



UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lead Isotope Data Bank:
3,458 Samples and Analyses Cited

By

Bruce R. Doe and Randall Rohrbough

Open-File Report 79-661

1977

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

PROLOG

The Lead Isotope Data Bank (LIDB) was initiated to facilitate the plotting of data. Therefore, the Bank reflects data most often used in plotting rather than comprises a comprehensive tabulation of lead isotope data. Until now, plotting was done using card decks processed by computer, with tapes plotted by a Gerber plotter and, more recently, a CRT using a batch mode. The LIDB is now in a format whereby it can be accessed by use of IRIS on the DEC-10 or, more recently, on the Honeywell 68/80 computer at the USGS facility in Denver. Detailed instructions for use of the accessing program are given in Randall Kohrbough and J. S. Stacey, 1976, The Lead Isotope Data Bank; Part II: Retrieval and Plotting; U.S. Geol. Survey Open-File Report 76-763, 62 p.

The compact nature of the Bank allows easy inspection of data, but referencing remains obscure. Sufficient information on references is given, however, so that they may be located in sources such as the USGS Open-File Reports-- E. K. Doe, 1968, A List of References on Lead Isotope Geochemistry through 1966, 97 p.; B. R. Doe, 1971 A List of References on Lead Isotope Geochemistry 1967-1969 (with an addendum to the List through 1966), 27 p.-- and the more recent individual years 1970-74 in L. Cahen (Ed.) "Abstracts of Geochronology and Isotope Geology."

The basic alignment of the LIDB is:

The necessary data for each sample will always take up one card or line. If the longitude and latitude are known, the record for the sample will take up two cards. The formats correspond to standard FORTRAN format statements.

FORMAT	FIELD	COLUMN	USE
FIRST CARD			
A5		1	MAJOR GEOGRAPHIC DIVISION
A3		6	MINOR GEOGRAPHIC DIVISION
A8		9	OTHER DIVISION INFORMATION
A5		17	AGE
A8		22	SAMPLE NUMBER
1X		30	SPACE
A2		31	PHASE
1X		33	SPACE
A6		34	ANALYSIS TYPE
1X		40	SPACE
F7.3		41	PB206/PB204
1X		45	SPACE
F7.3		49	PB207/PB204
1X		56	SPACE
F7.3		57	PB208/PB204

1X	64	SPACE
A3	65	ROCK TYPE
1X	66	SPACE
A4	69	AUTHOR
I2	73	YEAR OF PUBLISHED DATA
A2	75	WHERE PUBLISHED
4X	77	77-80 NOT CURRENTLY USED

SECOND CARD

I4	1	LONGITUDE-DEGREES
1X	5	SPACE
F5.2	6	LONG-MINUTES.DECIMAL SECONDS
2X	11	SPACE
I4	13	LATITUDE-DEGREES
1X	17	SPACE
F5.2	18	LAT-MINUTES.DECIMAL SECONDS
12A5	21	COMMENTS

Thanks are extended to M. H. Delevaux and M. Gallego of the U.S. Geological Survey, each of whom entered several hundred analyses, and to Matti Vaasjoki of the Geological Survey of Finland, who entered the unpublished data on Finland and Svecokarelia.

CONTENTS

	Page
Table of contents and listings of abbreviations (CONTENTS*)	iii
I. Feldspars and U-Th poor minerals (pre-Mesozoic) (FELD)	1
II. Coal (FUELC)	14
III. Gasoline (FUELG)	17
IV. Igneous rocks (Mesozoic and Cenozoic)	
Continental (IGCO)	20
Island Arcs (IGIA)	36
Oceanic Volcanics (IGOV)	42
Ultra Mafic (IGUM)	49
Whole Rock (IGWR)	52
V. Metamorphosed whole rocks	
Cenozoic and Mesozoic (METC)	54
Precambrian and Paleozoic (including all igneous) (METP)	56
VI. Ores	
Major geographic areas beginning with A (ORUTA)	68
Major geographic areas except for U.S. beginning with B-Z (OROTB)	80
U.S. (ORUS)	100
VII. Sediments (Mesozoic and Cenozoic)	
Continental (Mesozoic and Cenozoic) SEDC)	124
Oceanic (SEDO)	127
Precambrian and Paleozoic (SEDF)	130
VIII. Reference samples (REFS)	133

*file name


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EEEEEEEEEEEEEE      NNN      NNN      TTT      SSS SSSSSS

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MAJOR AND MINOR GEOGRAPHIC DIVISION

