942					.15												
7U	304.1	308.3	69.02	22.12	8.86	5031					.32												
8U	308.3	319.2	44.82	29.61	25.57	14297					.77												
31U	319.2	324.6	89.05																				
9U	324.6	333.7	57.06	24.53	18.41	10850					.39												
1002C	324.6	344.4	48.64	25.71	25.65	12767	33.67	3.02	.76	.03	.46	13.42	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	53.92 1.21	31.10 1.08	1.13 1.00	6.40 .30	1.79 1.30 +	.77	44
10U	333.7	344.4	35.46	31.51	33.03	17726					.24												
32U	344.4	346.2	88.31																				
11U	346.2	352.0	66.52	19.91	13.57	7280					.35												
1101C	346.2	352.0	48.64	25.71	25.65	12767	33.67	3.02	.76	.03	.46	13.42	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	53.92 1.21	31.10 1.08	1.13 1.00	6.40 .30	1.79 1.30 +	.77	44
33U	352.0	353.5	87.41																				
34U	353.5	358.4	85.69																				
2008U	358.4	358.9																					
12U	358.9	366.9	65.65	20.80	13.55	7301					.30												
1102C	358.9	397.7	48.64	25.71	25.65	12767	33.67	3.02	.76	.03	.46	13.42	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	53.92 1.21	31.10 1.08	1.13 1.00	6.40 .30	1.79 1.30 +	.77	44
13U	366.9	379.1	43.37	30.21	26.42	14821					.52												
14U	379.1	383.7	33.60	31.36	35.04	18156					.56												
15U	383.7	390.7	53.93	24.80	21.27	11025					.38												
16U	390.7	397.7	38.00	29.25	32.75	17105					.46												
35U	397.7	400.5	86.13																				
17U	400.5	407.5	39.03	30.29	30.68	16561					.80												
1003C	400.5	463.2	28.10	34.90	37.00	19568	50.68	4.09	1.12	.01	.63	15.37	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	50.95 1.28	32.36 1.47	1.10 .81	7.09 .20	2.46 2.11 +	.17	32

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0057

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
18U	407.5	419.7	19.09	37.03	43.88	23318					.56												
19U	419.7	431.9	23.38	37.87	38.75	21908					.51												
20U	431.9	444.0	36.75	31.33	31.92	17340					.73												
21U	444.0	453.5	24.56	33.93	41.51	21424					.38												
22U	453.5	463.2	31.72	33.40	34.88	18833					.56												
2009U	463.2	471.8																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0059

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
2001U	0.4	12.1																													
2002U	12.1	253.2																													
1U	253.2	258.1	32.77	35.81	31.42	18987					.50																				
2U	258.1	267.0	22.08	39.96	37.96	21389					.44																				
3U	267.0	271.5	36.05	34.83	29.12	15984					.32																				
2003U	271.5	287.4																													
59U	287.4	288.9	83.20																												
4U	288.9	293.9	31.55	35.51	32.94	18442					.36																				
5U	293.9	299.1	65.67	19.44	14.89	6410					.28																				
2004U	299.1	314.8																													
6U	314.8	319.4	84.26																												
2005U	319.4	413.6																													
7U	413.6	423.6	28.46	35.47	36.07	19947					.42																				
8U	423.6	433.8	56.13	23.05	20.82	10606					.32																				
11U	433.8	435.7	84.78																												
2006U	435.7	438.3																													
9U	438.3	444.0	51.68	24.50	23.82	12327					.24																				
12U	444.0	448.6	87.84																												
2007U	448.6	453.5																													

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0060

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO / MGO	NA2O	K2O	P2O5	SO3 / UND+ER	GRIND INDEX
2001U	0.3	77.1																								
2002U	77.1	258.7																								
36U	258.7	260.2	84.32																							
1U	260.2	264.7	81.92																							
2U	264.7	270.5	85.88																							
3U	270.5	278.2	24.04	38.04	37.92	21262					.88															
1001C	270.5	330.4	34.37	32.79	32.84	17598	45.31	3.82	1.37	.04	.60	14.49	1448 / +1482	1454 / +1482	1462 / +1482	1471 / +1482	48.02	30.79	1.12	10.95	3.11 / 1.97 +	.06				41
4U	278.2	287.4	36.46	33.23	30.31	16891					.40															
5U	287.4	291.8	28.45	36.94	34.61	19843					.84															
6U	291.8	300.8	31.16	37.05	31.79	18312					.50															
7U	300.8	310.2	30.32	35.25	34.43	19301					.51															
8U	310.2	319.4	36.05	34.19	29.76	16533					.50															
9U	319.4	326.4	32.55	33.25	34.20	18603					.56															
10U	326.4	330.4	67.66	20.03	12.31	6533					.25															
11U	330.4	337.7	80.66																							
12U	337.7	345.0	68.95	20.84	10.21	6259					.23															
1002C	337.7	369.8	52.93	25.37	21.70	11353	30.71	2.97	.79	.02	.52	12.06	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.78	30.39	1.14	7.45	1.67 / .94 +	.30				54
13U	345.0	352.6	46.73	29.22	24.05	13879					.45															
14U	352.6	357.9	43.38	29.40	27.22	14528					.71															
15U	357.9	362.4	63.17	22.82	14.01	7540					.37															
16U	362.4	369.8	40.82	30.72	28.46	15651					.57															
37U	369.8	373.3	82.81																							
17U	373.3	380.2	46.14	31.28	22.58	13379					.48															
1101C	373.5	380.2	52.93	25.37	21.70	11353	30.71	2.97	.79	.02	.52	12.06	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.78	30.39	1.14	7.45	1.67 / .94 +	.30				54
38U	380.2	382.8	84.47																							
18U	382.8	387.8	41.01	31.52	27.47	15984					.53															
1102C	382.8	400.2	52.93	25.37	21.70	11353	30.71	2.97	.79	.02	.52	12.06	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.78	30.39	1.14	7.45	1.67 / .94 +	.30				54
19U	387.8	400.2	57.03	25.62	17.35	10578					.42															
20U	400.2	412.3	49.12	28.50	22.38	12688					.57															
1003C	400.2	429.9	56.04	25.29	18.67	10446	28.21	2.72	1.02	.02	.53	11.46	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.92	30.96	1.13	7.28	1.68 / 1.00 +	.07				57
21U	412.3	424.5	53.03	26.40	20.57	11474					.50															
22U	424.5	429.9	64.53	19.45	16.02	7105					.42															
39U	429.9	433.4	85.70																							
23U	433.4	443.0	72.43																							
24U	443.0	452.9	58.95	24.06	16.99	9559					.50															
1103C	443.0	460.8	56.04	25.29	18.67	10446	28.21	2.72	1.02	.02	.53	11.46	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.92	30.96	1.13	7.28	1.68 / 1.00 +	.07				57
25U	452.9	460.8	54.67	21.91	23.42	11420					.38															
26U	460.8	464.0	72.92																							
27U	464.0	471.8	63.09	23.35	13.56	7959					.39															
1104C	464.0	471.8	56.04	25.29	18.67	10446	28.21	2.72	1.02	.02	.53	11.46	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	53.92	30.96	1.13	7.28	1.68 / 1.00 +	.07				57
28U	471.8	477.6	49.03	27.18	23.79	12911					.80															
29U	477.6	481.5	85.39																							

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0060

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
30U	481.5	484.6	59.59	25.07	15.34	8783					.55												
40U	484.6	488.8	83.96																				
31U	488.8	493.6	63.94	22.68	13.38	7696					.35												
41U	493.6	498.0	89.75																				
32U	498.0	502.3	72.36																				
42U	502.3	507.1	80.95																				
43U	507.1	518.1	86.25																				
2003U	518.1	523.9																					
44U	523.9	525.1	54.78	43.20	2.02	1495					.22												
33U	525.1	532.9	76.30																				
901U	532.9	534.0	54.78	43.20	2.02	1495					.22												
903U	534.0	534.6	76.30																				
45U	534.6	540.4	87.27																				
46U	540.4	543.4	79.09																				
47U	543.4	550.7	84.56																				
48U	550.7	556.8	86.48																				
49U	556.8	565.2	84.19																				
34U	565.2	567.5	69.08	18.49	12.43	6294					.27												
50U	567.5	569.5	82.54																				
902U	569.5	573.3	69.08	18.49	12.43	6294					.27												
904U	573.3	573.6	82.54																				
2004U	573.6	574.8																					
51U	574.8	578.9	82.95																				
2005U	578.9	582.1																					
52U	582.1	585.2	82.11																				
53U	585.2	588.5	62.07	33.69	4.24	3556					.14												
35U	588.5	593.7	65.16	20.54	14.30	7501					.22												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0061

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	1.5	48.7																					
2002U	48.7	191.1																					
20U	191.1	193.8	83.05																				
1U	193.8	200.5	74.47																				
2U	200.5	206.3	46.89	30.14	22.97	13060					.39												
1001C	200.5	242.3	32.98	33.62	33.40	18087	47.15	3.81	1.40	.02	.45	14.19	1457 +1482	1459 +1482	1462 +1482	1465 +1482	49.11 1.74	30.70 1.26	1.13 1.03	9.84 .33	2.65 1.68 +	.53	41
3U	206.3	215.7	30.50	37.49	32.01	18359					.37												
4U	215.7	223.7	18.92	40.73	40.35	23146					.56												
5U	223.7	232.8	31.18	34.28	34.54	19098					.54												
6U	232.8	242.3	34.79	34.94	30.27	17400					.38												
21U	242.3	245.3	88.53																				
2003U	245.3	250.8																					
904U	250.8	253.8	88.53																				
2004U	253.8	265.1																					
22U	265.1	266.8	83.77																				
2005U	266.8	274.0																					
905U	274.0	275.2	83.77																				
2006U	275.2	283.1																					
23U	283.1	287.4	86.93																				
7U	287.4	291.6	34.51	34.49	31.00	17375					.51												
24U	291.6	294.1	85.95																				
8U	294.1	300.2	71.16																				
9U	300.2	304.9	58.69	23.27	18.04	9618					.44												
10U	304.9	311.2	85.82																				
11U	311.2	318.5	57.27	23.20	19.53	10041					.46												
2007U	318.5	324.3																					
12U	324.3	334.0	51.62	27.63	20.75	11883					.36												
13U	334.0	337.7	29.12	35.16	35.72	19885					1.71												
2008U	337.7	342.9																					
25U	342.9	345.9	84.70																				
14U	345.9	352.0	52.42	25.08	22.50	11934					.42												
15U	352.0	358.7	56.28	23.60	20.12	10136					.36												
26U	358.7	361.4	83.43																				
16U	361.4	362.4	62.87	20.37	16.76	8266					.35												
906U	362.4	366.3	83.43																				
901U	366.3	367.2	62.87	20.37	16.76	8266					.35												
907U	367.2	370.0	83.43																				
902U	370.0	370.3	62.87	20.37	16.76	8266					.35												
908U	370.3	370.9	83.43																				
903U	370.9	371.8	62.87	20.37	16.76	8266					.35												
27U	371.8	375.0	89.31																				
17U	375.0	377.3	70.98																				
28U	377.3	381.3	81.51																				
18U	381.3	386.1	72.55																				
19U	386.1	393.8	56.18	23.00	20.82	10511					.53												
2009U	393.8	402.3																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0062

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.6	45.7																					
1U	45.7	54.8	47.17	28.73	24.10	13448					.73												
2002U	54.8	66.7																					
2U	66.7	73.9	33.64	35.09	31.27	18256					.47												
1001C	66.7	123.1	28.60	35.48	35.92	19929	49.57	4.43	.91	.13	.49	15.87	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	55.10 .66	32.90 .32	1.15 .10	7.45 .30	1.40 .59 +	.03	38
3U	73.9	80.4	51.74	24.97	23.29	11460					.35												
4U	80.4	92.6	33.95	34.25	31.80	17745					.42												
5U	92.6	107.8	26.13	35.61	38.26	20780					.49												
6U	107.8	123.1	19.14	38.62	42.24	22960					.51												
7U	123.1	138.6	30.78	34.19	35.03	18787					.65												
1002C	123.1	185.6	35.00	32.61	32.39	17310	44.01	3.87	.88	.20	.70	15.34	1371 +1448	1421 +1448	1429 +1448	1443 +1448	51.16 .85	29.01 .29	1.13 .10	11.30 .18	3.15 2.46 +	.37	42
8U	138.6	154.2	35.46	34.31	30.23	17040					.62												
9U	154.2	158.1	46.78	27.38	25.84	13795					.70												
10U	158.1	170.9	27.12	34.59	38.29	20196					.53												
11U	170.9	185.6	41.24	30.78	27.98	14712					.75												
12U	185.6	198.7	31.07	33.82	35.11	18936					.88												
1003C	185.6	255.4	37.10	31.31	31.59	16977	42.35	3.79	.87	.26	.79	14.84	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	57.54 .61	32.10 .29	1.34 .10	5.75 .21	1.26 .56 +	.24	46
13U	198.7	206.0	51.32	25.10	23.58	11583					.91												
14U	206.0	215.7	32.73	33.43	33.84	18401					.77												
15U	215.7	224.9	34.03	30.72	35.25	17812					.64												
16U	224.9	238.6	40.83	29.77	29.40	15333					.57												
17U	238.6	249.7	32.81	31.52	35.67	18033					.72												
18U	249.7	256.3	41.32	32.20	26.48	14702					1.44												
19U	256.3	266.3	83.98	12.25	3.77	44					.25												
20U	266.3	273.1	35.88	31.79	32.33	17110					.70												
1004C	266.3	300.8	35.31	32.63	32.06	17365	43.73	3.71	.90	.15	1.25	14.95	1312 1429	1376 +1448	1448 +1448	+1448 +1448	52.42 .99	28.00 .28	1.04 .10	12.90 .23	2.03 1.87 +	.14	39
21U	273.1	280.1	37.19	30.66	32.15	16979					.84												
22U	280.1	291.3	34.30	33.86	31.84	17472					.65												
23U	291.3	300.8	33.75	32.01	34.24	17538					1.70												
24U	300.8	308.7	58.47	26.97	14.56	8410					.46												
1005C	300.8	374.2	51.92	26.02	22.06	11730	30.68	3.15	.72	2.67	.48	10.38	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	56.70 .90	29.39 .19	1.21 .11	7.86 .21	1.26 .95 +	1.22	45
25U	308.7	317.6	60.96	25.68	13.36	7803					1.18												
26U	317.6	328.5	39.15	30.32	30.53	16568					.79												
27U	328.5	338.0	55.83	23.09	21.08	10594					.59												
28U	338.0	343.2	59.97	21.35	18.68	8927					.35												
29U	343.2	351.5	44.92	29.63	25.45	14253					.37												
30U	351.5	356.0	49.54	28.16	22.30	12527					.26												
31U	356.0	362.2	43.91	28.47	27.62	15014					.31												
32U	362.2	374.2	52.45	25.74	21.81	11371					.28												
33U	374.2	382.8	42.17	30.39	27.44	14723					.25												
1006C	374.2	433.2	39.78	30.72	29.50	15905	40.41	3.76	.95	.82	.34	13.94	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	54.26 .98	29.54 .25	1.26 .05	9.97 .24	1.61 1.14 +	.70	44
34U	382.8	393.4	37.29	33.28	29.43	16396					.24												
35U	393.4	398.6	61.91	29.44	8.65	6771					.14												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0062

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
36U	398.6	410.2	34.86	31.02	34.12	17761					.20												
37U	410.2	418.0	43.48	33.36	23.16	12830					.29												
38U	418.0	433.2	35.34	33.60	31.06	17807					.52												
39U	433.2	448.5	25.88	36.58	37.54	21108					.30												
1007C	433.2	511.4	25.29	36.68	38.03	21501	52.96	4.75	.97	.41	.24	15.38	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	53.54 .80	33.32 .41	1.45 .03	5.76 .31	1.89 1.22 + 1.27		34
40U	448.5	463.7	24.27	36.19	39.54	21601					.24												
41U	463.7	478.9	26.83	37.37	35.80	21052					.22												
42U	478.9	494.2	26.67	37.45	35.88	21189					.24												
43U	494.2	502.7	27.22	36.58	36.20	21101					.26												
44U	502.7	511.4	20.06	39.15	40.79	23481					.22												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0068

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
	LENGTH											OXYGEN BY	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO		GRIND
NO.	FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	DIFF.	ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3	UND+ER	INDEX
2001U	0.0	42.6																					
2002U	42.6	90.8																					
1U	90.8	93.8	87.64																				
2U	93.8	103.0	78.31																				
3U	103.0	106.3	71.23	19.50	9.27	3619					.42												
1001C	103.0	157.2	35.23	32.04	32.73	17745	44.21	4.78	1.04	.01	.90	13.83	1434	+1448	+1448	+1448	53.32	29.92	1.36	6.58	1.89		49
													+1448	+1448	+1448	+1448	.90	.88	.93	.31	2.03 + 1.88		
4U	106.3	112.1	25.51	37.92	36.57	20687					.70												
5U	112.1	117.9	39.34	32.11	28.55	16298					.62												
6U	117.9	121.6	39.17	31.43	29.40	16070					.57												
7U	121.6	130.1	35.50	33.72	30.78	17498					.75												
8U	130.1	138.6	30.91	36.19	32.90	19080					1.21												
9U	138.6	144.7	36.53	33.83	29.64	17219					1.35												
10U	144.7	149.9	37.91	31.47	30.62	16861					.73												
11U	149.9	153.0	39.35	35.55	25.10	15561					.58												
12U	153.0	157.2	26.88	36.21	36.91	20106					.66												
13U	157.2	161.6	38.41	32.27	29.32	16284					.61												
1002C	157.2	207.5	51.10	25.34	23.56	12083	31.66	3.54	.73	.01	.88	12.08	1429	+1448	+1448	+1448	54.30	29.54	1.14	7.15	1.85		62
													+1448	+1448	+1448	+1448	.96	.67	.80	.20	2.21 + 1.18		
14U	161.6	169.1	58.93	25.92	15.15	9015					.38												
15U	169.1	174.9	39.33	33.06	27.61	17514					1.62												
16U	174.9	182.5	50.26	26.90	22.84	13653					1.22												
17U	182.5	192.9	62.49	21.98	15.53	7845					.54												
18U	192.9	200.2	52.86	26.11	21.03	11309					.44												
19U	200.2	207.5	40.34	30.41	29.25	15793					.73												
20U	207.5	213.0	83.55																				
21U	213.0	220.6	38.65	31.95	29.40	16421					.54												
1003C	213.0	291.6	46.66	28.70	24.64	13167	34.62	3.50	.79	.01	.54	13.88	1304	1359	1390	1418	51.88	28.46	1.23	7.58	3.50		52
													1409	1446	+1448	+1448	2.03	.88	.84	.26	1.99 + 1.35		
22U	220.6	222.1	71.95	16.89	11.16	4575					.35												
23U	222.1	228.4	32.26	34.44	33.30	18640					.52												
24U	228.4	233.7	27.73	36.57	35.70	19989					.59												
25U	233.7	238.9	47.44	28.96	23.60	13100					.61												
26U	238.9	241.4	23.94	36.74	39.32	21122					.83												
27U	241.4	255.8	40.60	31.14	28.26	15393					.56												
28U	255.8	259.6	37.84	32.21	29.95	16147					.59												
29U	259.6	270.0	40.46	31.28	28.26	15902					.74												
30U	270.0	276.1	67.54	19.91	12.55	6324					.38												
31U	276.1	283.4	54.98	26.71	18.31	9190					.46												
32U	283.4	291.6	68.08	22.42	9.50	4212					.45												
33U	291.6	299.3	83.62																				
34U	299.3	309.6	49.98	27.11	22.91	12304					.64												
1004C	299.3	312.1	58.79	23.57	17.64	9148	25.41	2.65	.57	.00	.48	12.10	1337	1401	1432	1448	55.02	27.71	1.14	9.65	.84		64
													1448	+1448	+1448	+1448	1.74	.74	.87	.23	1.47 + .59		
35U	309.6	312.1	56.58	24.91	18.51	9769					.48												
36U	312.1	318.5	84.86																				
37U	318.5	329.4	54.57	23.58	21.85	10941					.55												
1101C	318.5	346.4	58.79	23.57	17.64	9148	25.41	2.65	.57	.00	.48	12.10	1337	1401	1432	1448	55.02	27.71	1.14	9.65	.84		64
													1448	+1448	+1448	+1448	1.74	.74	.87	.23	1.47 + .59		

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0068

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
38U	329.4	338.6	61.12	23.79	15.09	8329					.50																				
39U	338.6	343.5	75.79	17.91	6.30	2602					.51																				
40U	343.5	346.4	52.88	24.34	22.78	11474					.53																				
41U	346.4	355.7	80.53																												
42U	355.7	360.2	67.56	21.63	10.81	5563					.32																				
1102C	355.7	360.2	58.79	23.57	17.64	9148	25.41	2.65	.57	.00	.48	12.10	1337	1401	1432	1448	55.02	27.71	1.14	9.65	.84									64
													1448	+1448	+1448	+1448	1.74	.74	.87	.23	1.47 + .59									
43U	360.2	367.5	85.63																												
44U	367.5	378.8	67.15	20.99	11.86	5759					.45																				
1005C	367.5	378.8	58.50	22.96	18.54	9308	25.68	2.62	.60	.01	.68	11.91	1309	1440	+1448	+1448	56.60	26.95	1.13	7.15	1.33									56
													1446	+1448	+1448	+1448	1.74	.77	.90	.26	1.99 + 1.18									
45U	378.8	385.5	79.70																												
46U	385.5	388.4	80.01																												
47U	388.4	391.5	51.36	27.06	21.58	11709					.73																				
1103C	388.4	391.5	58.50	22.96	18.54	9308	25.68	2.62	.60	.01	.68	11.91	1309	1440	+1448	+1448	56.60	26.95	1.13	7.15	1.33									56
													1446	+1448	+1448	+1448	1.74	.77	.90	.26	1.99 + 1.18									
48U	391.5	396.5	79.02																												
49U	396.5	402.6	47.55	26.95	25.50	12995					.99																				
1104C	396.5	402.6	58.50	22.96	18.54	9308	25.68	2.62	.60	.01	.68	11.91	1309	1440	+1448	+1448	56.60	26.95	1.13	7.15	1.33									56
													1446	+1448	+1448	+1448	1.74	.77	.90	.26	1.99 + 1.18									
50U	402.6	405.9	84.79																												
51U	405.9	415.1	54.65	25.51	19.84	10653					.58																				
1105C	405.9	434.9	58.50	22.96	18.54	9308	25.68	2.62	.60	.01	.68	11.91	1309	1440	+1448	+1448	56.60	26.95	1.13	7.15	1.33									56
													1446	+1448	+1448	+1448	1.74	.77	.90	.26	1.99 + 1.18									
52U	415.1	423.9	62.70	21.14	16.16	7808					.45																				
53U	423.9	434.9	55.66	24.45	19.89	10399					1.13																				
2003U	434.9	461.1																													
54U	461.1	470.0	66.01	19.84	14.15	6787					1.32																				
55U	470.0	472.7	76.24																												
56U	472.7	476.7	84.40																												
57U	476.7	484.6	42.52	28.39	29.09	15502					.65																				
1006C	476.7	532.1	45.88	28.31	25.81	13995	36.30	3.36	.68	.01	.75	13.02	1434	+1448	+1448	+1448	55.32	27.93	1.16	7.36	.32									49
													+1448	+1448	+1448	+1448	1.82	.96	.84	.34	2.25 + 1.70									
58U	484.6	493.9	51.05	24.29	24.66	12227					.67																				
59U	493.9	496.8	47.02	28.31	24.67	13576					.51																				
60U	496.8	505.9	39.24	29.90	30.86	16412					.49																				
61U	505.9	515.1	41.11	29.50	29.39	15830					.84																				
62U	515.1	525.1	45.52	30.10	24.38	13737					1.56																				
63U	525.1	532.1	61.80	21.51	16.69	8099					.75																				
64U	532.1	537.0	75.44																												
65U	537.0	544.9	59.58	23.27	17.15	8827					.59																				
1106C	537.0	561.7	45.88	28.31	25.81	13995	36.30	3.36	.68	.01	.75	13.02	1434	+1448	+1448	+1448	55.32	27.93	1.16	7.36	.32									49
													+1448	+1448	+1448	+1448	1.82	.96	.84	.34	2.25 + 1.70									
66U	544.9	551.9	59.72	24.56	15.70	8075					.44																				
67U	551.9	561.7	14.19	41.36	44.45	25909					.54																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0073

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.0	38.1																					
1U	38.1	49.0	34.67	33.29	32.04	17868					.86												
1001C	39.6	100.5	44.13	30.78	25.09	14304	37.62	3.29	.80	.02	.66	13.48	1454 / +1482	1465 / +1482	1476 / +1482	1482 / +1482	48.80 / 1.61	29.84 / .47	1.15 / .90	10.88 / .28	3.14 / 2.23	+ .70	45
2U	49.0	57.9	35.49	36.33	28.18	16977					.72												
3U	57.9	62.9	57.19	24.44	18.37	10601					.59												
4U	62.9	69.1	27.39	35.91	36.70	20573					1.30												
5U	69.1	73.7	51.97	27.36	20.67	12137					.55												
6U	73.7	81.0	39.36	33.83	26.81	15293					.59												
7U	81.0	91.7	47.52	27.64	24.84	13511					.60												
8U	91.7	100.5	52.23	29.28	18.49	11109					.63												
9U	100.5	109.7	48.50	27.64	23.86	13679					.54												
1002C	100.5	158.1	41.19	30.26	28.55	15688	40.34	3.42	.89	.02	.65	13.49	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	52.82 / 1.15	31.75 / .55	1.15 / .97	7.05 / .29	2.27 / .28	+ 1.72	40
10U	109.7	120.0	50.94	26.71	22.35	12590					.83												
11U	120.0	128.3	31.59	35.70	32.71	18989					.70												
12U	128.3	135.9	19.93	40.88	39.19	22843					.68												
13U	135.9	144.3	37.62	30.83	31.55	17224					.97												
14U	144.3	153.0	40.15	31.67	28.18	15958					.77												
15U	153.0	158.1	60.87	22.66	16.47	9234					.43												
2002U	158.1	160.3																					
16U	160.3	167.3	42.61	30.48	26.91	15030					1.00												
1003C	160.3	206.3	38.10	31.75	30.15	16519	42.30	3.60	1.03	.01	.84	14.12	1371 / 1476	1382 / +1482	1393 / +1482	1409 / +1482	47.45 / 2.42	28.07 / .81	1.13 / .90	12.45 / .27	2.69 / 1.91	+ 1.90	41
17U	167.3	181.0	42.31	31.23	26.46	14751					.84												
18U	181.0	191.4	26.38	37.44	36.18	20589					.95												
19U	191.4	199.9	33.24	35.22	31.54	18028					.72												
20U	199.9	206.3	47.63	28.03	24.34	13555					.93												
21U	206.3	211.0	82.10																				
22U	211.0	215.7	46.07	26.80	27.13	13930					.61												
1004C	211.0	272.4	56.19	25.86	17.95	9559	27.51	2.42	.92	.03	.58	12.35	1187 / 1276	1198 / 1293	1209 / 1309	1221 / 1326	48.10 / 2.51	24.49 / .85	.98 / .90	11.80 / .28	5.97 / 2.31	+ 1.81	55
23U	215.7	233.1	61.18	29.81	9.01	7243					.87												
24U	233.1	241.7	55.87	24.55	19.58	11141					.51												
25U	241.7	249.3	52.08	26.09	21.83	11095					.44												
26U	249.3	255.1	35.93	32.89	31.18	17449					.56												
27U	255.1	263.0	74.19	16.97	8.84	4393					.30												
28U	263.0	272.4	46.50	29.51	23.99	13155					.37												
29U	272.4	275.8	81.11																				
1005C	272.4	337.7	54.68	24.65	20.67	10995	29.88	2.53	.86	.01	.47	11.57	1426 / +1482	1443 / +1482	1459 / +1482	1482 / +1482	52.43 / 2.66	27.00 / 1.15	1.11 / 1.14	9.52 / .40	2.13 / 1.50	+ .96	50
30U	275.8	285.2	32.26	33.72	34.02	18963					.67												
31U	285.2	291.0	60.65	22.15	17.20	9138					.38												
32U	291.0	298.0	58.08	23.43	18.49	9569					.46												
33U	298.0	307.2	49.96	28.18	21.86	12369					.78												
2003U	307.2	322.6																					
34U	322.6	329.6	33.37	32.54	34.09	18356					.92												
1006C	322.6	329.6	38.47	29.67	31.86	16649	42.90	3.58	1.04	.05	.54	13.42	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	50.95 / 1.53	30.91 / 1.15	1.00 / .84	8.30 / .27	2.36 / 1.28	+ 1.41	34

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0073

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO / MGO	NA2O	K2O	P2O5	SO3 / UND+ER	GRIND INDEX
35U	329.6	330.8	87.26																							
36U	330.8	332.8	56.59	22.66	20.75	10594					.73															
37U	332.8	339.2																								
38U	339.2	349.9	29.37	34.47	36.16	19982					.64															
1101C	339.2	400.2	38.47	29.67	31.86	16649	42.90	3.58	1.04	.05	.54	13.42	+1482	+1482	+1482	+1482	50.95	30.91	1.00	8.30	2.36					34
													+1482	+1482	+1482	+1482	1.53	1.15	.84	.27	1.28 + 1.41					
39U	349.9	356.6	60.65	23.85	15.50	8827					.48															
40U	356.6	369.7	45.62	29.80	24.58	14060					.40															
41U	369.7	384.9	37.73	32.15	30.12	17124					.54															
42U	384.9	400.2	33.94	33.54	32.52	18305					.51															
43U	400.2	410.5	36.07	32.97	30.96	17184					.54															
1007C	400.2	463.4	45.07	28.64	26.29	14556	37.77	3.22	1.02	.02	.53	12.37	+1482	+1482	+1482	+1482	52.43	29.49	1.02	8.52	2.47					50
													+1482	+1482	+1482	+1482	1.29	.85	.90	.28	1.50 + 1.25					
44U	410.5	417.5	41.65	29.11	29.24	15521					.70															
45U	417.5	423.9	51.97	29.72	18.31	11183					.43															
46U	423.9	431.9	37.50	30.23	32.27	17045					.67															
47U	431.9	437.9	51.98	26.34	21.68	11634					.66															
48U	437.9	444.0	63.37	22.78	13.85	7573					.41															
49U	444.0	457.2	45.98	27.86	26.16	14114					.59															
50U	457.2	463.4	40.13	29.01	30.86	16098					1.14															
51U	463.4	469.8	59.89	27.52	12.59	7094					1.12															
1008C	463.4	524.5	50.16	26.76	23.08	12423	33.10	2.95	.79	.06	.69	12.25	1432	1437	1448	1465	52.30	28.69	.81	6.90	4.64					50
													+1482	+1482	+1482	+1482	1.74	.92	.83	.36	2.45 + .36					
52U	469.8	475.1	39.73	29.50	30.77	16554					1.27															
53U	475.1	480.9	68.78	19.89	11.33	5875					.45															
54U	480.9	490.7	30.99	32.53	36.48	19710					.75															
55U	490.7	500.1	61.46	22.68	15.86	9038					.40															
56U	500.1	515.4	40.92	28.80	30.28	15905					.62															
57U	515.4	524.5	49.23	26.58	24.19	13174					.50															
58U	524.5	530.8	44.92	30.99	24.09	14658					.44															
1009C	524.5	583.0	54.07	24.92	21.01	10892	29.77	2.53	.67	.02	.45	12.49	1382	1387	1409	1426	53.35	27.57	.94	9.30	3.59					51
													1448	1454	1471	+1482	1.13	.81	.90	.31	1.98 + .12					
59U	530.8	536.6	60.52	23.30	16.18	9106					.55															
60U	536.6	544.3	46.98	30.79	22.23	13925					.63															
61U	544.3	550.4	50.63	25.73	23.64	12774					.55															
62U	550.4	556.2	44.31	31.90	23.79	14149					.53															
63U	556.2	563.8	49.46	27.28	23.26	12953					.55															
64U	563.8	569.9	65.22	26.22	8.56	5884					.32															
65U	569.9	577.9	56.14	25.35	18.51	10471					.41															
66U	577.9	583.0	69.93	17.90	12.17	6419					.35															
2004U	583.0	591.3																								

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0074

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.6	83.8																					
1U	83.8	93.8	52.12	26.16	21.72	10283					5.46												
1001C	85.9	133.1	27.92	35.65	36.43	19594	49.05	5.03	1.18	.00	1.28	15.54	1423 +1448	1446 +1448	1448 +1448	+1448 +1448	50.28 .50	33.01 .15	1.96 .09	9.15 .29	1.89 .92	+ 1.76	39
2U	93.8	109.1	19.64	39.79	40.57	22008					.66												
3U	109.1	124.3	21.49	37.74	40.77	21443					.59												
4U	124.3	133.1	30.99	32.97	36.04	17984					.61												
5U	133.1	135.9	66.57	24.03	9.40	4970					.37												
1002C	133.1	176.6	41.57	30.73	27.70	14832	38.63	4.25	.90	.01	.94	13.70	1396 +1448	1448 +1448	+1448 +1448	+1448 +1448	49.52 .66	31.77 .17	1.98 .14	6.79 .18	4.51 3.29	+ .99	52
6U	135.9	144.1	38.42	31.55	30.03	15735					1.47												
7U	144.1	152.2	40.96	29.13	29.91	14988					1.07												
8U	152.2	156.9	48.64	28.87	22.49	12167					.58												
9U	156.9	163.6	31.13	34.76	34.11	18401					.66												
10U	163.6	166.5	49.31	29.92	20.77	8378					1.04												
11U	166.5	176.6	30.11	35.52	34.37	18612					.64												
12U	176.6	183.4	47.16	23.04	29.80	13597					.51												
1003C	176.6	220.6	46.22	28.55	25.23	13607	34.95	4.21	.88	.00	.64	13.10	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	54.62 .71	32.62 .16	2.12 .20	6.43 .18	1.40 .94	+ .62	50
13U	183.4	190.3	42.65	28.99	28.36	14498					.85												
14U	190.3	201.1	38.25	30.89	30.86	16170					.99												
15U	201.1	211.5	43.31	30.11	26.58	14358					.56												
16U	211.5	220.6	65.73	21.71	12.56	5842					.33												
17U	220.6	236.2	45.28	28.24	26.48	13797					.53												
1004C	220.6	266.7	45.14	28.48	26.38	14297	36.39	4.43	.92	.00	.69	12.43	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	55.44 .58	33.94 .19	1.62 .23	3.72 .11	1.99 1.58	+ .60	46
18U	236.2	251.4	46.84	28.30	24.86	13162					.51												
19U	251.4	266.7	45.08	29.24	25.68	14221					.92												
20U	266.7	281.9	26.44	36.46	37.10	20720					.69												
1005C	266.7	323.8	34.93	32.49	32.58	18387	46.14	4.44	.94	.00	.73	12.82	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	49.86 .69	34.94 .18	2.05 .08	7.72 .13	1.50 .90	+ 1.95	49
21U	281.9	297.1	29.74	36.36	33.90	19001					.68												
22U	297.1	312.4	39.08	33.18	27.74	15968					.67												
23U	312.4	323.8	43.30	29.96	26.74	14632					.58												
24U	323.8	327.6	65.01	20.91	14.08	6401					.55												
1006C	323.8	393.8	50.88	27.06	22.06	12016	31.79	3.36	.76	.01	.74	12.46	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	55.76 .60	32.24 .21	1.71 .12	4.72 .20	2.10 1.74	+ .60	45
25U	327.6	335.2	47.93	29.75	22.32	12632					.74												
26U	335.2	341.3	60.15	28.25	11.60	7289					.44												
27U	341.3	351.8	35.76	32.89	31.35	17198					1.09												
28U	351.8	355.7	50.93	26.88	22.19	11895					.63												
29U	355.7	363.3	36.57	33.05	30.38	17093					.78												
30U	363.3	375.5	51.48	26.30	22.22	11802					.91												
31U	375.5	386.1	57.42	23.52	19.06	9676					.81												
32U	386.1	393.8	66.17	20.73	13.10	6210					.51												
33U	393.8	409.0	21.48	39.56	38.96	22462					.98												
1007C	393.8	456.5	27.92	36.12	35.96	20317	50.28	4.71	.96	.00	1.03	15.10	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	51.66 .58	34.79 .39	1.80 .10	6.22 .17	1.64 1.35	+ 1.30	45
34U	409.0	424.2	31.59	34.88	33.53	18943					1.04												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0074

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS					FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
35U	424.2	439.5	28.38	36.67	34.95	20017					.91												
36U	439.5	456.5	28.87	36.20	34.93	19785					1.11												
37U	456.5	465.7	53.35	27.36	19.29	10469					.51												
1008C	456.5	511.4	32.40	36.07	31.53	18645	46.70	4.29	.89	.00	.91	14.81	1373 +1448	1401 +1448	1409 +1448	1418 +1448	44.08 .93	29.39 .35	1.76 .06	14.94 .29	4.20 3.04 +	.96	44
38U	465.7	480.9	28.99	35.73	35.28	19922					1.11												
39U	480.9	496.2	28.23	37.30	34.47	19899					1.13												
40U	496.2	511.4	28.29	37.70	34.01	19926					.71												
41U	511.4	521.2	25.15	37.02	37.83	21473					.67												
1009C	511.4	562.0	28.14	35.72	36.14	20289	51.00	4.81	1.05	.00	.80	14.20	1359 +1448	+1448 +1448	+1448 +1448	+1448 +1448	47.38 .65	31.01 .93	1.92 .10	5.72 .15	7.49 3.74 +	.91	51
42U	521.2	530.3	29.49	36.40	34.11	19740					.68												
43U	530.3	545.5	29.90	35.99	34.11	18575					.94												
44U	545.5	554.1	30.69	35.13	34.18	19184					.84												
45U	554.1	562.0	32.05	33.06	34.89	18936					.77												
46U	562.0	566.0	41.20	30.27	28.53	15877					.56												
1010C	562.0	620.5	42.27	29.76	27.97	15330	39.43	3.88	.85	.00	1.07	12.50	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	51.62 .55	31.57 .74	1.96 .12	6.01 .24	3.22 3.26 +	.71	60
47U	566.0	569.3	43.50	30.24	26.26	14914					.62												
48U	569.3	577.1	48.33	28.43	23.24	13274					.97												
49U	577.1	592.3	37.28	32.72	30.00	16796					.90												
50U	592.3	607.6	35.81	31.77	32.42	17684					1.26												
51U	607.6	614.4	56.33	23.93	19.74	10234					.92												
52U	614.4	620.5	44.93	30.88	24.19	14409					1.38												
53U	620.5	634.8	44.57	29.12	26.31	14484					1.59												
1011C	620.5	680.3	51.02	25.27	23.71	11955	31.67	3.31	.78	.00	.85	12.37	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	52.04 .60	33.01 .22	1.71 .03	7.58 .15	1.60 1.28 +	1.78	60
54U	634.8	638.5	38.59	37.10	24.31	15535					.99												
55U	638.5	646.4	59.92	22.20	17.88	9204					.98												
56U	646.4	653.4	56.51	23.96	19.53	10601					.45												
57U	653.4	659.2	61.08	22.57	16.35	8766					.35												
58U	659.2	672.3	44.81	28.79	26.40	14246					.46												
59U	672.3	680.3	59.48	24.65	15.87	8503					.52												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0077