ANT.-ANTARCTICA
RI-ROSS ISLAND
AUS.-AUSTRIA
AUST-AUSTRALIA
CA-CENTRAL AUSTRALIA
NS-NEW SOUTH WALES
GU-QUEENSLAND
TA-TASMANIA
WA-WESTERN AUSTRALIA
AOP -ATLANTIC OCEAN BASIN
CA-CANARY ARCHIPELAGO
CB-CARIBBEAN ISLANDS
CI-CANARY ISLANDS
CV-CAPE VERDE ARCHIPELAGO
FA-FAIAL
IC-ICELAND
MA-MID ATLANTIC RIDGE
RE-REYKJANES
S.-SOUTH
TC-TRISTAN DE CUNHA
TR-TRINDADE
BOLI-BOLIVIA
BRAZ-BRAZIL
BA-BAHIA
CA-SANTA CATARINA
GO-GOIAS
MG-MINAS GERAIS
PE-PERNAMBUCO
PI-PIAUI
BULG-BULGARIA
CAN.-CANADA
AL-ALBERTA
EC-BRITISH COLUMBIA
HB-HUDSON BAY
NB-NEW BRUNSWICK
NF-NEWFOUNDLAND
NT-NORTHWEST TERRITORIES
ON-ONTARIO
QB-QUEBEC
SA-SASKATCHEWAN
CHIL-CHILE
CHIN-CHINA
HO-HONGKONG
CYP -CYPRUS
DDR -EAST GERMANY
CZEC-CZECHOSLOVAKIA
EGYP-EGYPT
EL-?
EUR.-EUROPE
BS-BALTIC SEA
FIN.-FINLAND
EC-EAST CENTRAL

C.-CENTRAL
 N.-NORTH
 SE-SOUTHEAST
 SW-SOUTHWEST
 W.-WEST
 WC-WEST CENTRAL
 FRA.-FRANCE
 CM-CENTRAL MASSIF
 G.B.-GREAT BRITAIN
 EI-EIRE
 EN-ENGLAND
 NI-NORTH IRELAND
 SC-SCOTLAND
 WA-WALES
 GER -GERMANY
 A-BAVARIA
 J-DUREN
 E.-EAST
 HZ-HARZ MOUNTAINS
 NW-NORTHWEST
 SI-SIEGERLAND
 W.-WEST
 WU-WURZBURG
 GRE.-GREECE
 LA-LAURIA
 GRNL-GREENLAND
 FI-FISKENAESSET
 GO-GODTHAAB
 IS-ISUA IRON FORMATION
 NO-NORDLAND
 SU-SUKKERTOPPEN
 HOLL-HOLLAND
 HUN.-HUNGARY
 BO-BORZSONY MOUNTAIN
 MA-MATRA MOUNTAIN
 ME-MECSEK MOUNTAIN
 NE-NORTHEAST
 TO-TOKAJ MOUNTAIN
 VE-VELENCE MOUNTAIN
 INDI-INDIA
 INDO-INDONESIA
 BE-BELITUNG
 JA-JAVA
 SL-SULAWESI
 SU-SUMATRA
 IOB -INDIAN OCEAN BASIN
 W.-WESTERN
 ITAL-ITALY
 MALA-MALAYA
 MEX.-MEXICO
 HI-HIDALGO
 ZA-ZACATECAS
 MURO-MORCCCO
 N.Z.-NEW ZEALAND

NI-NORTH ISLAND
 RS-RED SEA
 NIGE-NIGERIA
 SW-SOUTHWEST
 NIH -JAPAN
 HK-HOKKAIDO
 HO-HONSHU
 IW-IWATE
 KY-KYUSHU
 NOR.-NORWAY
 AA-AUST-AGDER
 BA-BALLANGEN
 BM-BAMBLE
 DR-DRAMMEN
 EN-ENGDERDAL
 FE-FEMUND
 FI-FINNMARK
 GR-GRUA
 HA-HARDANGERVIDDA
 KO-KUNGSBERG
 LI-LIERDALEN
 MJ-MJOSA
 ND-NORDLAND
 NR-NARVIK
 OS-OSLO
 SU-SULITJELMA
 TE-?
 TR-TROMS
 NETH-NETHERLANDS
 N.AF-NORTH AFRICA
 RS-RED SEA
 PERU-PERU
 C.-CENTRAL ANDES
 NC-NORTH CENTRAL ANDES
 SC-SOUTH CENTRAL ANDES
 POB -PACIFIC OCEAN BASIN
 EA-EASTER ISLAND
 ER-EAST PACIFIC RISE
 GC-GULF OF CALIFORNIA
 GU-GUADALUPE ISLANDS
 JF-JUAN DE FUCA RISE
 KE-KERMADEC ISLANDS
 N-NORTH PACIFIC
 NE-NORTHEAST PACIFIC
 NW-NORTHWEST PACIFIC
 NZ-NAZCA PLATE
 S.-SOUTH PACIFIC
 TO-TONGA ISLANDS
 POL.-POLAND
 CS-CRACOVIAN-SILESIA
 HC-HOLY CROSS
 SI-SILESIA
 RHOD-RHODESIA
 LB-LIMPOPO BELT