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
	LENGTH											OXYGEN BY	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO		GRIND
NO.	FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	DIFF.	ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3	UND+ER	INDEX
2001U	0.6	29.5																					
1U	29.5	42.3	22.27	36.67	41.06	22138					.71												
1001C	30.7	88.2	30.07	33.78	36.15	19408	48.98	3.95	.96	.01	.55	15.48	1421	1432	1443	1454	48.13	30.55	.92	10.74	2.92		40
													+1482	+1482	+1482	+1482	.97	1.67	1.00	.32	2.28 +	.50	
2U	42.3	50.9	24.57	38.09	37.34	21141					.72												
3U	50.9	57.3	29.80	37.10	33.10	19054					1.05												
4U	57.3	64.0	33.81	32.56	33.63	18366					.53												
5U	64.0	69.1	43.38	29.79	26.83	15160					.47												
6U	69.1	73.1	20.61	37.55	41.84	22597					.38												
7U	73.1	79.2	37.77	31.41	30.82	16654					.42												
8U	79.2	86.2	26.24	34.85	38.91	20620					.53												
9U	86.2	88.2	56.17	23.89	19.94	11181					.33												
10U	88.2	103.4	33.19	35.00	31.81	18254					.64												
1002C	88.2	135.0	31.98	34.10	33.92	18563	47.45	3.90	1.03	.05	.71	14.88	1437	1448	1459	1482	48.42	30.40	1.01	9.33	3.34		45
													+1482	+1482	+1482	+1482	2.09	1.72	.96	.50	2.16 +	.07	
11U	103.4	118.7	34.87	32.74	32.39	17719					.92												
12U	118.7	135.0	28.15	34.44	37.41	19915					.73												
13U	135.0	152.7	31.07	33.51	35.42	19056					.64												
1003C	135.0	191.8	32.75	33.13	34.12	18496	47.27	3.85	.98	.03	.68	14.44	+1482	+1482	+1482	+1482	51.51	31.03	1.01	7.44	2.55		48
													+1482	+1482	+1482	+1482	1.84	1.60	.95	.34	1.61 +	.12	
14U	152.7	164.8	30.82	33.58	35.60	19540					.68												
15U	164.8	177.0	25.87	35.16	38.97	20859					.88												
16U	177.0	188.5	36.38	32.93	30.69	17579					.69												
17U	188.5	191.8	65.19	22.38	12.43	7326					.52												
18U	191.8	197.9	79.60																				
19U	197.9	212.4	48.85	27.16	23.99	12983					.58												
1004C	197.9	258.1	44.66	28.97	26.37	14121	37.59	3.15	.93	.01	.61	13.05	1248	1259	1271	1282	51.51	26.73	.85	8.08	6.33		57
													1315	1326	1337	1348	1.53	.97	.83	.19	2.52 +	.46	
20U	212.4	218.5	69.86	24.61	5.53	3868					.28												
21U	218.5	224.6	34.01	32.69	33.30	17542					.61												
22U	224.6	229.5	46.10	28.91	24.99	13983					.87												
23U	229.5	235.7	22.87	35.64	41.49	22318					.72												
24U	235.7	247.1	34.36	30.94	34.70	18263					.84												
25U	247.1	258.1	42.43	29.04	28.53	15226					.65												
26U	258.1	269.4	57.97	27.56	14.47	8094					.36												
1005C	258.1	316.9	51.89	26.44	21.67	11683	31.62	2.59	.91	.05	.60	12.34	1237	1259	1276	1293	51.09	27.43	.84	8.76	5.35		66
													1348	1359	1371	1415	1.45	.81	1.00	.24	2.66 +	.37	
27U	269.4	275.5	60.25	21.85	17.90	9636					.66												
28U	275.5	282.8	43.85	27.90	28.25	15286					.56												
29U	282.8	290.4	54.28	26.38	19.34	11046					.78												
30U	290.4	295.3	46.13	29.05	24.82	13872					.73												
31U	295.3	299.9	46.02	29.54	24.44	13911					.57												
32U	299.9	302.3	56.76	23.09	20.15	9885					.99												
33U	302.3	304.4	71.60	18.14	10.26	5261					.36												
34U	304.4	314.8	44.40	27.97	27.63	15133					.76												
35U	314.8	316.9	44.28	26.74	28.98	14712					.99												
36U	316.9	324.3	59.06	22.35	18.59	9841					.57												
1006C	316.9	376.1	45.75	29.73	24.52	13553	36.76	3.09	.95	.05	.35	13.05	1254	1265	1271	1282	46.71	28.87	.95	10.29	6.71		60
													1376	1387	1398	1409	1.55	.90	.73	.19	2.57 +	.53	

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0077

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
37U	324.3	330.7	46.28	27.61	26.11	14125					.49												
38U	330.7	333.4	26.18	34.32	39.50	21520					.51												
39U	333.4	336.4	47.69	29.70	22.61	13369					.32												
40U	336.4	346.8	45.53	28.27	26.20	14467					.33												
41U	346.8	352.3	59.56	36.92	3.52	5747					.26												
42U	352.3	364.5	45.03	26.57	28.40	14914					.34												
43U	364.5	376.1	33.05	35.82	31.13	18549					.35												
44U	376.1	381.9	43.62	28.70	27.68	14300					.26												
1007C	376.1	453.2	33.07	33.36	33.57	18808	47.62	3.79	.95	.02	.24	14.31	1365 +1482	1415 +1482	1437 +1482	1473 +1482	47.56 2.06	32.82 1.45	.96 .45	7.71 .23	4.62 1.64	+ .50	57
45U	381.9	392.2	43.23	29.75	27.02	12465					.25												
46U	392.2	404.4	37.51	30.52	31.97	17379					.29												
47U	404.4	413.6	29.20	34.22	36.58	20617					.28												
48U	413.6	422.7	30.44	33.20	36.36	20245					.22												
49U	422.7	437.9	27.90	34.66	37.44	20815					.24												
50U	437.9	453.2	27.06	36.87	36.07	20968					.23												
51U	453.2	468.4	33.98	32.62	33.40	18905					.20												
1008C	453.2	512.6	29.90	34.31	35.79	20273	51.20	4.18	.97	.01	.18	13.56	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	51.09 .56	35.85 1.41	1.01 .31	6.56 .11	1.90 .82	+ .38	53
52U	468.4	481.2	22.48	38.15	39.37	22811					.19												
53U	481.2	494.0	22.87	37.19	39.94	22883					.19												
54U	494.0	497.4	28.16	33.21	38.63	20564					.22												
55U	497.4	512.6	35.06	33.03	31.91	18266					.20												
56U	512.6	527.9	28.24	35.27	36.49	20966					.28												
1009C	512.6	562.6	23.46	35.86	40.68	23069	57.66	4.62	.96	.04	.24	13.02	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	51.50 .73	37.83 1.72	1.32 .31	2.78 .28	2.57 .82	+ .14	46
57U	527.9	543.1	18.93	36.94	44.13	24453					.22												
58U	543.1	552.9	18.33	38.01	43.66	24946					.24												
59U	552.9	562.6	20.77	36.58	42.65	24143					.24												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0078

SAMPLE		PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
	LENGTH										OXYGEN BY	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO		GRIND
NO.	FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	DIFF.	ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3	UND+ER	INDEX
2001U	0.6	39.6																					
2002U	39.6	214.1																					
1U	214.1	220.3	44.85	26.33	28.82	14842						.66											

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0079

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS					OXYGEN	FUSION ANALYSIS				MINERAL ANALYSIS						GRIND
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	BY DIFF.	ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	INDEX
2001U	1.5	10.0																					
2002U	10.0	196.9																					
1U	196.9	199.9	70.40	19.17	10.43	6405					.96												
2U	199.9	215.1	24.98	37.31	37.71	20264					.52												
1001C	199.9	260.9	29.87	35.62	34.51	18563	48.37	4.35	.99	.06	.49	15.87	+1371 / 1398	+1371 / 1482	+1371 / +1482	+1371 / +1482	51.27 / 1.41	30.71 / .77	1.13 / .72	7.72 / .52	2.52 / 1.96 + 1.27		31
3U	215.1	230.4	29.91	34.30	35.79	19068					.43												
4U	230.4	245.6	32.67	33.72	33.61	18319					.44												
5U	245.6	260.9	34.08	33.18	32.74	17942					.66												
6U	260.9	276.1	40.94	31.99	27.07	15523					.45												
1002C	260.9	321.8	34.87	35.49	29.64	17196	44.95	5.05	.94	.06	.54	13.59	1354 / 1398	+1371 / 1454	+1371 / 1465	+1371 / +1482	49.65 / 1.46	29.97 / .77	1.15 / .65	9.83 / .34	3.14 / 1.66 + 1.38		33
7U	276.1	291.3	28.54	35.76	35.70	19443					.57												
8U	291.3	306.6	30.05	35.70	34.25	19005					.48												
9U	306.6	321.8	42.32	30.92	26.76	14898					.45												
10U	321.8	337.1	33.36	33.78	32.86	18105					.94												
1003C	321.8	382.8	38.82	32.94	28.24	15833	42.09	4.38	.85	.04	.65	13.17	+1432 / +1482	+1432 / +1482	+1432 / +1482	+1432 / +1482	51.97 / 1.24	31.10 / .79	1.05 / .72	6.97 / .28	1.99 / 1.72 + 2.17		37
11U	337.1	352.3	47.90	28.63	23.47	13479					.63												
12U	352.3	367.5	36.95	32.71	30.34	16384					.68												
13U	367.5	382.8	33.26	33.40	33.34	18114					.97												
14U	382.8	398.0	37.19	34.06	28.75	16296					.62												
1004C	382.8	461.7	33.41	36.73	29.86	17763	46.20	4.57	.89	.06	.73	14.14	1387 / 1332	+1415 / 1404	+1415 / 1454	+1415 / +1454	49.15 / 1.39	28.87 / 1.02	.94 / .56	11.55 / .20	2.84 / 2.30 + 1.18		36
15U	398.0	413.3	30.77	36.38	32.85	18787					.66												
16U	413.3	428.5	30.86	35.06	34.08	18763					.86												
17U	428.5	443.7	31.82	33.91	34.27	18512					.97												
18U	443.7	456.8	30.17	35.67	34.16	18931					.89												
19U	456.8	461.7	40.84	32.00	27.16	15528					.84												
20U	461.7	470.3	54.60	25.28	20.12	11032					.75												
1005C	461.7	538.5	46.30	31.40	22.30	13669	35.74	3.77	.68	.05	.88	12.58	+1371 / +1459	+1371 / +1459	+1371 / +1459	+1371 / +1459	50.62 / 1.11	29.61 / .79	.94 / .59	10.89 / .26	1.96 / 1.86 + 1.37		55
21U	470.3	479.2	44.42	32.75	22.83	14391					1.25												
22U	479.2	493.1	31.55	34.39	34.06	18568					1.05												
23U	493.1	506.2	41.57	30.73	27.70	15319					1.04												
24U	506.2	508.7	54.09	26.75	19.16	11139					1.06												
25U	508.7	516.9	50.97	27.30	21.73	11876					.78												
26U	516.9	526.9	44.59	29.02	26.39	14323					.92												
27U	526.9	538.5	63.54	21.94	14.52	7882					.81												
2003U	538.5	541.6																					
28U	541.6	550.1	58.61	24.07	17.32	9680					.58												
1006C	541.6	593.7	61.36	25.43	13.21	8382	23.43	2.74	.48	.07	.32	11.60	+1371 / 1371	+1371 / 1443	+1371 / +1482	+1371 / +1482	54.32 / 1.19	29.51 / .66	1.00 / .68	8.80 / .21	1.01 / 1.00 + 1.62		58
29U	550.1	555.3	60.11	23.07	16.82	9336					.54												
30U	555.3	562.6	65.45	21.56	12.99	7457					.32												
31U	562.6	569.6	64.87	24.31	10.82	7578					.27												
32U	569.6	578.5	56.06	28.05	15.89	10267					.25												
33U	578.5	587.1	55.59	27.09	17.32	10376					.22												
34U	587.1	593.7	68.30	21.72	9.98	6824					.17												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0080

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
2001U	0.0	15.2																													
2002U	15.2	354.7																													
1U	354.7	357.2	83.21																												
2U	357.2	372.4	21.01	36.22	42.77	22490					.62																				
1001C	357.2	402.9	24.28	36.66	39.06	21287	53.44	4.60	1.23	.00	.69	15.76	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	49.38	35.74	2.08	6.79	1.99	.68	.33	.04	.31	.71	+ 1.95	49
3U	372.4	387.7	26.03	35.81	38.16	20457					.62																				
4U	387.7	402.9	24.86	35.27	39.87	21213					.71																				
5U	402.9	415.7	26.46	34.77	38.77	20701					.70																				
1002C	402.9	451.7	29.37	34.41	36.22	19882	50.05	4.46	1.04	.00	.73	14.35	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	51.80	36.21	1.79	4.72	1.61	.71	.26	.04	.20	.86	+ 1.80	51
6U	415.7	423.0	30.18	33.31	36.51	19636					.55																				
7U	423.0	434.9	38.04	31.19	30.77	16600					.66																				
8U	434.9	451.7	25.98	33.72	40.30	20875					.76																				
9U	451.7	460.2	19.72	36.53	43.75	23032					.72																				
1003C	451.7	494.9	24.05	36.43	39.52	21855	54.34	4.61	.68	.00	.71	15.61	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	50.78	35.59	2.01	4.72	2.06	.81	.31	.05	.45	1.15	+ 2.07	49
10U	460.2	464.5	36.73	32.63	30.64	16996					.64																				
11U	464.5	479.7	24.94	35.85	39.21	21334					.72																				
12U	479.7	494.9	20.89	36.20	42.91	23136					.61																				
13U	494.9	510.2	32.43	32.82	34.75	18696					.71																				
1004C	494.9	534.0	31.45	33.60	34.95	19401	48.69	4.13	1.05	.00	.74	13.94	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	52.08	32.24	1.88	4.86	2.45	1.11	.22	.05	.13	1.97	+ 3.01	50
14U	510.2	518.7	33.16	28.86	37.98	19357					.61																				
15U	518.7	527.7	24.74	36.12	39.14	21703					.74																				
16U	527.7	534.0	35.03	30.92	34.05	18431					.72																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0081

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.6	26.2																					
1U	26.2	31.6	59.02	22.09	18.89	9950					.29												
1001C	27.4	74.8	38.55	31.36	30.09	16254	41.26	3.49	.90	.02	.68	15.10	+1482	+1482	+1482	+1482	51.50	32.99	1.12	6.64	2.32		45
													+1482	+1482	+1482	+1482	1.43	.92	.99	.40	1.36 +	.33	
2U	31.6	36.5	38.67	30.41	30.92	16812					.70												
3U	36.5	40.2	31.09	33.92	34.99	18877					.81												
4U	40.2	43.1	19.50	38.21	42.29	22694					.62												
5U	43.1	51.8	34.28	31.39	34.33	17931					.69												
6U	51.8	61.2	36.27	32.73	31.00	16903					1.07												
7U	61.2	66.9	29.94	35.95	34.11	19512					.56												
8U	66.9	74.8	50.11	25.79	24.10	12386					.41												
9U	74.8	82.6	35.09	30.70	34.21	17977					.66												
1002C	74.8	125.5	43.09	29.90	27.01	14602	38.26	3.16	.95	.02	.48	14.04	+1482	+1482	+1482	+1482	50.57	32.49	1.04	8.58	2.40		47
													+1482	+1482	+1482	+1482	1.25	.82	.68	.28	1.54 +	.35	
10U	82.6	87.7	55.75	24.10	20.15	10325					.30												
11U	87.7	96.3	44.33	28.64	27.03	13958					.54												
12U	96.3	104.8	56.60	24.22	19.18	10108					.40												
13U	104.8	115.2	36.97	33.23	29.80	16489					.48												
14U	115.2	125.5	26.72	34.46	38.82	20494					.57												
15U	125.5	129.8	55.36	24.29	20.35	10829					.45												
1003C	125.5	175.2	48.63	27.92	23.45	13172	34.10	2.95	.66	.02	.52	13.12	+1482	+1482	+1482	+1482	53.36	29.91	1.01	7.67	2.42		49
													+1482	+1482	+1482	+1482	1.34	1.06	.98	.38	1.51 +	.36	
16U	129.8	134.1	56.16	23.20	20.64	10415					.35												
17U	134.1	144.4	32.86	33.18	33.96	18315					.54												
18U	144.4	154.5	29.25	33.29	37.46	19622					.55												
19U	154.5	161.2	59.79	21.77	18.44	9729					.37												
20U	161.2	164.8	46.93	26.24	26.83	14090					.70												
21U	164.8	175.2	60.16	23.06	16.78	9236					.49												
22U	175.2	187.7	43.47	28.37	28.16	14635					.48												
1004C	175.2	222.1	51.05	27.54	21.41	12351	32.34	2.76	.56	.04	.59	12.66	1459	1462	1465	+1482	51.84	29.45	1.13	8.99	2.40		52
													+1482	+1482	+1482	+1482	1.72	1.05	1.02	.26	1.87 +	.27	
23U	187.7	192.6	74.64	15.68	9.68	5021					.25												
24U	192.6	199.9	40.07	29.27	30.66	16316					.70												
25U	199.9	204.0	57.27	21.90	20.83	10385					.51												
26U	204.0	211.2	35.27	32.31	32.42	17575					1.08												
27U	211.2	222.1	58.06	25.47	16.47	9608					.55												
2002U	222.1	224.6																					
28U	224.6	234.0	67.16	20.45	12.39	6812					.35												
1005C	224.6	249.9	54.42	25.50	20.08	11285	29.69	2.71	.58	.03	.50	12.07	1465	+1482	+1482	+1482	53.46	28.78	.97	8.05	2.79		57
													+1482	+1482	+1482	+1482	1.60	1.07	1.00	.27	1.56 +	.45	
29U	234.0	242.3	57.84	22.94	19.22	10013					.44												
30U	242.3	249.9	45.14	28.43	26.43	14402					.57												
2003U	249.9	253.4																					
31U	253.4	260.7	46.23	27.33	26.44	13890					.53												
1101C	253.4	272.7	54.42	25.50	20.08	11285	29.69	2.71	.58	.03	.50	12.07	1465	+1482	+1482	+1482	53.46	28.78	.97	8.05	2.79		57
													+1482	+1482	+1482	+1482	1.60	1.07	1.00	.27	1.56 +	.45	
32U	260.7	265.1	65.58	23.31	11.11	6187					.26												
33U	265.1	272.7	39.99	30.56	29.45	16407					.69												
2004U	272.7	275.5																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0081

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	UND+ER	GRIND INDEX
													ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3		
34U	275.5	285.2	45.16	27.04	27.80	14546					.66												
1006C	275.5	303.8	46.05	27.88	26.07	14121	36.79	3.14	.79	.01	.65	12.57	+1482	+1482	+1482	+1482	56.07	29.98	1.05	6.57	1.44		55
													+1482	+1482	+1482	+1482	1.35	1.06	.99	.27	.78	+ .44	
35U	285.2	294.1	47.83	25.96	26.21	12983					.59												
36U	294.1	303.8	43.22	26.88	29.90	15139					.62												
2005U	303.8	319.7																					
37U	319.7	325.5	54.30	23.02	22.68	11746					.34												
1007C	319.7	329.7	63.84	22.50	13.66	8073	22.42	1.99	.24	.01	.31	11.19	1462	1465	+1482	+1482	56.07	27.81	.94	9.13	1.76		65
													+1482	+1482	+1482	+1482	1.27	.70	1.12	.22	.87	+ .11	
38U	325.5	329.7	67.37	20.35	12.28	6405					.22												
2006U	329.7	332.5																					
39U	332.5	335.8	71.09	21.70	7.21	5414					.37												
1102C	332.5	335.8	63.84	22.50	13.66	8073	22.42	1.99	.24	.01	.31	11.19	1462	1465	+1482	+1482	56.07	27.81	.94	9.13	1.76		65
													+1482	+1482	+1482	+1482	1.27	.70	1.12	.22	.87	+ .11	
40U	335.8	351.1	41.12	29.51	29.37	15807					.62												
1008C	335.8	408.4	38.64	32.36	29.00	16158	42.37	3.36	.18	.02	.75	14.68	1234	1248	1251	1254	46.92	28.56	.96	9.97	6.63		49
													1321	1348	1359	1393	2.38	.84	.56	.36	2.77	+ .05	
41U	351.1	366.3	32.51	31.31	36.18	19066					.58												
42U	366.3	380.3	39.42	33.07	27.51	14456					.94												
43U	380.3	394.7	38.60	31.91	29.49	16251					.57												
44U	394.7	401.7	34.67	31.40	33.93	17847					.62												
45U	401.7	408.4	44.57	27.28	28.15	14451					.95												
46U	408.4	415.7	54.00	25.16	20.84	10788					.43												
1009C	408.4	481.5	53.82	24.86	21.32	11413	29.90	2.67	.56	.01	.69	12.35	+1482	+1482	+1482	+1482	56.06	29.84	.98	6.76	1.77		57
													+1482	+1482	+1482	+1482	1.28	.80	.99	.26	.97	+ .29	
47U	415.7	422.4	40.27	27.89	31.84	16372					.79												
48U	422.4	427.3	57.98	23.70	18.32	10073					1.74												
49U	427.3	432.8	63.57	21.42	15.01	7906					.52												
50U	432.8	440.7	29.57	33.61	36.82	19724					.90												
51U	440.7	445.9	71.66	16.50	11.84	5631					.45												
52U	445.9	454.7	37.69	31.15	31.16	17407					.69												
53U	454.7	468.1	62.10	22.08	15.82	8429					.46												
54U	468.1	475.7	44.44	26.11	29.45	14544					.65												
55U	475.7	481.5	68.99	17.77	13.24	6196					.31												
2007U	481.5	488.2																					
56U	488.2	494.9	56.77	21.85	21.38	10348					.54												
1010C	488.2	511.4	61.58	23.44	14.98	8438	23.76	2.23	.34	.04	.46	11.59	1409	1415	1437	1471	55.05	27.40	.92	7.80	3.34		57
													1471	+1482	+1482	+1482	2.01	.67	1.00	.26	1.50	+ .05	
57U	494.9	502.9	59.23	21.74	19.03	10271					.45												
58U	502.9	511.4	48.45	24.78	26.77	13423					.71												
2008U	511.4	514.8																					
59U	514.8	517.5	57.25	20.98	21.77	10534					.58												
1103C	514.8	529.1	61.58	23.44	14.98	8438	23.76	2.23	.34	.04	.46	11.59	1409	1415	1437	1471	55.05	27.40	.92	7.80	3.34		57
													1471	+1482	+1482	+1482	2.01	.67	1.00	.26	1.50	+ .05	
60U	517.5	520.1	61.79	21.18	17.03	8548					.38												
61U	520.1	525.6	74.92	20.67	4.41	3121					.25												
62U	525.6	529.1	56.67	24.60	18.73	10599					.64												
63U	529.1	535.0	84.52																				
64U	535.0	540.1	66.41	19.39	14.20	7454					.35												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0081

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
65U	540.1	543.3	73.30	18.77	7.93	4612					.24																				
1104C	540.1	543.3	61.58	23.44	14.98	8438	23.76	2.23	.34	.04	.46	11.59	1409	1415	1437	1471	1471	+1482	+1482	+1482	55.05	27.40	.92	7.80	3.34	2.01	.67	1.00	.26	1.50 +	.05	57
2009U	543.3	545.5																														
66U	545.5	549.5	71.80	17.86	10.34	5007					.69																				
1105C	545.5	560.2	61.58	23.44	14.98	8438	23.76	2.23	.34	.04	.46	11.59	1409	1415	1437	1471	1471	+1482	+1482	+1482	55.05	27.40	.92	7.80	3.34	2.01	.67	1.00	.26	1.50 +	.05	57
67U	549.5	560.2	57.57	25.84	16.59	9457					.40																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0082

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.0	55.4																					
2002U	55.4	140.2																					
1U	140.2	145.2	85.31																				
2U	145.2	154.5	15.76	39.30	44.94	23869					.62												
1001C	145.2	205.2	31.95	33.94	34.11	18684	47.33	4.55	1.32	.00	.67	14.18	1404 +1448	1440 +1448	1448 +1448	+1448 +1448	48.48 .71	30.54 .43	1.63 .11	7.94 .32	4.09 2.76 + 2.99		53
3U	154.5	165.2	28.66	32.67	38.67	19640					.74												
4U	165.2	172.2	38.82	31.30	29.88	15656					.42												
5U	172.2	182.2	45.09	26.76	28.15	14118					.65												
6U	182.2	193.2	33.75	32.84	33.41	17128					.70												
7U	193.2	205.2	36.90	30.96	32.14	16116					.65												
8U	205.2	213.3	39.21	28.67	32.12	16291					.73												
1002C	205.2	264.8	46.27	28.21	25.52	13742	35.42	3.62	.76	.00	.66	13.27	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	53.36 .60	31.39 .33	1.68 .11	5.50 .19	2.41 1.90 + 2.53		67
9U	213.3	218.0	35.42	34.58	30.00	15854					.54												
10U	218.0	228.9	46.31	31.57	22.12	13309					.46												
11U	228.9	238.8	54.95	23.23	21.82	10669					.68												
12U	238.8	248.1	50.59	26.42	22.99	12118					.58												
13U	248.1	259.0	34.89	31.13	33.98	17749					.68												
14U	259.0	264.8	51.20	24.77	24.03	11583					.64												
2003U	264.8	281.6																					
15U	281.6	290.0	54.38	25.50	20.12	10320					.42												
1003C	281.6	305.1	49.98	26.05	23.97	12518	33.24	3.36	.90	.00	.57	11.95	1373 +1448	+1448 +1448	+1448 +1448	+1448 +1448	54.50 1.45	26.95 .29	1.61 .11	10.08 .22	1.89 1.66 + 1.24		73
16U	290.0	305.1	39.00	30.49	30.51	16291					.57												
2004U	305.1	313.0																					
17U	313.0	320.9	44.18	24.72	31.10	13037					.71												
1101C	313.0	326.8	49.98	26.05	23.97	12518	33.24	3.36	.90	.00	.57	11.95	1373 +1448	+1448 +1448	+1448 +1448	+1448 +1448	54.50 1.45	26.95 .29	1.61 .11	10.08 .22	1.89 1.66 + 1.24		73
18U	320.9	326.8	57.89	21.05	21.06	10087					.56												
2005U	326.8	330.5																					
19U	330.5	340.4	54.15	25.96	19.89	10704					.47												
1102C	330.5	340.4	49.98	26.05	23.97	12518	33.24	3.36	.90	.00	.57	11.95	1373 +1448	+1448 +1448	+1448 +1448	+1448 +1448	54.50 1.45	26.95 .29	1.61 .11	10.08 .22	1.89 1.66 + 1.24		73
20U	340.4	344.1	57.37	24.97	17.66	9306					.37												
21U	344.1	349.9	80.01																				
22U	349.9	359.3	47.85	28.90	23.25	13869					.73												
1004C	349.9	366.9	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
23U	359.3	366.9	50.86	25.49	23.65	12686					.73												
2006U	366.9	373.3																					
24U	373.3	380.3	55.58	22.45	21.97	11025					.41												
1103C	373.3	399.2	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
25U	380.3	388.9	70.09	17.64	12.27	5168					.46												
26U	388.9	399.2	57.14	21.69	21.17	10315					.55												
2007U	399.2	405.2																					
27U	405.2	411.7	47.58	26.51	25.91	13439					.68												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0082

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
1104C	405.2	411.7	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
2008U	411.7	414.5																					
28U	414.5	420.0	44.39	27.28	28.33	14688					.75												
1105C	414.5	420.0	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
2009U	420.0	423.3																					
29U	423.3	430.3	56.37	25.93	17.70	9618					.50												
1106C	423.3	430.3	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
2010U	430.3	433.2																					
30U	433.2	439.2	56.63	23.23	20.14	10257					.69												
1107C	433.2	439.2	54.17	24.84	20.99	11074	30.27	3.24	.83	.00	.64	10.85	1396 +1448	1434 +1448	1443 +1448	1448 +1448	55.98 1.45	26.57 .35	1.66 .31	9.15 .29	1.19 1.44 + 1.61		78
2011U	439.2	526.3																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0085

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.6	65.2																					
2002U	65.2	224.4																					
1U	224.4	228.6	86.55																				
2U	228.6	240.4	23.81	36.02	40.17	21501					.66												
1001C	228.6	271.8	26.09	34.95	38.96	20501	52.02	4.02	.76	.02	.61	16.48	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	49.65 1.04	34.97 1.41	1.16 .75	6.44 .23	2.55 1.74 +	.06	47
3U	240.4	252.3	27.80	34.62	37.58	19919					.57												
4U	252.3	255.5	38.37	30.62	31.01	16254					.48												
5U	255.5	262.7	22.03	36.18	41.79	22043					.58												
6U	262.7	271.8	25.37	35.18	39.45	21108					.78												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0088

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO	UND+ER	GRIND INDEX
													ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3		
2001U	0.9	15.2																					
2002U	15.2	48.7																					
1U	48.7	64.0	31.34	36.94	31.72	18982					.62												
1001C	48.7	109.7	27.96	37.77	34.27	19501	50.11	5.11	.92	.04	.48	15.38	1171	1326	+1343	+1371	51.58	27.40	.85	9.90	2.93		35
													1293	1354	1454	+1454	1.66	1.17	.82	.30	2.34 + 1.05		
2U	64.0	79.2	24.03	37.46	38.51	21159					.41												
3U	79.2	94.4	19.63	39.44	40.93	22755					.52												
4U	94.4	109.7	32.31	35.30	32.39	18740					.50												
5U	109.7	125.5	35.78	33.42	30.80	17621					.54												
1002C	109.7	166.7	33.54	35.14	31.32	17477	45.96	5.16	.90	.08	.83	13.53	+1398	+1398	+1398	+1398	51.99	29.85	.88	8.13	1.75		40
													+1426	+1426	+1426	+1482	1.41	1.20	1.02	.47	1.43 + 1.87		
6U	125.5	136.5	26.21	36.41	37.38	20573					.88												
7U	136.5	142.3	35.89	32.99	31.12	17596					.73												
8U	142.3	151.4	38.95	31.13	29.92	16749					.77												
9U	151.4	155.4	12.27	41.37	46.36	24844					.77												
10U	155.4	166.7	34.22	34.01	31.77	18114					.61												
11U	166.7	170.0	15.99	40.13	43.88	23822					.62												
1003C	166.7	222.1	33.64	33.89	32.47	17607	45.60	4.27	.97	.04	.73	14.75	+1365	+1365	+1365	+1365	54.19	31.97	.88	4.56	1.49		47
													+1459	+1459	+1459	+1482	1.28	1.38	1.18	.65	1.86 + .56		
12U	170.0	175.4	33.48	33.99	32.53	18331					.62												
13U	175.4	179.0	20.07	37.86	42.07	22662					.78												
14U	179.0	189.8	43.26	29.92	26.82	14484					.85												
15U	189.8	197.5	45.74	29.97	24.29	13895					.89												
16U	197.5	203.6	36.13	32.46	31.41	17505					.66												
17U	203.6	212.7	33.00	33.40	33.60	18433					.72												
18U	212.7	219.1	38.20	31.83	29.97	16965					.96												
19U	219.1	222.1	30.90	35.66	33.44	19096					.76												
20U	222.1	226.9	40.78	32.03	27.19	15237					.62												
1004C	222.1	279.8	46.21	31.89	21.90	13539	36.05	3.39	.78	.07	.59	12.91	1193	1248	1371	+1371	53.77	23.56	.70	11.51	3.01		57
													1243	1287	1382	1465	1.81	.83	.88	.47	2.27 + 1.19		
21U	226.9	233.9	57.04	27.89	15.07	9694					1.07												
22U	233.9	241.0	36.28	36.47	27.25	17466					.97												
23U	241.0	253.8	50.76	29.24	20.00	11106					.59												
24U	253.8	262.7	39.69	34.47	25.84	15535					.30												
25U	262.7	271.2	46.40	30.43	23.17	13679					.32												
26U	271.2	279.8	39.22	33.52	27.26	15633					.31												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0089

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.3	44.1																					
1U	44.1	58.8	26.53	36.73	36.74	20240					1.05												
1001C	48.7	96.3	32.92	34.12	32.96	18114	46.89	3.64	.97	.05	.68	14.85	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	49.02 1.67	34.74 .84	1.11 .71	7.11 .49	2.66 1.52 +	.13	39
2U	58.8	74.0	36.45	31.34	32.21	16951					.62												
3U	74.0	82.2	25.09	36.27	38.64	20578					.62												
4U	82.2	90.2	29.26	36.84	33.90	19275					.52												
5U	90.2	96.3	46.75	29.74	23.51	13665					.38												
6U	96.3	105.0	40.99	30.65	28.36	15477					.51												
1002C	96.3	117.8	30.88	34.04	35.08	18996	48.66	4.10	1.23	.05	.47	14.61	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	51.47 1.51	33.61 1.07	1.13 .69	6.02 .34	2.77 1.20 +	.19	37
7U	105.0	117.8	22.84	36.43	40.73	21562					.65												
2002U	117.8	120.3																					
8U	120.3	126.4	40.72	30.85	28.43	15665					.43												
1101C	120.3	148.1	30.88	34.04	35.08	18996	48.66	4.10	1.23	.05	.47	14.61	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	51.47 1.51	33.61 1.07	1.13 .69	6.02 .34	2.77 1.20 +	.19	37
9U	126.4	132.8	33.29	33.15	33.56	18131					.43												
10U	132.8	148.1	21.43	38.77	39.80	21973					.40												
11U	148.1	163.3	29.61	34.49	35.90	19359					.56												
1003C	148.1	206.0	26.66	35.78	37.56	20447	51.67	4.09	1.20	.03	.68	15.67	+1482 +1482	+1482 +1482	+1482 +1482	+1482 +1482	50.34 1.27	34.56 1.33	1.14 .71	6.03 .37	2.65 1.25 +	.35	33
12U	163.3	178.6	19.66	37.67	42.67	22536					.81												
13U	178.6	187.4	23.52	37.23	39.25	21438					.59												
14U	187.4	190.8	33.57	33.27	33.16	18228					.84												
15U	190.8	195.6	29.11	34.29	36.60	19540					.72												
16U	195.6	203.6	29.28	34.05	36.67	19554					.63												
17U	203.6	206.0	37.98	30.70	31.32	16754					1.08												
18U	206.0	212.1	83.76																				
2003U	212.1	217.3																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0090

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.6	55.1																					
2002U	55.1	317.2																					
1U	317.2	321.5	67.19	21.86	10.95	6831					.30												
1001C	317.2	334.5	52.47	27.36	20.17	11992	31.44	2.64	.35	.04	.44	12.62	1334	1337	1340	1351	50.69	26.85	1.00	11.28	3.71		62
													1404	1432	1448	+1482	1.97	1.05	1.02	.31	1.76 +	.36	
2U	321.5	324.0	69.27	20.09	10.64	6117					.36												
3U	324.0	328.5	38.81	29.90	31.29	16679					.78												
4U	328.5	334.5	47.71	25.07	27.22	13860					.48												
5U	334.5	340.1	81.90																				
6U	340.1	347.4	43.02	31.45	25.53	13721					.37												
1101C	340.1	347.4	52.47	27.36	20.17	11992	31.44	2.64	.35	.04	.44	12.62	1334	1337	1340	1351	50.69	26.85	1.00	11.28	3.71		62
													1404	1432	1448	+1482	1.97	1.05	1.02	.31	1.76 +	.36	
7U	347.4	351.1	77.87																				
8U	351.1	361.7	42.51	31.95	25.54	14681					.52												
1002C	351.1	406.9	33.55	34.46	31.99	18345	46.64	3.66	.78	.02	.64	14.71	1265	1279	1293	1304	46.81	27.81	.83	11.05	6.49		47
													1354	1384	1407	1448	1.98	1.12	.56	.48	2.72 +	.15	
9U	361.7	377.0	33.89	34.32	31.79	17710					.63												
10U	377.0	392.2	29.35	35.81	34.84	19650					.74												
11U	392.2	406.9	34.86	30.43	34.71	18017					.60												
12U	406.9	419.4	42.74	27.87	29.39	15456					.54												
1003C	406.9	459.6	41.98	29.44	28.58	15226	39.49	3.14	.92	.01	.80	13.66	1473	1479	+1482	+1482	52.04	30.36	1.09	8.04	2.77		62
													+1482	+1482	+1482	+1482	1.51	.84	.56	.32	2.18 +	.29	
13U	419.4	425.5	45.73	29.36	24.91	14137					.78												
14U	425.5	431.2	44.17	28.44	27.39	15056					1.59												
15U	431.2	434.3	57.22	24.54	18.24	10529					1.13												
16U	434.3	440.1	16.32	37.48	46.20	24758					.89												
17U	440.1	443.3	50.76	30.95	18.29	10643					.43												
18U	443.3	450.9	37.86	30.64	31.50	17010					.61												
19U	450.9	459.6	43.00	28.33	28.67	15326					.73												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0091