RUM A-RUMANIA
 CA-CARPATHIAN
 (RUSSIA-SEE SOV.)
 SAUD-SAUDI ARABIA
 S.AF-SOUTH AFRICA
 BA-BARBARTON RANGE
 ME-MESSINA
 MU-MURCHISON RANGE
 OF-ORANGE FREE STATE
 SOV.-SOVIET UNION
 AL-ALDAN SHIELD
 EA-BALTIC SHIELD
 KO-KOLA PENINSULA
 NS-NORTHERN SIBERIA
 RA-RUDNYI ALTAI
 SK-SVECOKARELIA
 UK-UKRAINE
 SPAN-SPAIN
 CA-SIERRA DE CARTEGENA
 JA-JAEN PROVINCE
 SWED-SWEDEN
 DA-DALARNA
 LP-LAPPLAND
 SE-SOUTHEAST
 SM-SMALAND
 VA-VASTERBOTTEN
 VS-VASTMANLAND
 SWIT-SWITZERLAND
 BE-BERN
 CA-CENTRAL ALPS
 THAI-THAILAND
 TURK-TURKEY
 YEM.-YEMEN
 YUGO-YUGOSLAVIA
 UGAN-UGANDA
 E.-EAST
 U.S.-UNITED STATES
 GL-GREAT LAKES
 XX-TWO SYMBOL ABBREVIATION FOR STATES
 W.AS-WESTERN ASIA
 BK-BLACK SEA
 ZAI.-ZAIRE
 KA-KATANGA
 KB-KIBALI
 KI-KIVU
 UE-UELE
 ZAM.-ZAMBIA
 LU-?
 ND-?

AGE

CAM-CAMBRIAN

CAR-CARBONIFEROUS
CEN-CENOZOIC
CRE-CRETACEOUS
DEV-DEVONIAN
EOC-EOCENE
HOL-HOLOCENE
HUR-HURONIAN
JUR-JURASSIC
KEE-KEEWEENAWAN
KEW-KEWATIN
M-C-MESOZOIC-CENOZOIC
MES-MESOZOIC
MIO-MIOCENE
MIS-MISSISSIPPIAN
NEO-NEOGENE
 () -PRESENT DAY
OLI-OLIGOCENE
ORD-URDOVICIAN
PAE-PALEOCENE
PAL-PALEOZOIC
PEN-PENNSYLVANIAN
PER-PERMIAN
PHA-PHANEROZOIC
QUA-QUATERNARY
PLI-PLIOCENE
PRE-PRECAMBRIAN
SIL-SILURIAN
REC-RECENT
TER-TERTIARY
TIM-TIMISKAMING
TRI-TRIASSIC
 Z - 600-800M.Y.
 Y - 800-1600M.Y.
 X - 1600-2500M.Y.
 W - 2500-3000M.Y.
 V - >3000M.Y.

PHASE

AD-ADULARIA
AN-ANGLESITE
AL-ALLANITE
AP-APATITE
AU-GOLD
BI-BIOTITE
BR-BRINE
CC-CHALCOHITE
CE-CERUSSITE
CH-CHALCOPYRITE
CN-CINNABAR
CR-CRYOLITE
DI-DICPSIDE

EN-ENSTATITE
 GL-GLASS
 GN-GALENA
 HO-HORNBLLENDE
 KF-K FELDSPAR
 KL-K FELDSPAR, LEACH(NOT HF)
 KR-K FELDSPAR, RESIDUE(NOT HF)
 LK-K FELDSPAR, LEACH(HF)
 LP-PLAGIOCLASE, LEACH(HF)
 LY-PYRITE, LEACH
 MT-MAGNETITE
 MU-MUSCOVITE
 OX-OxIDE
 PJ-PLUMBOJAROSITE
 PL-PLAGIOCLASE
 PO-PYRRHOTITE
 PK-PYROMORPHITE
 PT-PLATINUM
 PY-PYRITE
 QU-QUARTZ
 RK-K FELDSPAR, RESIDUE(HF)
 RP-PLAGIOCLASE, RESIDUE(HF)
 RV-VOLATILIZATION RESIDUE
 QP-QUARTZ-PLAGIOCLASE MIXTURE
 SH-ANTIMONITE
 SF-SULFIDES
 SI-SILICA
 SP-SPHENE
 TR-TOURMALINE
 WR-WHOLE ROCK
 WL-WHOLE ROCK, LEACH
 RW-WHOLE ROCK, RESIDUE