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.3	7.6																					
2002U	7.6	12.1																					
1U	12.1	16.1	14.46	41.77	43.77	24262					.54												
1001C	12.1	67.0	29.21	35.70	35.09	19077	48.63	4.17	1.06	.02	.64	16.27	+1448	+1448	+1448	+1448	51.44	28.54	1.16	7.86	1.64		57
													+1448	+1448	+1448	+1448	2.03	1.97	1.34	.31	1.46 + 2.25		
2U	16.1	21.4	54.68	28.45	16.87	9732					.31												
3U	21.4	32.3	22.85	36.01	41.14	20975					.55												
4U	32.3	44.1	30.64	33.23	36.13	18731					.51												
5U	44.1	53.3	22.82	35.82	41.36	21383					.55												
6U	53.3	56.5	50.70	26.78	22.52	11316					.37												
7U	56.5	61.4	33.68	33.57	32.75	17431					.56												
8U	61.4	67.0	26.69	34.83	38.48	19859					1.65												
9U	67.0	70.1	71.17	17.16	11.67	4542					.48												
1002C	67.0	112.4	38.97	34.36	26.67	15460	39.85	3.42	.86	.01	.50	16.39	1396	1434	1440	1448	47.84	28.16	.96	12.08	2.73		56
													+1448	+1448	+1448	+1448	1.53	1.51	.80	.37	1.95 + 2.07		
10U	70.1	74.5	44.83	28.89	26.28	13937					.48												
11U	74.5	77.4	65.51	22.74	11.75	5647					.29												
12U	77.4	86.5	26.79	34.44	38.77	19729					.63												
13U	86.5	91.5	61.90	23.01	15.09	7887					.31												
14U	91.5	104.0	36.32	36.61	27.07	15312					.43												
15U	104.0	112.4	17.51	39.86	42.63	22925					.47												
16U	112.4	125.5	31.17	33.45	35.38	18575					.62												
1003C	112.4	174.3	30.71	36.59	32.70	18587	47.39	3.92	.97	.01	.56	16.44	1326	1343	1365	1407	48.74	26.09	1.17	6.81	8.89		56
													1371	1401	1412	1434	1.64	1.91	1.01	.21	2.20 + 1.33		
17U	125.5	134.4	23.96	36.38	39.66	20761					.48												
18U	134.4	140.8	42.10	35.24	22.66	11329					.36												
19U	140.8	153.9	20.13	38.31	41.56	22304					.54												
20U	153.9	158.9	43.66	29.04	27.30	14330					.45												
21U	158.9	162.3	25.46	35.71	38.83	20166					.63												
22U	162.3	165.0	40.60	30.62	28.78	15570					.52												
23U	165.0	169.9	27.74	34.54	37.72	20138					.52												
24U	169.9	174.3	38.23	31.05	30.72	15900					.55												
25U	174.3	178.6	29.91	34.72	35.37	18954					.54												
1004C	174.3	229.5	33.28	34.96	31.76	18049	46.24	4.01	.94	.00	.56	14.97	1423	1434	1448	+1448	48.18	28.92	.84	8.69	4.06		44
													+1448	+1448	+1448	+1448	2.49	2.01	.99	.68	2.22 + .92		
26U	178.6	183.7	25.62	34.58	39.80	20078					.59												
27U	183.7	187.7	50.33	26.43	23.24	12109					.35												
28U	187.7	194.1	36.05	30.15	33.80	17040					.47												
29U	194.1	199.6	15.70	39.38	44.92	24274					.59												
30U	199.6	206.5	30.49	33.84	35.67	18915					.56												
31U	206.5	210.0	60.36	28.49	11.15	5501					.33												
32U	210.0	214.2	45.73	30.08	24.19	13551					.62												
33U	214.2	229.5	28.96	36.32	34.72	19524					.62												
34U	229.5	244.7	22.57	36.75	40.68	21810					.67												
1005C	229.5	294.1	26.32	36.77	36.91	20443	51.76	4.22	1.00	.00	.75	15.95	1248	1265	1309	1343	47.82	24.57	.97	9.45	6.30		50
													1348	1379	1387	1407	2.64	2.26	.80	.38	2.98 + 1.83		
35U	244.7	253.5	27.62	36.26	36.12	20245					.58												
36U	253.5	262.4	22.39	36.91	40.70	21987					.79												
37U	262.4	266.3	33.47	33.02	33.51	18398					.80												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0091

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS								
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
38U	266.3	273.1	29.04	39.47	31.49	17275					.53												
39U	273.1	278.2	23.58	37.50	38.92	21652					.80												
40U	278.2	281.9	22.98	38.83	38.19	21771					.94												
41U	281.9	288.0	29.36	33.96	36.68	19489					.82												
42U	288.0	294.1	33.20	33.65	33.15	18547					.73												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0092

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.6	29.5																					
1U	29.5	45.1	62.24	23.78	13.98	6652					.62												
1001C	33.5	96.6	52.92	29.61	17.47	9997	28.13	2.45	.64	.01	.79	15.06	1257	1259	1262	1265	44.96	28.03	.80	8.53	7.63		75
													1298	1312	1326	1332	4.27	.36	.70	.25	2.52	+ 1.95	
2U	45.1	49.6	39.05	31.66	29.29	16082					.79												
3U	49.6	59.7	50.72	29.67	19.61	11834					.88												
4U	59.7	70.2	53.87	35.44	10.69	7064					.67												
5U	70.2	78.3	65.72	24.07	10.21	6440					.70												
6U	78.3	84.4	45.51	28.83	25.66	14230					1.04												
7U	84.4	90.5	43.84	30.40	25.76	14356					1.10												
8U	90.5	96.6	40.44	30.58	28.98	15665					.96												
2002U	96.6	100.7																					
9U	100.7	107.5	44.86	28.77	26.37	14474					.59												
1002C	100.7	124.0	42.60	29.59	27.81	14823	38.04	3.23	.99	.05	.54	14.55	+1482	+1482	+1482	+1482	51.61	33.64	.99	6.79	2.32		53
													+1482	+1482	+1482	+1482	1.51	.53	.71	.18	1.22	+ .50	
10U	107.5	114.9	40.74	33.23	26.03	13916					.75												
11U	114.9	124.0	37.34	30.19	32.47	16793					.75												
2003U	124.0	127.1																					
12U	127.1	136.2	58.61	24.30	17.09	9194					.41												
1101C	127.1	136.2	42.60	29.59	27.81	14823	38.04	3.23	.99	.05	.54	14.55	+1482	+1482	+1482	+1482	51.61	33.64	.99	6.79	2.32		53
													+1482	+1482	+1482	+1482	1.51	.53	.71	.18	1.22	+ .50	
2004U	136.2	143.2																					
13U	143.2	145.9	49.57	25.97	24.46	12700					.48												
1102C	143.2	145.9	42.60	29.59	27.81	14823	38.04	3.23	.99	.05	.54	14.55	+1482	+1482	+1482	+1482	51.61	33.64	.99	6.79	2.32		53
													+1482	+1482	+1482	+1482	1.51	.53	.71	.18	1.22	+ .50	
2005U	145.9	151.4																					
14U	151.4	166.7	27.48	34.84	37.68	19964					.73												
1103C	151.4	166.7	42.60	29.59	27.81	14823	38.04	3.23	.99	.05	.54	14.55	+1482	+1482	+1482	+1482	51.61	33.64	.99	6.79	2.32		53
													+1482	+1482	+1482	+1482	1.51	.53	.71	.18	1.22	+ .50	
15U	166.7	172.8	78.36																				
16U	172.8	176.6	50.72	28.15	21.13	12004					.64												
1003C	172.8	194.7	48.23	26.93	24.84	13165	33.95	2.93	1.00	.01	.54	13.34	+1482	+1482	+1482	+1482	53.09	34.52	1.05	5.92	1.55		57
													+1482	+1482	+1482	+1482	1.27	.84	.80	.13	.66	+ .17	
17U	176.6	188.3	42.29	29.76	27.95	15142					.53												
18U	188.3	194.7	68.45	19.25	12.30	6566					.33												
19U	194.7	197.2	80.55																				
20U	197.2	206.3	57.63	23.76	18.61	9980					.59												
1104C	197.2	235.3	48.23	26.93	24.84	13165	33.95	2.93	1.00	.01	.54	13.34	+1482	+1482	+1482	+1482	53.09	34.52	1.05	5.92	1.55		57
													+1482	+1482	+1482	+1482	1.27	.84	.80	.13	.66	+ .17	
21U	206.3	213.8	29.87	33.44	36.69	18982					.77												
22U	213.8	218.0	67.06	19.75	13.19	6940					.31												
23U	218.0	225.5	31.05	33.48	35.47	18903					.85												
24U	225.5	235.3	43.53	28.08	28.39	14700					.70												
2006U	235.3	246.2																					
25U	246.2	259.6	38.32	29.77	31.91	16654					.74												
1004C	246.2	305.7	45.73	28.95	25.32	14111	36.39	3.05	.81	.03	.53	13.46	+1482	+1482	+1482	+1482	51.62	29.13	1.02	8.32	2.14		53
													+1482	+1482	+1482	+1482	1.70	1.63	1.01	.30	1.33	+ 1.80	
26U	259.6	270.8	37.37	32.63	30.00	17014					.64												
27U	270.8	273.8	60.16	22.60	17.24	9373					.28												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0092

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	MINERAL ANALYSIS SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
28U	273.8	279.6	73.32	18.21	8.47	4749					.22												
29U	279.6	288.6	47.56	30.03	22.41	12900					.38												
30U	288.6	299.3	32.10	35.45	32.45	18587					.78												
31U	299.3	305.7	44.73	28.93	26.34	14218					.46												
32U	305.7	317.6	28.71	33.68	37.61	19943					.61												
1005C	305.7	364.8	46.12	28.93	24.95	13504	35.79	2.94	.80	.00	.58	13.77	1412	1415	1418	1421	50.89	29.36	.99	7.60	5.00		56
													1448	1465	+1482	+1482	1.75	1.07	.95	.20	1.86 +	.33	
33U	317.6	323.5	40.59	37.43	21.98	13023					.45												
34U	323.5	326.7	58.60	25.95	15.45	9034					.51												
35U	326.7	334.9	73.79	18.89	7.32	4005					.24												
36U	334.9	341.3	54.07	24.92	21.01	11350					.60												
37U	341.3	349.4	44.15	28.35	27.50	14870					.71												
38U	349.4	364.8	33.21	32.37	34.42	18277					.74												
39U	364.8	380.0	44.91	28.05	27.04	14211					.59												
1006C	364.8	421.6	45.79	28.31	25.90	13883	36.28	3.03	.78	.02	.64	13.46	+1482	+1482	+1482	+1482	52.13	31.68	.88	7.61	2.88		60
													+1482	+1482	+1482	+1482	1.35	.92	.75	.18	1.36 +	.26	
40U	380.0	395.0	41.09	30.50	28.41	15688					.75												
41U	395.0	398.6	65.89	21.44	12.67	7531					.41												
42U	398.6	407.5	31.69	32.82	35.49	19136					.73												
43U	407.5	416.2	41.41	32.13	26.46	14586					.66												
44U	416.2	421.6	63.81	23.02	13.17	8148					.44												
2007U	421.6	431.5																					
45U	431.5	436.1	54.31	28.64	17.05	9871					.54												
1007C	431.5	444.7	59.64	24.29	16.07	8720	24.68	2.11	.75	.04	.72	12.06	1304	1321	1337	1354	51.74	26.49	.89	9.88	3.83		64
													1365	1384	1390	1398	2.28	1.12	.98	.18	2.19 +	.42	
46U	436.1	444.7	55.08	23.69	21.23	11204					.76												
2008U	444.7	452.4																					
47U	452.4	455.5	61.44	20.88	17.68	9452					.65												
1105C	452.4	463.2	59.64	24.29	16.07	8720	24.68	2.11	.75	.04	.72	12.06	1304	1321	1337	1354	51.74	26.49	.89	9.88	3.83		64
													1365	1384	1390	1398	2.28	1.12	.98	.18	2.19 +	.42	
48U	455.5	459.9	64.05	30.47	5.48	5770					.42												
49U	459.9	463.2	51.98	24.21	23.81	12127					.63												
2009U	463.2	478.5																					
50U	478.5	485.5	55.76	27.57	16.67	10132					1.46												
1106C	478.5	490.7	59.64	24.29	16.07	8720	24.68	2.11	.75	.04	.72	12.06	1304	1321	1337	1354	51.74	26.49	.89	9.88	3.83		64
													1365	1384	1390	1398	2.28	1.12	.98	.18	2.19 +	.42	
51U	485.5	490.7	66.75	20.18	13.07	7447					.68												
2010U	490.7	493.4																					
52U	493.4	499.8	66.34	22.64	11.02	6666					.57												
1107C	493.4	508.1	59.64	24.29	16.07	8720	24.68	2.11	.75	.04	.72	12.06	1304	1321	1337	1354	51.74	26.49	.89	9.88	3.83		64
													1365	1384	1390	1398	2.28	1.12	.98	.18	2.19 +	.42	
53U	499.8	508.1	61.40	24.39	14.21	8443					.75												
2011U	508.1	514.1																					
54U	514.1	517.8	55.01	21.90	23.09	11620					.61												
1108C	514.1	517.8	59.64	24.29	16.07	8720	24.68	2.11	.75	.04	.72	12.06	1304	1321	1337	1354	51.74	26.49	.89	9.88	3.83		64
													1365	1384	1390	1398	2.28	1.12	.98	.18	2.19 +	.42	
2012U	517.8	558.3																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0093

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
2001U	0.3	24.3																													
2002U	24.3	27.8																													
1U	27.8	32.9	63.06	22.12	14.82	6245					.46																				
1001C	27.8	81.3	22.22	39.98	37.80	21259	53.84	4.69	1.33	.00	.58	17.34	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	51.86	31.57	1.40	3.90	2.90	1.90	.88	1.04	.46	2.57 + 1.52		47
2U	32.9	35.8	32.22	34.85	32.93	17286					.72																				
3U	35.8	50.9	16.99	40.36	42.65	23022					.58																				
4U	50.9	66.1	15.99	42.52	41.49	23383					.48																				
5U	66.1	81.3	19.70	39.17	41.13	22390					.62																				
6U	81.3	91.4	23.21	38.69	38.10	21213					.57																				
1002C	81.3	130.6	23.90	39.36	36.74	21057	52.95	4.54	1.43	.00	.68	16.50	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	53.22	29.77	1.39	5.61	2.13	1.98	.87	1.12	.34	2.12 + 1.45		44
7U	91.4	101.8	21.54	38.59	39.87	21741					.55																				
8U	101.8	107.8	34.33	34.02	31.65	17589					.65																				
9U	107.8	116.7	22.62	37.95	39.43	21510					.59																				
10U	116.7	122.2	21.41	39.50	39.09	21850					.62																				
11U	122.2	130.6	21.69	38.08	40.23	21748					1.08																				
2003U	130.6	141.1																													

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0095

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.3	68.2																					
1U	68.2	83.5	24.93	38.16	36.91	20620					.60												
1001C	69.4	117.6	31.75	36.03	32.22	18775	47.17	4.67	1.00	.00	.77	14.64	+1448	+1448	+1448	+1448	54.82	27.79	1.38	5.92	1.78		44
													+1448	+1448	+1448	+1448	2.62	.69	1.01	.40	2.09 + 1.50		
2U	83.5	98.7	36.75	32.12	31.13	16847					.55												
3U	98.7	109.8	35.41	34.41	30.18	17384					.55												
4U	109.8	117.6	27.52	36.84	35.64	20229					1.79												
5U	117.6	122.2	42.95	30.80	26.25	14598					.65												
1002C	117.6	161.5	39.44	33.46	27.10	16254	40.81	3.86	.92	.00	.66	14.31	+1448	+1448	+1448	+1448	56.90	28.16	1.40	6.93	1.40		46
													+1448	+1448	+1448	+1448	1.53	.71	1.07	.30	1.53 + .07		
6U	122.2	131.0	33.41	34.18	32.41	18014					.60												
7U	131.0	137.3	42.04	30.37	27.59	15242					.65												
8U	137.3	143.5	51.09	28.11	20.80	11778					.42												
9U	143.5	147.8	30.34	34.85	34.81	18584					.68												
10U	147.8	155.4	41.04	30.74	28.22	15488					.58												
11U	155.4	161.5	34.66	32.84	32.50	17824					.74												
2002U	161.5	164.5																					
12U	164.5	172.2	27.78	36.25	35.97	19224					.80												
1003C	164.5	178.9	33.18	33.99	32.83	18177	45.94	4.26	.98	.00	.72	14.92	+1448	+1448	+1448	+1448	55.36	26.08	1.23	6.83	1.61		48
													+1448	+1448	+1448	+1448	2.53	.88	.93	.29	2.00 + 2.26		
13U	172.2	178.9	32.58	34.46	32.96	18415					.80												
2003U	178.9	181.9																					
14U	181.9	186.5	34.45	34.65	30.90	17461					1.14												
1101C	181.9	215.1	33.18	33.99	32.83	18177	45.94	4.26	.98	.00	.72	14.92	+1448	+1448	+1448	+1448	55.36	26.08	1.23	6.83	1.61		48
													+1448	+1448	+1448	+1448	2.53	.88	.93	.29	2.00 + 2.26		
15U	186.5	193.8	41.73	29.77	28.50	15500					.59												
16U	193.8	199.9	44.13	29.20	26.67	14751					.50												
17U	199.9	215.1	25.49	36.44	38.07	20917					.53												
18U	215.1	230.4	29.34	37.55	33.11	19578					.58												
1004C	215.1	265.6	30.15	36.52	33.33	18138	48.65	4.41	.98	.00	.65	15.16	+1448	+1448	+1448	+1448	53.54	29.16	1.18	6.88	1.85		55
													+1448	+1448	+1448	+1448	1.75	1.11	.73	.16	1.67 + 1.97		
19U	230.4	245.6	28.32	35.33	36.35	20064					.73												
20U	245.6	252.0	28.53	36.62	34.85	19671					.54												
21U	252.0	261.5	33.68	33.59	32.73	17928					.60												
22U	261.5	265.6	42.36	30.25	27.39	15230					.89												
23U	265.6	268.2	20.29	36.69	43.02	22655					.62												
1005C	265.6	316.6	36.18	34.16	29.66	17138	43.82	3.98	.83	.00	.93	14.26	1423	1446	1448	+1448	51.10	27.31	1.13	8.51	3.18		46
													+1448	+1448	+1448	+1448	1.99	1.00	.69	.34	3.07 + 1.68		
24U	268.2	273.4	40.47	30.40	29.13	15647					.71												
25U	273.4	287.1	34.28	31.42	34.30	17561					.80												
26U	287.1	290.4	62.31	30.93	6.76	5349					1.25												
27U	290.4	296.7	45.81	29.77	24.42	13295					1.34												
28U	296.7	306.4	31.53	32.62	35.85	19043					.93												
29U	306.4	316.6	27.72	36.26	36.02	20550					.83												
30U	316.6	324.9	33.58	38.03	28.39	17056					.58												
1006C	316.6	365.1	39.81	31.74	28.45	15781	40.41	3.56	.82	.00	.73	14.67	+1448	+1448	+1448	+1448	53.04	27.31	1.17	9.75	1.54		46
													+1448	+1448	+1448	+1448	2.11	1.05	.93	.18	1.52 + 1.40		
31U	324.9	334.3	37.92	29.30	32.78	16449					.77												
32U	334.3	340.3	46.63	26.17	27.20	13674					.94												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0095

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
33U	340.3	353.2	32.54	30.46	37.00	18214					.68																					
34U	353.2	359.2	70.55	18.76	10.69	4807					.58																					
35U	359.2	365.1	30.30	31.57	38.13	19566					.64																					
36U	365.1	370.4	45.79	27.06	27.15	14177					.91																					
1007C	365.1	415.1	49.41	27.74	22.85	12609	33.23	3.22	.83	.00	.88	12.43	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	55.90	26.46	1.16	7.86	1.43	2.03	1.08	.99	.21	1.34 + 1.54		60
37U	370.4	375.5	45.11	26.90	27.99	14418					.89																					
38U	375.5	384.0	26.24	33.44	40.32	20599					.73																					
39U	384.0	388.9	33.96	29.44	36.60	18101					.99																					
40U	388.9	394.5	60.43	21.34	18.23	8910					.70																					
41U	394.5	400.2	69.96	21.40	8.64	4244					1.05																					
42U	400.2	409.3	64.57	22.30	13.13	6871					.61																					
43U	409.3	415.1	44.23	26.98	28.79	14728					.97																					
2004U	415.1	422.7																														
44U	422.7	428.2	61.33	20.84	17.83	8550					.51																					
1008C	422.7	459.3	49.95	27.46	22.59	12574	32.82	3.19	.71	.00	.40	12.93	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	58.72	28.92	1.18	5.00	.59	1.51	1.01	.87	.18	.84 + 1.18		58
45U	428.2	436.4	42.32	28.03	29.65	15658					.44																					
46U	436.4	440.1	47.97	27.05	24.98	13423					.43																					
47U	440.1	449.8	57.24	23.99	18.77	9706					.30																					
48U	449.8	453.3	34.24	31.79	33.97	17963					.36																					
49U	453.3	459.3	47.34	25.43	27.23	13558					.29																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0097

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	GRIND INDEX
													ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3+UND+ER	
2001U	0.0	86.8																				
2002U	86.8	134.4																				
1U	134.4	144.4	27.35	35.63	37.02	20338					.85											
1001C	134.4	188.0	30.09	34.37	35.54	18887	46.30	4.12	.99	.04	.56	17.90	+1482	+1482	+1482	+1482	50.39	33.73	.91	6.42	2.77	45
													+1482	+1482	+1482	+1482	1.67	.92	.89	.40	1.49 + .41	
2U	144.4	154.5	22.06	36.71	41.23	21629					.46											
3U	154.5	157.8	29.15	35.08	35.77	19273					.78											
4U	157.8	173.1	26.72	34.28	39.00	20554					.50											
5U	173.1	188.0	37.92	31.89	30.19	16530					.48											
6U	188.0	192.9	76.75																			
7U	192.9	197.5	25.98	36.31	37.71	20375					.49											
1002C	192.9	222.6	51.20	25.44	23.36	11978	31.92	2.74	1.21	.08	.50	12.35	+1482	+1482	+1482	+1482	51.41	33.13	.94	7.79	2.10	56
													+1482	+1482	+1482	+1482	1.43	.66	.80	.23	1.10 + .41	
8U	197.5	201.7	47.21	26.94	25.85	13572					.67											
9U	201.7	206.6	67.30	20.28	12.42	6738					.32											
10U	206.6	214.1	60.43	22.94	16.63	8575					.37											
11U	214.1	222.6	47.11	27.31	25.58	13723					.58											
2003U	222.6	225.2																				
12U	225.2	234.0	41.06	30.49	28.45	15574					.49											
1003C	225.2	243.3	41.32	30.99	27.69	15214	39.22	3.23	1.27	.06	.58	14.32	+1482	+1482	+1482	+1482	51.12	30.73	.95	8.32	2.38	50
													+1482	+1482	+1482	+1482	1.71	.86	.91	.21	1.10 + 1.71	
13U	234.0	243.3	33.68	33.33	32.99	18319					.58											
2004U	243.3	245.3																				
14U	245.3	249.9	53.25	25.49	21.26	11306					.70											
1101C	245.3	267.6	41.32	30.99	27.69	15214	39.22	3.23	1.27	.06	.58	14.32	+1482	+1482	+1482	+1482	51.12	30.73	.95	8.32	2.38	50
													+1482	+1482	+1482	+1482	1.71	.86	.91	.21	1.10 + 1.71	
15U	249.9	258.4	40.74	30.90	28.36	15814					.50											
16U	258.4	267.6	38.03	31.63	30.34	16589					.58											
17U	267.6	276.7	56.95	24.37	18.68	10357					.48											
1004C	267.6	320.0	54.05	25.83	20.12	10946	30.09	2.40	.72	.03	.50	12.21	1446	1451	1457	1462	52.10	28.83	.87	8.70	2.24	56
													+1482	+1482	+1482	+1482	1.86	.93	1.05	.18	1.28 + 1.96	
18U	276.7	287.7	52.93	26.97	20.10	11434					.52											
19U	287.7	298.7	46.98	27.68	25.34	13497					.47											
20U	298.7	304.4	47.12	26.48	26.40	13737					.58											
21U	304.4	310.1	47.40	26.63	25.97	13418					.68											
22U	310.1	314.5	55.07	24.69	20.24	11118					.39											
23U	314.5	320.0	68.23	19.33	12.44	6736					.45											
2005U	320.0	325.3																				
24U	325.3	331.9	55.92	23.79	20.29	10511					.42											
1005C	325.3	331.9	61.72	22.11	16.17	8555	23.80	2.24	.65	.02	.37	11.20	+1482	+1482	+1482	+1482	55.23	28.99	.94	6.07	2.58	58
													+1482	+1482	+1482	+1482	1.61	.93	1.05	.21	.69 + 1.70	
2006U	331.9	334.5																				
25U	334.5	337.8	74.42	17.02	8.56	4605					.41											
1102C	334.5	357.8	61.72	22.11	16.17	8555	23.80	2.24	.65	.02	.37	11.20	+1482	+1482	+1482	+1482	55.23	28.99	.94	6.07	2.58	58
													+1482	+1482	+1482	+1482	1.61	.93	1.05	.21	.69 + 1.70	
26U	337.8	343.5	71.50	17.91	10.59	5552					.26											
27U	343.5	354.1	55.31	24.13	20.56	10967					.49											
28U	354.1	357.8	61.24	26.23	12.53	7731					.42											
2007U	357.8	359.6																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0097

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
29U	359.6	365.9	38.80	31.99	29.21	16312					.58																				
1006C	359.6	365.9	52.46	26.27	21.27	11832	31.09	2.71	.25	.01	.52	12.96	+1482	+1482	+1482	+1482	+1482	+1482	+1482	+1482	55.08	28.91	.80	7.22	1.91							52
																					1.77	.98	1.11	.12	.99 + 1.11						
2008U	365.9	367.7																														
30U	367.7	374.5	45.56	27.09	27.35	14800					.74																				
1103C	367.7	391.2	52.46	26.27	21.27	11832	31.09	2.71	.25	.01	.52	12.96	+1482	+1482	+1482	+1482	+1482	+1482	+1482	+1482	55.08	28.91	.80	7.22	1.91							52
																					1.77	.98	1.11	.12	.99 + 1.11						
31U	374.5	377.6	66.29	21.19	12.52	7024					.54																				
32U	377.6	388.4	56.38	25.25	18.37	10785					.46																				
33U	388.4	391.2	59.18	21.77	19.05	9680					.38																				
2009U	391.2	396.5																														
34U	396.5	401.1	26.01	34.65	39.34	21217					.72																				
1104C	396.5	405.9	52.46	26.27	21.27	11832	31.09	2.71	.25	.01	.52	12.96	+1482	+1482	+1482	+1482	+1482	+1482	+1482	+1482	55.08	28.91	.80	7.22	1.91							52
																					1.77	.98	1.11	.12	.99 + 1.11						
35U	401.1	405.9	70.46	19.37	10.17	5961					.47																				
36U	405.9	416.6	40.12	30.46	29.42	16095					.50																				
1007C	405.9	459.6	39.85	29.13	31.02	16007	41.31	3.37	.88	.05	.57	13.97	1471	1482	+1482	+1482	50.86	29.05	.92	9.19	2.48											53
													+1482	+1482	+1482	+1482	1.78	1.16	.81	.39	1.51 + 1.85										
37U	416.6	427.3	35.15	33.81	31.04	17510					.34																				
38U	427.3	438.3	36.49	33.44	30.07	17049					.52																				
39U	438.3	448.9	35.67	31.43	32.90	17870					.48																				
40U	448.9	459.6	45.68	28.04	26.28	14284					.74																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0100

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
	LENGTH											OXYGEN BY	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO		GRIND
NO.	FROM	TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	DIFF.	ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3	UND+ER	INDEX
2001U	0.0	1.5																					
2002U	1.5	300.6																					
1U	300.6	309.3	81.43	16.08	2.49	3058					.22												
2U	309.3	317.7	86.38	13.22	0.40	2235					.33												
3U	317.7	330.0	14.86	42.63	42.51	23899					.85												
1001C	317.7	366.6	19.06	41.64	39.30	22336	56.92	5.58	1.24	.05	.61	16.54	+1398	+1398	+1398	+1398	49.10	28.85	.94	9.28	3.64		30
													1371	1415	+1465	+1482	1.56	1.37	.74	.94	2.43	+ 1.15	
4U	330.0	342.2	16.95	39.62	43.43	23318					.58												
5U	342.2	354.4	18.28	39.66	42.06	23108					.45												
6U	354.4	366.6	23.73	38.46	37.81	20782					.39												
7U	366.6	378.8	28.85	34.75	36.40	19382					.73												
1002C	366.6	415.4	34.42	24.07	41.51	17345	45.01	4.49	.87	.05	.66	14.50	+1398	+1398	+1398	+1398	51.67	30.80	.93	8.94	2.61		40
													+1471	+1471	+1471	+1482	1.10	.71	.53	.47	1.22	+ 1.02	
8U	378.8	391.0	33.72	32.88	33.40	17987					.83												
9U	391.0	403.2	40.32	31.95	27.73	15795					.50												
10U	403.2	415.4	31.11	34.07	34.82	18642					.62												
11U	415.4	427.6	36.64	35.07	28.29	16740					.53												
1003C	415.4	459.3	38.05	35.17	26.78	16051	41.76	4.01	.69	.05	.56	14.88	1176	1298	1398	+1398	47.61	30.35	.85	12.91	2.56		42
													1382	1426	+1482	+1482	1.13	.66	.40	.30	2.17	+ 1.06	
12U	427.6	439.8	33.78	35.23	30.99	17517					.63												
13U	439.8	450.1	37.00	33.06	29.94	16612					.53												
14U	450.1	459.3	39.72	32.89	27.39	15921					.52												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0101

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.3	99.6																					
2002U	99.6	164.8																					
1U	164.8	171.4	44.21	31.09	24.70	14625					.68												
1001C	164.8	193.2	35.02	33.02	31.96	17312	44.17	4.02	1.27	.01	.55	14.96	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	51.34 1.03	31.94 1.27	1.99 .96	7.15 .29	.87 1.79 + 1.37		47
2U	171.4	177.3	32.55	32.54	34.91	17849					.51												
3U	177.3	185.3	32.93	33.16	33.91	18133					.48												
4U	185.3	193.2	28.67	33.87	37.46	19294					.50												
5U	193.2	197.5	74.65	17.24	8.11	3754					.24												
1002C	193.2	197.5	69.58	19.95	10.47	5256	16.78	2.20	.58	.00	.44	10.42	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	56.60 .96	28.92 1.23	1.39 .99	7.15 .12	.42 .82 + 1.40		74
2003U	197.5	201.4																					
6U	201.4	206.6	63.34	21.01	15.65	7929					.71												
1101C	201.4	229.2	69.58	19.95	10.47	5256	16.78	2.20	.58	.00	.44	10.42	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	56.60 .96	28.92 1.23	1.39 .99	7.15 .12	.42 .82 + 1.40		74
7U	206.6	213.0	61.48	22.04	16.48	8352					.66												
8U	213.0	221.8	72.86	17.76	9.38	4140					.27												
9U	221.8	229.2	71.87	19.03	9.10	4354					.36												
10U	229.2	240.1	55.13	23.79	21.08	10748					.50												
1003C	229.2	277.0	53.03	25.02	21.95	11630	30.42	3.04	.82	.00	.48	12.21	+1448 +1448	+1448 +1448	+1448 +1448	+1448 +1448	56.50 1.41	28.92 1.40	1.48 1.07	6.93 .18	.39 .85 + .87		57
11U	240.1	249.3	41.59	29.34	29.07	15342					.48												
12U	249.3	264.5	58.77	22.02	19.21	9585					.39												
13U	264.5	270.6	50.90	25.94	23.16	12306					.49												
14U	270.6	276.7	53.22	23.48	23.30	11464					.69												
2004U	276.7	279.1																					
15U	279.1	285.2	56.88	24.83	18.29	10278					.74												
1004C	279.1	285.2	68.78	20.24	10.98	5910	18.39	2.12	.53	.00	.49	9.69	1396 +1448	1423 +1448	1440 +1448	+1448 +1448	57.06 1.87	24.19 1.55	1.39 1.42	8.44 .16	.70 .93 + 2.29		64
2005U	285.2	290.1																					
16U	290.1	300.8	74.05	16.62	9.33	3986					.41												
1102C	290.1	300.8	68.78	20.24	10.98	5910	18.39	2.12	.53	.00	.49	9.69	1396 +1448	1423 +1448	1440 +1448	+1448 +1448	57.06 1.87	24.19 1.55	1.39 1.42	8.44 .16	.70 .93 + 2.29		64
2006U	300.8	308.7																					
17U	308.7	316.2	73.78	15.68	10.54	4133					.30												
1103C	308.7	316.2	68.78	20.24	10.98	5910	18.39	2.12	.53	.00	.49	9.69	1396 +1448	1423 +1448	1440 +1448	+1448 +1448	57.06 1.87	24.19 1.55	1.39 1.42	8.44 .16	.70 .93 + 2.29		64
2007U	316.2	319.4																					
18U	319.4	330.4	77.41	17.87	4.72	3461					.78												
1104C	319.4	356.6	68.78	20.24	10.98	5910	18.39	2.12	.53	.00	.49	9.69	1396 +1448	1423 +1448	1440 +1448	+1448 +1448	57.06 1.87	24.19 1.55	1.39 1.42	8.44 .16	.70 .93 + 2.29		64
19U	330.4	340.7	67.28	19.41	13.31	6191					.30												
20U	340.7	350.0	74.39	15.13	10.48	4233					.27												
21U	350.0	356.6	47.39	26.87	25.74	13704					.58												
22U	356.6	361.1	83.09	13.18	3.73						.16												
23U	361.1	371.2	59.33	21.82	18.85	9501					.47												
1005C	361.1	387.0	59.50	24.64	15.86	9134	25.24	2.58	.73	.01	.37	11.57	1229 1357	1276 1384	1304 1412	1440 1446	54.30 1.78	24.57 1.35	1.38 1.25	8.22 .16	4.20 1.00 + 1.79		60
24U	371.2	380.3	60.37	23.93	15.70	8362					.36												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0101

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
25U	380.3	387.0	74.69	16.93	8.38	3819					.24																					
2008U	387.0	389.5																														
26U	389.5	398.6	51.46	25.53	23.01	12476					.37																					
1105C	389.5	408.7	59.50	24.64	15.86	9134	25.24	2.58	.73	.01	.37	11.57	1229	1276	1304	1440	1357	1384	1412	1446	54.30	24.57	1.38	8.22	4.20	1.78	1.35	1.25	.16	1.00 + 1.79		60
27U	398.6	408.7	53.26	29.33	17.41	9478					.28																					
28U	408.7	420.0	36.13	32.58	31.29	17561					.46																					
1006C	408.7	429.1	37.12	33.17	29.71	17119	43.42	3.73	1.03	.00	.51	14.19	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	52.74	27.79	1.69	9.65	.70	1.70	1.55	.76	.21	1.47 + 1.74		48
29U	420.0	429.1	29.76	34.96	35.28	19324					.44																					
2009U	429.1	432.2																														
30U	432.2	443.1	32.07	32.90	35.03	18726					.56																					
1106C	432.2	459.6	37.12	33.17	29.71	17119	43.42	3.73	1.03	.00	.51	14.19	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	52.74	27.79	1.69	9.65	.70	1.70	1.55	.76	.21	1.47 + 1.74		48
31U	443.1	450.7	46.09	29.17	24.74	13602					.54																					
32U	450.7	459.6	45.39	29.39	25.22	14165					.48																					

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0102

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.3	74.9																					
2002U	74.9	93.5																					
1U	93.5	104.2	22.03	37.51	40.46	21952					.44												
1001C	93.5	145.9	22.98	37.05	39.97	21110	54.27	4.04	1.29	.07	.47	16.88	1415 / 1465	1421 / 1482	1426 / +1482	1437 / +1482	44.21 / 1.68	32.00 / 1.20	.91 / .81	11.68 / .45	3.91 / 2.67 +	.48	40
2U	104.2	111.8	18.62	38.63	42.75	23099					.69												
3U	111.8	116.4	23.14	35.67	41.19	21434					.60												
4U	116.4	126.4	24.86	37.34	37.80	20401					.42												
5U	126.4	133.8	20.04	38.69	41.27	22204					.46												
6U	133.8	145.9	25.92	34.61	39.47	20694					.57												
7U	145.9	158.1	26.09	35.58	38.33	20252					.38												
1002C	145.9	203.6	32.22	34.37	33.41	18005	46.78	3.64	1.22	.05	.58	15.51	1476 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	46.85 / 1.21	32.16 / 1.35	1.03 / .46	10.13 / .18	3.59 / 2.52 +	.52	49
8U	158.1	169.7	27.23	34.54	38.23	19859					.45												
9U	169.7	181.9	37.33	31.46	31.21	16961					.57												
10U	181.9	191.4	37.58	34.54	27.88	16412					.70												
11U	191.4	203.6	36.52	31.46	32.02	17247					.72												
12U	203.6	215.7	23.95	36.99	39.06	21441					1.00												
1003C	203.6	263.6	26.75	35.20	38.05	20122	51.28	3.94	1.17	.03	.66	16.17	1471 / +1482	1476 / +1482	+1482 / +1482	+1482 / +1482	46.38 / 1.12	32.47 / 1.47	.86 / .75	10.89 / .29	3.55 / 1.79 +	.43	46
13U	215.7	227.9	28.16	35.10	36.74	19957					.54												
14U	227.9	240.1	21.44	35.57	42.99	22236					.34												
15U	240.1	251.7	32.01	35.08	32.91	18863					.80												
16U	251.7	256.0	31.94	33.60	34.46	18847					.61												
17U	256.0	263.6	30.45	32.15	37.40	19394					.45												
18U	263.6	268.2	36.01	32.08	31.91	17477					.46												
1004C	263.6	317.9	30.43	32.79	36.78	19184	48.92	3.69	1.16	.06	.53	15.21	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	50.80 / 1.05	32.96 / 1.62	1.05 / .76	6.24 / .31	2.47 / 1.04 +	1.70	50
19U	268.2	280.4	28.21	32.92	38.87	20101					.53												
20U	280.4	293.5	31.68	32.32	36.00	19001					.37												
21U	293.5	305.7	31.91	32.63	35.46	18894					.50												
22U	305.7	317.9	28.98	33.70	37.32	19861					.62												
23U	317.9	330.0	26.72	35.49	37.79	20450					.53												
1005C	317.9	376.4	27.34	34.04	38.62	20240	51.46	3.94	1.20	.06	.48	15.52	+1482 / +1482	+1482 / +1482	+1482 / +1482	+1482 / +1482	50.04 / 1.29	33.68 / 1.62	.98 / .57	5.91 / .39	2.58 / 1.31 +	1.63	50
24U	330.0	342.2	22.92	35.46	41.62	21810					.54												
25U	342.2	354.4	22.74	35.06	42.20	22099					.35												
26U	354.4	366.6	32.26	30.47	37.27	19138					.27												
27U	366.6	376.4	33.98	29.78	36.24	18380					.36												
28U	376.4	388.6	24.51	35.12	40.37	21617					.46												
1006C	376.4	427.3	30.21	34.55	35.24	19340	49.01	3.84	1.04	.05	.62	15.23	1451 / +1482	1454 / +1482	1457 / +1482	1459 / +1482	45.79 / 1.53	32.16 / 1.28	.94 / .70	11.66 / .29	2.92 / 2.20 +	.53	55
29U	388.6	396.2	32.06	34.64	33.30	18354					.63												
30U	396.2	406.6	33.93	34.78	31.29	18456					.51												
31U	406.6	418.1	26.75	33.30	39.95	21045					.67												
32U	418.1	427.3	35.95	33.22	30.83	17296					.66												
33U	427.3	439.5	29.46	35.30	35.24	19878					.52												
1007C	427.3	479.1	30.34	34.71	34.95	19033	49.08	3.72	.97	.01	.53	15.35	1329 / 1376	1332 / 1382	1334 / 1387	1337 / 1396	44.51 / 1.28	30.16 / 1.27	.73 / .31	12.54 / .27	6.36 / 2.52 +	.05	54

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0102

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	MGO	NA2O	K2O	P2O5	SO3	UND+ER	GRIND INDEX
34U	439.5	445.0	35.80	35.41	28.79	16828					.44																				
35U	445.0	456.5	24.50	33.91	41.59	21976					.57																				
36U	456.5	468.7	25.86	34.87	39.27	21113					.67																				
37U	468.7	476.0	31.20	32.83	35.97	19264					.71																				
38U	476.0	479.1	43.67	42.72	13.61	11125					.32																				
39U	479.1	491.3	32.44	33.32	34.24	19056					.78																				
1008C	479.1	532.4	42.76	29.49	27.75	15172	39.10	3.31	.84	.00	.75	13.24	+1482	+1482	+1482	+1482	+1482	+1482	+1482	+1482	53.07	33.68	1.03	6.39	1.91	.56	.93	.22	.11	.86	+ 1.24	63
40U	491.3	499.8	41.11	30.87	28.02	15749					.56																				
41U	499.8	509.3	48.62	27.90	23.48	13404					.57																				
42U	509.3	515.4	46.19	28.26	25.55	14142					.62																				
43U	515.4	521.8	61.47	22.26	16.27	8862					.56																				
44U	521.8	532.4	31.93	31.15	36.92	19282					1.15																				

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0109

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R	ST-R	HT-R	FL-R	SIO2	AL2O3	TIO2	FE2O3	CAO	UND+ER	GRIND INDEX
													ID-O	ST-O	HT-O	FL-O	MGO	NA2O	K2O	P2O5	SO3		
2001U	0.0	83.5																					
2002U	83.5	254.5																					
1U	254.5	259.9	39.44	30.24	30.32	16191					.61												
1001C	254.5	282.5	41.83	27.48	30.69	15414	38.95	3.57	1.14	.03	.59	13.89	+1482	+1482	+1482	+1482	53.98	30.43	.91	6.87	2.13		58
													+1482	+1482	+1482	+1482	1.21	1.48	1.29	.36	1.19 +	.15	
2U	259.9	268.2	47.46	25.21	27.33	13718					.51												
3U	268.2	272.7	34.37	30.42	35.21	18315					.50												
4U	272.7	276.1	40.55	29.60	29.85	15898					.45												
5U	276.1	282.5	33.04	30.48	36.48	18524					.74												
2003U	282.5	288.6																					
6U	288.6	291.6	61.86	18.56	19.58	9401					.83												
1101C	288.6	291.6	41.83	27.48	30.69	15414	38.95	3.57	1.14	.03	.59	13.89	+1482	+1482	+1482	+1482	53.98	30.43	.91	6.87	2.13		58
													+1482	+1482	+1482	+1482	1.21	1.48	1.29	.36	1.19 +	.15	
2004U	291.6	301.9																					
7U	301.9	309.6	78.61																				
8U	309.6	312.1	43.03	27.53	29.44	14660					.56												
1002C	309.6	357.5	43.21	28.82	27.97	14665	38.21	3.14	1.14	.07	.65	13.58	1387	1393	1398	1404	49.35	29.71	.84	9.86	3.59		52
													1418	1423	1434	1443	1.69	1.08	.81	.30	2.17 +	.60	
9U	312.1	315.7	46.32	28.36	25.32	13255					.53												
10U	315.7	326.4	34.99	32.48	32.53	17272					.76												
11U	326.4	336.8	42.16	29.01	28.83	15135					.65												
12U	336.8	343.2	34.43	30.12	35.45	18277					.64												
13U	343.2	345.9	68.27	18.90	12.83	6133					.48												
14U	345.9	357.5	43.11	29.42	27.47	14286					.63												
15U	357.5	360.5	77.47																				
16U	360.5	363.9	68.14	18.65	13.21	6177					.41												
1102C	360.5	363.9	43.21	28.82	27.97	14665	38.21	3.14	1.14	.07	.65	13.58	1387	1393	1398	1404	49.35	29.71	.84	9.86	3.59		52
													1418	1423	1434	1443	1.69	1.08	.81	.30	2.17 +	.60	
2005U	363.9	368.5																					
17U	368.5	377.9	52.89	24.56	22.55	11744					.50												
1003C	368.5	410.8	47.91	27.44	24.65	12990	34.49	3.02	1.12	.04	.53	12.89	1426	1437	1443	1448	49.35	29.89	.81	11.54	2.65		56
													1471	+1482	+1482	+1482	1.66	.97	.69	.23	1.80 +	.41	
18U	377.9	388.3	54.60	26.46	18.94	10643					.45												
19U	388.3	399.5	53.37	28.08	18.55	10943					.54												
20U	399.5	410.8	35.00	31.66	33.34	17321					.69												
2006U	410.8	417.2																					
21U	417.2	422.3	51.65	25.20	23.15	11925					.56												
1004C	417.2	427.3	50.10	24.82	25.08	12816	32.94	2.78	.90	.05	.71	12.52	+1482	+1482	+1482	+1482	56.55	29.88	.95	6.42	1.67		67
													+1482	+1482	+1482	+1482	1.28	1.07	.84	.23	1.07 +	.04	
22U	422.3	427.3	49.77	24.08	26.15	12820					.98												
2007U	427.3	440.4																					
23U	440.4	451.7	49.42	24.42	26.16	13032					.71												
1103C	440.4	451.7	50.10	24.82	25.08	12816	32.94	2.78	.90	.05	.71	12.52	+1482	+1482	+1482	+1482	56.55	29.88	.95	6.42	1.67		67
													+1482	+1482	+1482	+1482	1.28	1.07	.84	.23	1.07 +	.04	

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 75-0110

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS						
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.0	13.4																					
2002U	13.4	307.8																					
1U	307.8	317.6	34.64	39.61	25.75	18021					.58												
1001C	307.8	359.6	24.63	37.70	37.67	20754	52.57	4.38	1.19	.03	.63	16.57	1209 1298	1337 1382	+1415 1432	+1415 +1504	46.32 1.34	29.29 .40	1.15 .99	12.94 .54	2.63 2.37 + 2.03		30
2U	317.6	328.2	20.86	37.41	41.73	22497					.60												
3U	328.2	332.2	26.33	35.27	38.40	20771					.76												
4U	332.2	344.4	20.03	38.03	41.94	22873					.67												
5U	344.4	355.3	24.23	35.87	39.90	21229					.62												
6U	355.3	359.6	23.50	38.72	37.78	21599					.60												
7U	359.6	368.8	30.35	34.29	35.36	19236					.77												
1002C	359.6	413.6	29.22	35.35	35.43	19550	49.65	4.24	.94	.03	.62	15.30	+1421 +1487	+1421 +1487	+1421 +1487	+1421 +1487	50.24 1.06	31.78 .35	1.09 .90	9.08 .40	2.08 2.40 + .62		37
8U	368.8	375.2	33.98	32.19	33.83	17982					.56												
9U	375.2	378.2	50.85	30.83	18.32	10669					.53												
10U	378.2	390.4	29.70	33.88	36.42	19673					.66												
11U	390.4	401.4	23.22	36.03	40.75	21680					.70												
12U	401.4	413.6	24.10	37.76	38.14	21264					.61												
13U	413.6	425.8	30.18	34.04	35.78	19608					.71												
1003C	413.6	459.3	30.46	33.99	35.55	19145	49.27	4.16	.98	.03	.71	14.39	+1421 +1526	+1421 +1526	+1421 +1526	+1421 +1526	53.36 .83	33.56 .45	1.09 .90	5.17 .40	.88 1.71 + 1.65		38
14U	425.8	437.9	27.86	34.17	37.97	20324					.72												
15U	437.9	448.6	29.53	34.35	36.12	19838					.78												
16U	448.6	459.3	36.04	33.19	30.77	17640					.74												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0111

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	SO3	UND+ER	GRIND INDEX
2001U	1.5	24.3																										
2002U	24.3	142.6																										
1U	142.6	154.8	19.07	37.91	43.02	23334					.66																	
1001C	142.6	181.6	25.69	38.74	35.57	20659	52.37	4.82	1.48	.00	.61	15.03	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	49.28	31.57	1.25	9.51	1.68			53
																					.96	1.31	.56	.52	2.11	+ 1.25		
2U	154.8	161.8	27.43	35.68	36.89	19819					.60																	
3U	161.8	169.1	25.29	34.63	40.08	20952					.67																	
4U	169.1	181.6	30.86	33.89	35.25	18915					.58																	
5U	181.6	191.2	43.57	29.10	27.33	14577					.60																	
1002C	181.6	212.7	31.33	38.29	30.38	18840	48.14	4.84	.92	.00	.56	14.21	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	53.86	31.00	1.24	7.51	.87			59
																					.90	1.29	.58	.39	1.72	+ .64		
6U	191.2	202.0	25.87	36.23	37.90	21017					.58																	
7U	202.0	212.7	25.99	36.39	37.62	20778					.57																	

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0113

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R ID-O	ST-R ST-O	HT-R HT-O	FL-R FL-O	SIO2 MGO	AL2O3 NA2O	TIO2 K2O	FE2O3 P2O5	CAO SO3	UND+ER	GRIND INDEX
2001U	0.0	68.5																					
2002U	68.5	230.7																					
1U	230.7	233.3	49.53	25.95	24.52	13476					.56												
1001C	230.7	259.9	33.30	32.69	34.01	17863	46.36	3.45	1.02	.03	.65	15.19	+1482	+1482	+1482	+1482	52.43	32.58	.86	6.00	2.60		47
													+1482	+1482	+1482	+1482	1.24	1.24	.81	.52	1.48 +	.24	
2U	233.3	236.0	77.42																				
3U	236.0	247.8	32.32	33.85	33.83	18698					.64												
4U	247.8	259.9	20.13	39.41	40.46	22964					.77												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0115

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R	ST-R	HT-R	FL-R	ID-O	ST-O	HT-O	FL-O	MINERAL ANALYSIS SIO2	AL2O3	TIO2	FE2O3	CAO	SO3	UND+ER	GRIND INDEX
2001U	0.0	32.0																										
2002U	32.0	94.3																										
1U	94.3	106.6	23.92	39.52	36.56	20559					.49																	
1001C	94.3	139.2	32.97	36.59	30.44	17540	45.74	3.83	.99	.00	.43	16.04	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	50.08	31.26	1.23	9.77	2.73			51
																					1.32	.78	.49	.27	2.07	+ .00		
2U	106.6	119.4	30.13	37.00	32.87	18461					.45																	
3U	119.4	128.4	40.83	35.81	23.36	14128					.40																	
4U	128.4	139.2	37.56	34.68	27.76	16298					.46																	
5U	139.2	151.4	23.87	39.04	37.09	20382					.45																	
1002C	139.2	200.2	25.24	39.87	34.89	19961	51.42	3.82	1.11	.00	.48	17.93	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	51.38	32.79	1.30	7.36	1.78			50
																					1.49	1.11	.56	.29	1.88	+ .06		
6U	151.4	163.6	26.86	37.92	35.22	19345					.57																	
7U	163.6	175.8	24.04	38.60	37.36	20036					.48																	
8U	175.8	188.0	25.85	38.61	35.54	20580					.50																	
9U	188.0	200.2	26.01	37.81	36.18	20199					.50																	
10U	200.2	211.2	31.81	33.80	34.39	17786					.63																	
1003C	200.2	252.0	28.95	36.17	34.88	18733	48.29	3.80	1.11	.00	.57	17.28	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	54.24	30.77	1.24	5.29	1.50			50
																					1.49	1.11	.52	.45	1.93	+ 1.46		
11U	211.2	223.4	28.55	36.54	34.91	18836					.58																	
12U	223.4	230.5	36.22	35.20	28.58	17156					.56																	
13U	230.5	242.9	23.50	39.33	37.17	21515					.69																	
14U	242.9	252.0	31.11	35.33	33.56	17384					.58																	
15U	252.0	263.0	27.46	35.87	36.67	19494					.66																	
1004C	252.0	306.9	26.19	38.23	35.58	19968	50.60	3.85	1.18	.00	.54	17.64	+1448	+1448	+1448	+1448	+1448	+1448	+1448	+1448	50.60	29.39	1.24	8.86	2.06			46
																					1.58	1.08	.46	.32	2.66	+ 1.75		
16U	263.0	275.2	27.29	38.62	34.09	20029					.61																	
17U	275.2	286.5	29.24	36.64	34.12	19331					.46																	
18U	286.5	298.7	21.66	39.79	38.55	20708					.49																	
19U	298.7	306.9	21.01	38.18	40.81	21585					.50																	

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0117

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.0	44.5																					
1U	44.5	48.1	14.64	40.57	44.79	24502					.80												
1001C	46.0	73.1	27.73	36.32	35.95	19996	50.90	4.04	.88	.09	1.06	15.30	1409 1465	1415 +1482	1421 +1482	1432 +1482	47.10 1.73	30.41 1.69	.85 1.08	10.99 .22	3.06 2.46 +	.41	45
2U	48.1	56.0	26.60	34.59	38.81	20775					.87												
3U	56.0	61.1	30.26	35.17	34.57	19038					1.06												
4U	61.1	68.5	28.66	35.21	36.13	19989					.97												
5U	68.5	71.3	36.65	31.91	31.44	17075					.72												
6U	71.3	74.6	29.49	42.90	27.61	18363					2.77												
7U	74.6	80.7	52.38	28.30	19.32	11323					.95												
1002C	74.6	119.3	40.18	31.49	28.33	15763	40.58	3.47	.72	.09	.94	14.02	1473 +1482	1482 +1482	+1482 +1482	+1482 +1482	49.61 1.96	31.29 1.43	.76 .93	9.09 .45	2.60 1.71 +	.17	59
8U	80.7	85.3	37.76	32.63	29.61	16472					.74												
9U	85.3	91.4	47.86	31.43	20.71	12509					.69												
10U	91.4	96.7	25.22	36.39	38.39	21452					.92												
11U	96.7	103.1	40.42	30.59	28.99	16089					.56												
12U	103.1	115.0	25.57	36.53	37.90	21148					1.25												
13U	115.0	119.3	48.49	27.53	23.98	13128					1.02												
14U	119.3	132.8	25.88	37.28	36.84	20966					1.56												
1003C	119.3	167.1	32.10	34.93	32.97	18612	47.47	3.84	1.07	.04	1.40	14.08	1415 1459	1426 1468	1432 +1482	1437 +1482	48.43 1.72	30.33 1.62	.90 1.08	8.42 .32	3.70 2.98 +	.50	57
15U	132.8	145.6	28.84	34.91	36.25	19857					1.06												
16U	145.6	149.6	37.99	32.20	29.81	16872					1.51												
17U	149.6	154.2	34.69	33.97	31.34	17603					1.35												
18U	154.2	160.6	38.42	31.46	30.12	16270					1.01												
19U	160.6	163.6	32.19	33.41	34.40	18824					1.55												
20U	163.6	167.1	41.11	32.56	26.33	15602					2.17												
21U	167.1	175.8	26.86	35.36	37.78	20671					.94												
1004C	167.1	195.3	34.16	33.30	32.54	17770	45.51	3.64	.98	.07	.84	14.80	1404 1446	1415 1454	1421 1465	1432 1482	48.59 1.42	29.73 1.59	.91 1.12	11.14 .13	3.08 2.19 +	.10	55
22U	175.8	184.0	27.05	38.87	34.08	20638					.72												
23U	184.0	188.0	49.64	25.93	24.43	12627					.69												
24U	188.0	192.4	28.23	33.27	38.50	20389					.56												
25U	192.4	195.3	24.02	35.53	40.45	21620					.90												
26U	195.3	200.2	76.32																				
27U	200.2	209.3	39.25	32.40	28.35	16309					1.09												
1101C	200.2	214.8	34.16	33.30	32.54	17770	45.51	3.64	.98	.07	.84	14.80	1404 1446	1415 1454	1421 1465	1432 1482	48.59 1.42	29.73 1.59	.91 1.12	11.14 .13	3.08 2.19 +	.10	55
28U	209.3	214.8	44.80	33.61	21.59	13211					.61												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0118

SAMPLE			PROXIMATE ANALYSIS				ULTIMATE ANALYSIS						FUSION ANALYSIS				MINERAL ANALYSIS							
NO.	LENGTH FROM	LENGTH TO	ASH	VM	F.C.	HHV	C	H	N	CL	S	OXYGEN BY DIFF.	ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.0	48.9																					
1U	48.9	56.6	26.68	36.24	37.08	20536					.68												
1001C	48.9	99.5	35.24	32.10	32.66	17312	44.02	3.68	1.25	.03	.57	15.21	+1482	+1482	+1482	+1482	51.58	35.40	.99	5.08	2.72		50
													+1482	+1482	+1482	+1482	1.25	.79	.87	.17	.99 +	.16	
2U	56.6	64.6	34.48	33.30	32.22	17552					.45												
3U	64.6	78.3	39.40	29.87	30.73	16205					.50												
4U	78.3	81.8	32.54	33.47	33.99	18456					.64												
5U	81.8	87.6	30.18	32.67	37.15	19203					.64												
6U	87.6	93.5	44.50	29.31	26.19	14425					.51												
7U	93.5	99.5	38.23	29.71	32.06	16326					.48												
8U	99.5	109.7	42.68	30.57	26.75	14674					.85												
1002C	99.5	153.9	42.04	29.61	28.35	15139	38.80	3.08	.91	.02	.64	14.51	1415	1426	1434	1448	49.33	31.16	.91	7.77	3.12		58
													1465	1476	+1482	+1482	2.81	1.14	.81	.24	2.35 +	.36	
9U	109.7	121.0	59.04	23.29	17.67	9720					.47												
10U	121.0	130.1	34.12	33.77	32.11	17375					.56												
11U	130.1	133.1	82.90																				
12U	133.1	143.5	34.30	30.52	35.18	18007					.48												
13U	143.5	153.9	30.37	34.69	34.94	19043					1.08												
14U	153.9	161.8	34.10	31.29	34.61	17917					.76												
1003C	153.9	170.0	31.97	33.17	34.86	18533	46.93	3.66	.96	.05	1.27	15.16	+1482	+1482	+1482	+1482	52.59	33.46	.92	5.80	1.96		47
													+1482	+1482	+1482	+1482	1.56	1.73	.97	.14	.74 +	.13	
15U	161.8	170.0	33.69	31.85	34.46	18249					2.11												
16U	170.0	178.9	78.43																				
17U	178.9	190.1	37.70	30.76	31.54	16779					.85												
1101C	178.9	201.1	31.97	33.17	34.86	18533	46.93	3.66	.96	.05	1.27	15.16	+1482	+1482	+1482	+1482	52.59	33.46	.92	5.80	1.96		47
													+1482	+1482	+1482	+1482	1.56	1.73	.97	.14	.74 +	.13	
18U	190.1	201.1	24.15	35.15	40.70	21510					1.35												
19U	201.1	206.8	79.02																				
20U	206.8	220.3	47.59	29.15	23.26	12311					.53												
1004C	206.8	260.9	49.18	28.44	22.38	12374	33.04	2.85	.84	.04	.50	13.55	1421	1429	1437	1448	49.97	30.57	.99	6.84	5.14		60
													1471	1482	+1482	+1482	1.65	1.18	1.02	.33	1.84 +	.47	
21U	220.3	233.7	49.54	27.91	22.55	12872					.70												
22U	233.7	242.9	35.16	30.71	34.13	17926					.61												
23U	242.9	252.0	49.65	27.33	23.02	12588					.39												
24U	252.0	260.9	71.02	17.47	11.51	5863					.27												
25U	260.9	267.3	38.77	31.05	30.18	16423					.64												
1005C	260.9	303.5	36.39	31.55	32.06	16907	43.60	3.36	.98	.06	.67	14.94	1437	1448	1459	1471	51.68	29.33	.93	9.11	2.74		58
													1476	+1482	+1482	+1482	1.66	1.39	.71	.16	1.96 +	.33	
26U	267.3	279.5	35.62	30.49	33.89	17882					.70												
27U	279.5	291.6	39.58	31.19	29.23	15933					.64												
28U	291.6	294.4	29.73	34.50	35.77	19445					.69												
29U	294.4	303.5	35.92	30.36	33.72	17575					.65												

COMPOSITE AND FIELD SAMPLES - DEPOSIT 2
DDH 76-0119

SAMPLE NO.	LENGTH FROM	LENGTH TO	PROXIMATE ANALYSIS ASH	VM	F.C.	HHV	ULTIMATE ANALYSIS C	H	N	CL	S	OXYGEN BY DIFF.	FUSION ANALYSIS ID-R / ID-O	ST-R / ST-O	HT-R / HT-O	FL-R / FL-O	MINERAL ANALYSIS SIO2 / MGO	AL2O3 / NA2O	TIO2 / K2O	FE2O3 / P2O5	CAO / SO3	UND+ER	GRIND INDEX
2001U	0.6	42.6																					
2002U	42.6	145.8																					
1U	145.8	160.7	25.09	40.19	34.72	21062					1.41												
1001C	148.5	160.7	34.46	35.09	30.45	17428	44.66	3.63	1.41	.00	.75	15.09	1434 / +1448	1448 / +1448	+1448 / +1448	+1448 / +1448	54.02 / 1.41	26.08 / .92	1.21 / .80	7.98 / .41	2.94 / 2.76	+ 1.47	49
2003U	160.7	163.8																					
2U	163.8	168.7	41.21	31.98	26.81	15179					.78												
1101C	163.8	206.3	34.46	35.09	30.45	17428	44.66	3.63	1.41	.00	.75	15.09	1434 / +1448	1448 / +1448	+1448 / +1448	+1448 / +1448	54.02 / 1.41	26.08 / .92	1.21 / .80	7.98 / .41	2.94 / 2.76	+ 1.47	49
3U	168.7	178.9	33.98	34.16	31.86	17203					.57												
4U	178.9	190.8	36.47	35.87	27.66	16398					.44												
5U	190.8	195.0	33.89	37.98	28.13	17584					.45												
6U	195.0	206.3	43.00	31.14	25.86	14702					.44												
7U	206.3	215.4	32.34	35.34	32.32	17617					.65												
1002C	206.3	262.1	33.37	36.30	30.33	17807	45.23	3.85	1.41	.00	.63	15.51	+1448 / +1448	+1448 / +1448	+1448 / +1448	+1448 / +1448	51.24 / 1.53	29.39 / 1.13	1.21 / .76	9.98 / .39	1.82 / 2.41	+ .14	54
8U	215.4	227.6	41.87	32.26	25.87	15207					.54												
9U	227.6	239.8	21.33	40.72	37.95	22085					.52												
10U	239.8	252.0	33.30	36.91	29.79	17798					.57												
11U	252.0	262.1	38.07	32.18	29.75	16530					.71												
12U	262.1	269.4	38.42	33.03	28.55	16219					.78												
1003C	262.1	306.9	42.05	32.69	25.26	14681	38.36	3.34	1.18	.00	.73	14.34	1326 / 1443	1362 / +1448	1379 / +1448	1418 / +1448	49.62 / 1.87	24.57 / 1.06	1.21 / .63	13.93 / .25	3.57 / 2.83	+ .46	59
13U	269.4	279.5	39.53	32.21	28.26	16342					.84												
14U	279.5	286.3	37.93	34.09	27.98	16505					1.13												
15U	286.3	294.7	57.81	27.60	14.59	9308					.45												
16U	294.7	306.9	34.71	36.67	28.62	17079					.51												

APPENDIX IIIB

Statistical Summaries for Proximate, Heating Value, Etc.

HAT CREEK COAL DEVELOPMENT - STATISTICAL ANALYSIS OF TEST DATA

COMBINED DRILL HOLES - EXCLUDING DEPOSIT 1

LAB COMPOSITE SAMPLES - ASH < 60%

PROXIMATE, MOISTURE AND OTHER SUMMARY

	HHV (KJ/KG)	% ASH	% F.C.	% V.M.	% S	% MOISTURES AS RECVD.	% MOISTURES AIR DRY	% MOISTURES RES-IDUAL	% MOISTURES EQUIL.	% CO2	%ALK. AS NA2O	WATER SOLUBLE % NA2O	WATER SOLUBLE % K2O
MAXIMUM	23069	59.64	41.51	41.64	1.40			21.72	30.60		1.29		
MINIMUM	8720	19.06	15.86	22.96	.18			.65	24.20		.06		
RANGE	14349	40.58	25.65	18.68	1.22			21.07	6.40		1.23		
WEIGHTED MEAN	16189	38.78	29.54	31.68	.64			8.79	26.35		.54		
SAMPLE COUNTS	193	193	193	193	193			193	15		193		
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920			7920	862		7920		
ARITHMETIC MEAN	15410	41.10	28.25	30.64	.63			8.57	26.47		.58		
SAMPLE COUNTS	193	193	193	193	193			193	15		193		
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920			7920	862		7920		
STANDARD DEVIATION	3596	10.51	6.41	4.48	.18			4.94	2.10		.27		
COEFF. OF VARIATION %	23.33	25.57	22.69	14.63	28.47			57.68	7.93		46.63		

ULTIMATE SUMMARY

	% C	% H	% N	% CL	% S	% ASH	% OXY	% UNDET +ERR	% OXY (DIFF)
MAXIMUM	57.66	5.58	1.48	2.67	1.40	59.64			17.93
MINIMUM	24.68	2.11	.18	.00	.18	19.06			10.38
RANGE	32.98	3.47	1.30	2.67	1.22	40.58			7.55
WEIGHTED MEAN	41.75	3.69	.93	.06	.64	38.78			14.14
SAMPLE COUNTS	193	193	193	193	193	193			193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920			7920
ARITHMETIC MEAN	39.90	3.54	.91	.04	.63	41.10			13.84
SAMPLE COUNTS	193	193	193	193	193	193			193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920			7920
STANDARD DEVIATION	8.41	.69	.22	.20	.18	10.51			1.55
COEFF. OF VARIATION %	21.09	19.70	24.54	30.97	28.47	25.57			11.21

22 MAY 80 HAT CREEK COAL DEVELOPMENT - STATISTICAL ANALYSIS OF TEST DATA

COMBINED DRILL HOLES - EXCLUDING DEPOSIT 1

LAB COMPOSITE SAMPLES - ASH < 60%

FUSION SUMMARY - CELSIUS

	REDUCING				OXIDIZING			
	INIT. DEFORM	H=W	H=.5W	FLUID	INIT. DEFORM	H=W	H=.5W	FLUID
MAXIMUM	1482	1482	1482	1482	1526	1526	1526	1526
MINIMUM	1171	1198	1209	1221	1243	1287	1309	1326
RANGE	311	284	273	261	283	239	217	200
WEIGHTED MEAN	1415	1427	1434	1439	1445	1452	1456	1461
SAMPLE COUNTS	193	193	193	193	193	193	193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920
ARITHMETIC MEAN	1416	1431	1437	1442	1448	1453	1457	1461
SAMPLE COUNTS	193	193	193	193	193	193	193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920
STANDARD DEVIATION	74	59	53	48	45	37	31	27
COEFF. OF VARIATION %	5.23	4.18	3.70	3.33	3.16	2.55	2.14	1.89
SAMPLE COUNTS OF + DATA								
SAMPLE CORE LENGTHS OF + DATA								

HAT CREEK COAL DEVELOPMENT - STATISTICAL ANALYSIS OF TEST DATA

COMBINED DRILL HOLES - EXCLUDING DEPOSIT 1

LAB COMPOSITE SAMPLES - ASH < 60%

MINERAL SUMMARY - %DRY ASH

	% SIO2	% AL2O3	% TIO2	% FE2O3	% CAO	% MGO	% NA2O	% K2O	% MN3O4	% V2O5	% P2O5	% SO3	% UNDET +ERR
MAXIMUM	58.72	37.83	2.12	14.94	8.89	4.27	2.26	1.34			.94	3.74	3.01
MINIMUM	44.08	23.56	.70	2.78	.32	.50	.15	.03			.11	.28	.00
RANGE	14.64	14.27	1.42	12.16	8.57	3.77	2.11	1.31			.83	3.46	3.01
WEIGHTED MEAN	51.37	30.34	1.16	8.19	2.80	1.45	.95	.70			.30	1.79	.95
SAMPLE COUNTS	193	193	193	193	193	193	193	193			193	193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920			7920	7920	7920
ARITHMETIC MEAN	51.90	30.05	1.15	8.17	2.59	1.49	.95	.73			.28	1.71	.91
SAMPLE COUNTS	193	193	193	193	193	193	193	193			193	193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920			7920	7920	7920
STANDARD DEVIATION	2.86	2.69	.30	2.06	1.40	.51	.42	.33			.11	.62	.68
COEFF. OF VARIATION %	5.52	8.95	26.55	25.25	54.01	34.42	44.82	45.31			39.93	36.52	74.90

MINERAL SUMMARY - MOLE%

	% SIO2	% AL2O3	% TIO2	% FE2O3	% CAO	% MGO	% NA2O	% K2O	% MN3O4	% V2O5	% P2O5	% SO3
MAXIMUM	70.20	27.10	1.99	7.30	11.37	7.70	2.66	1.06			.49	3.42
MINIMUM	54.43	16.99	.64	1.27	.42	.95	.19	.02			.06	.26
RANGE	15.77	10.11	1.35	6.03	10.95	6.75	2.47	1.04			.43	3.16
WEIGHTED MEAN	63.24	22.03	1.08	3.80	3.69	2.66	1.14	.55			.15	1.66
SAMPLE COUNTS	193	193	193	193	193	193	193	193			193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920			7920	7920
ARITHMETIC MEAN	63.76	21.77	1.07	3.78	3.41	2.72	1.13	.57			.14	1.58
SAMPLE COUNTS	193	193	193	193	193	193	193	193			193	193
SAMPLE CORE LENGTHS	7920	7920	7920	7920	7920	7920	7920	7920			7920	7920
STANDARD DEVIATION	3.02	2.07	.29	.99	1.83	.92	.50	.25			.05	.58
COEFF. OF VARIATION %	4.73	9.50	27.11	26.28	53.59	33.89	44.78	45.03			40.44	36.79

APPENDIX IIIC

Ash-Heating Value Regression on Moisture Free Basis

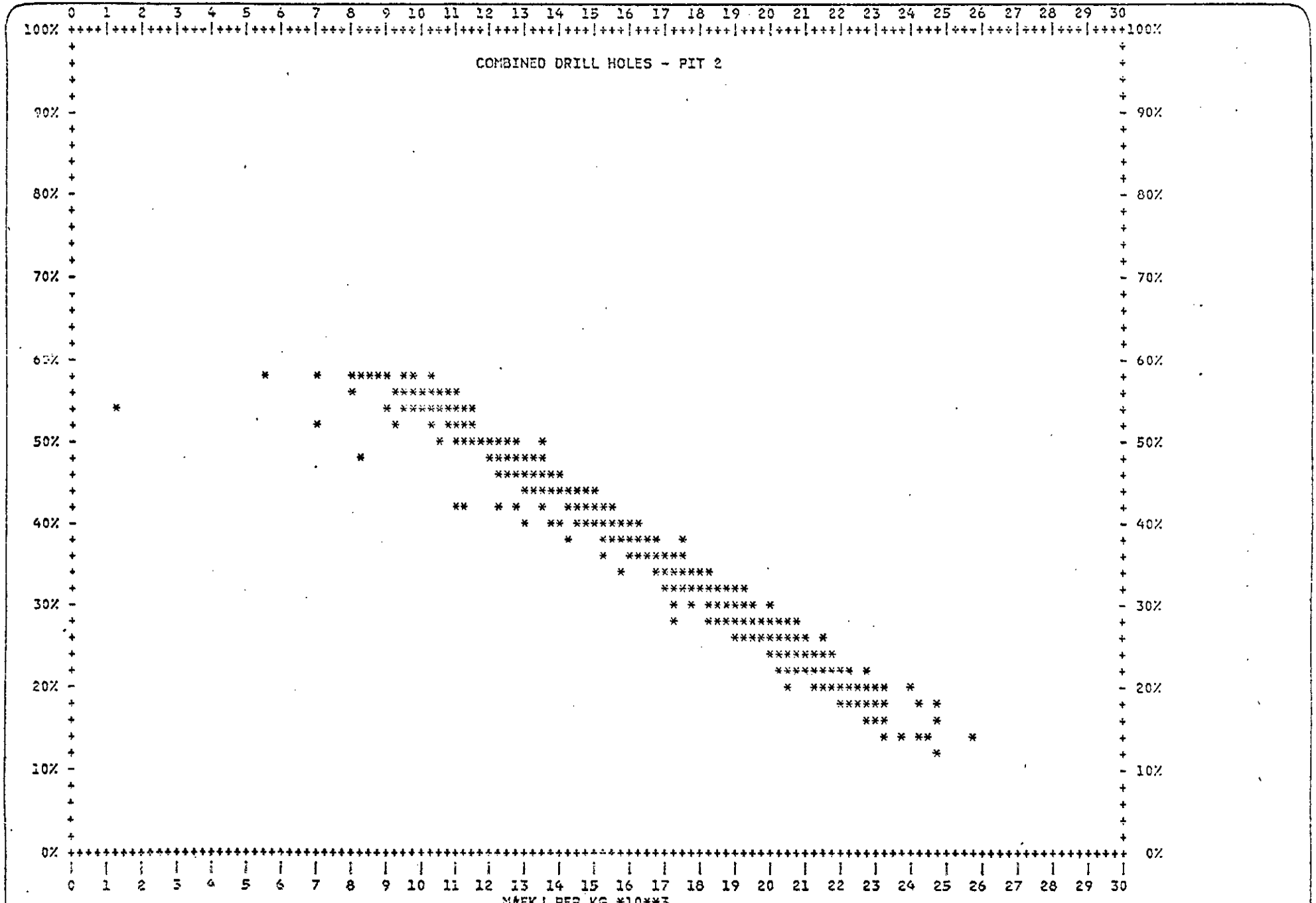
COMBINED DRILL HOLES - PIT 2 (ASH <= 60%)

SAMPLE TYPE	TOTAL LENGTH	COUNT	% ASH	M. FREE KJ/KG
SERIES 1- 899	7270.9	811		
MAXIMUM			59.97	25939
MINIMUM			12.27	1495
RANGE			47.70	24414
WEIGHTED MEAN			36.57	17013
SAMPLE COUNTS		811		
WGTD STANDARD DEVIATION			10.60	3710
WGTD COEFF. OF VARIATION %			28.98	21.81

WEIGHTED REGRESSION EQUATIONS Y = 8.45909E+01 + -2.82283E-03 X WHERE Y = PERCENTAGE OF ASH,
X = 2.99667E+04 + -3.54254E+02 Y X = KJ/KG

WGTD LINEAR CORRELATION COEFFICIENT = -0.9882 R**2 = 0.976539

WGTD STANDARD ERROR OF ESTIMATION = 1.6234 SE**2 = 2.635416


COMBINED DRILL HOLES - PIT 2
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
M#FKJ PER KG *10**3
Y SCALE = 2.0% DRY ASH
X SCALE = 250 KJ
Y INTERCEPT = +084.59
X INTERCEPT = +029966

APPENDIX IIID

Ash-Heating Value Regression on Dry Ash Free Basis

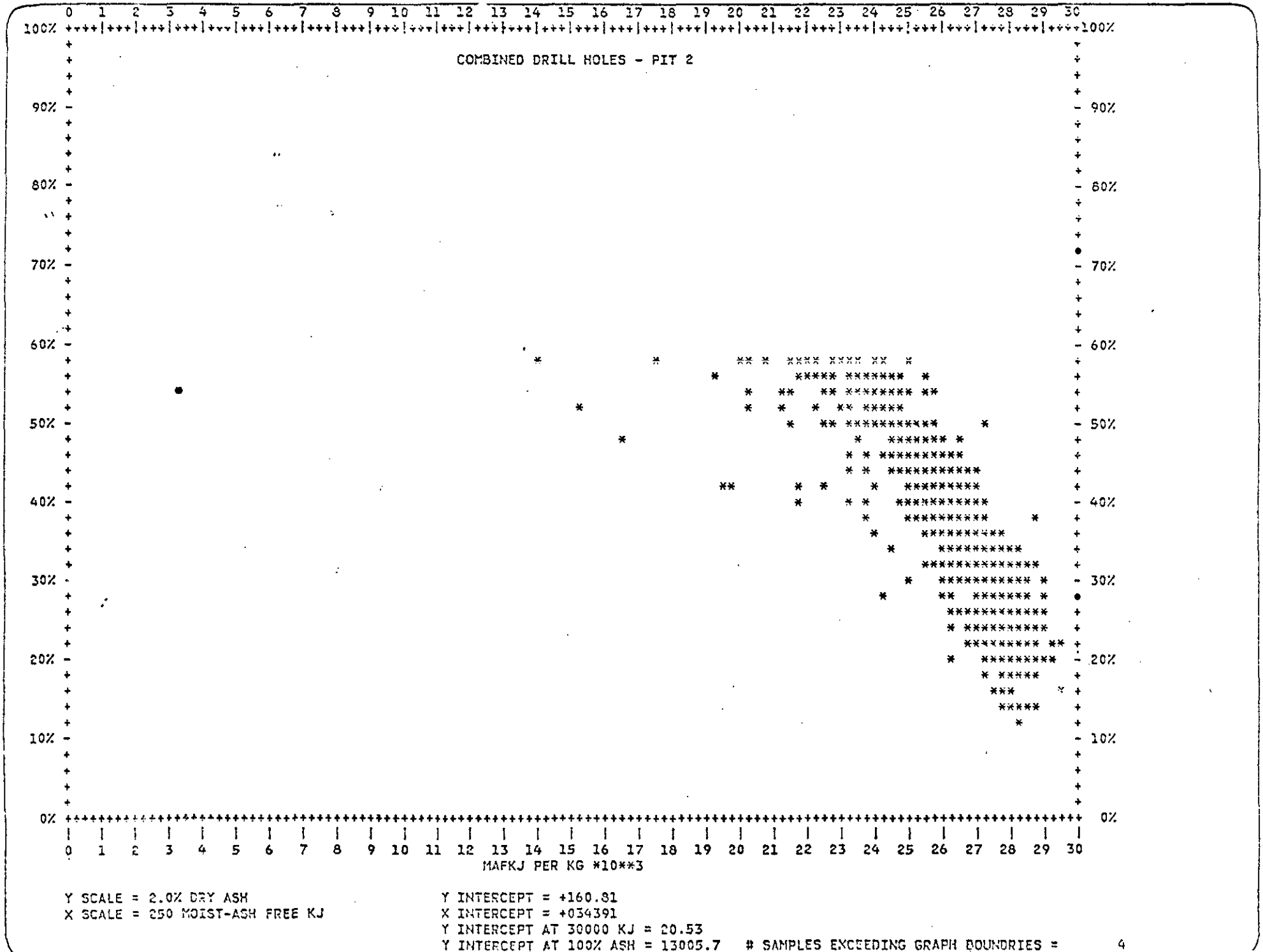
COMBINED DRILL HOLES - PIT 2 (ASH <= 60%)

SAMPLE TYPE	TOTAL LENGTH	COUNT	% ASH	MOIST ASH-FREE KJ/KG
SERIES 1- 899	7270.9	811		
MAXIMUM			59.97	30545
MINIMUM			12.27	3306
RANGE			47.70	27239
WEIGHTED MEAN			36.57	26570
SAMPLE COUNTS		811		
WGTD STANDARD DEVIATION			10.60	1836
WGTD COEFF. OF VARIATION %			28.98	6.91

WEIGHTED REGRESSION EQUATIONS Y = 1.60815E+02 + -4.67604E-03 X WHERE Y = PERCENTAGE OF ASH,
X = 3.43914E+04 + -2.13856E+02 Y X = MOISTURE-ASH FREE KJ/KG

WGTD LINEAR CORRELATION COEFFICIENT = -0.8099 R**2 = 0.655938

WGTD STANDARD ERROR OF ESTIMATION = 6.2166 SE**2 = 38.645500


COMBINED DRILL HOLES - PIT 2
MAFKJ PER KG *10**3
Y SCALE = 2.0% DRY ASH
X SCALE = 250 MOIST-ASH FREE KJ
Y INTERCEPT = +160.81
X INTERCEPT = +034391
Y INTERCEPT AT 30000 KJ = 20.53
Y INTERCEPT AT 100% ASH = 13005.7
SAMPLES EXCEEDING GRAPH BOUNDRIES = 4