(MEANING OF FIRST LETTER FOR SAMPLES TAKEN FROM RUSSELL AND FARQUHAR, 1960)

B : BERN
 C : COLUMBIA
 M : MINNESOTA
 T : TORONTO

ANALYSIS TYPE

AEC1 : ATOMIC ENERGY COMMISSION
 DSP : DOUBLE SPIKE
 DSP-C : DSP CORRECTED FOR RADIOACTIVE DECAY
 DSP-N : DSP NORMALIZED TO ABSOLUTE
 DSP-NC : DSP NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 DSP-R : DSP, RAW DATA
 DSP-V : DSP ANALYSIS OF VOLATILIZED PRODUCT
 GEL : SILICA GEL

GEL-C :GEL CORRECTED FOR RADIOACTIVE DECAY
 GEL-N :GEL NORMALIZED TO ABSOLUTE
 GEL-NC:GEL NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 GEL-R :GEL, RAW DATA
 GEL-V :GEL ANALYSIS OF VOLATILIZED PRODUCT
 3FI :TRIPLE FILAMENT
 3FI-C :3FI CORRECTED FOR RADIOACTIVE DECAY
 3FI-N :3FI NORMALIZED TO ABSOLUTE
 3FI-NC:3FI NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 3FI-R :3FI, RAW DATA
 3FI-V :3FI ANALYSIS OF VOLATILIZED PRODUCT
 PBS :LEAD SULFIDE-AMMONIUM NITRATE OR OXALATE ANALYSIS
 PBS-C :PBS ANALYSIS CORRECTED FOR RADIOACTIVE DECAY
 PBS-N :PBS ANALYSIS NORMALIZED TO ABSOLUTE
 PBS-NC:PBS NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 PBS-R :PBS ANALYSIS, RAW DATA
 PBS-V :PBS ANALYSIS OF VOLATILIZED PRODUCT
 PUB :PUBLISHED
 PUB-C :PUB CORRECTED FOR RADIOACTIVE DECAY
 PUB-N :PUB NORMALIZED TO ABSOLUTE
 PUB-NC:PBS NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 PUB-R :PUB, RAW DATA
 PUB-V :PUB ANALYSIS OF VOLATILIZED PRODUCT
 PBI :LEAD IODIDE ANALYSIS
 PBI-C :PBI CORRECTED FOR RADIOACTIVE DECAY
 PBI-N :PBI NORMALIZED TO ABSOLUTE
 PBI-NC:PBI NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 PBI-R :PBI, RAW DATA
 PBI-V :PBI ANALYSIS OF VOLATILIZED PRODUCT
 MTH :LEAD TETRAMETHYL ANALYSIS
 MTH-C :MTH CORRECTED FOR RADIOACTIVE DECAY
 MTH-N :MTH NORMALIZED TO ABSOLUTE
 MTH-NC:MTH NORMALIZED TO ABSOLUTE AND CORRECTED FOR RADIOACTIVE DECAY
 MTH-R :MTH, RAW DATA
 MTH-V :MTH ANALYSIS OF A VOLATILIZED PRODUCT

ROCK TYPE

AER-AEROSOL
 ALS-ALASKITE
 AND-ANDESITE
 ANG-ANGLESITE
 ANK-ANKARAMITE
 ANO-ANORTHOSITE
 AMP-AMPHIBOLITE
 APL-APLITE
 BAS-BASALT
 BOU-BOULANGERITE
 BSN-BASANITE
 BSS-BASALTIC SS
 CAR-CARBONATITE
 CHA-CHARNOKITE

CHE-CHEMICALS
CRY-CRYOLITE
COA-COAL
COT-COTUNNITE
DAC-DACITE
DIA-DIABASE
DIO-DIORITE
DOL-DOLOMITE
ECL-ECLOGITE
GAB-GABBRO
GAS-GASOLINE
GGN-GRANITE GNEISS
GLA-GLASS
GN-GNEISS
GNC-GRANULITIC GN.
GRA-GRANITE
HAW-HAWAIIITE
H2O-WATER
IF-IRON-FORMATION
INC-INCLUSION
INT-INTERMEDIATE
KER-KERATOPHYRE
KIM-KIMBERLITE
LAT-LATITE
LIM-LIMESTONE
MAF-MAFIC FRACTION
MAR-MARBLE
MEG-MEGACRYST
MEL-MELILITE BASALT
MIG-MIGMATITE
MN-MANGANESE NODULE
MON-MONAZITE
MUG-MUGEARITE
NEP-NEPHELINITE
OBS-OBSIDIAN
OGN-ORTHOGNEISS
ORE-ORE MINERALS
PEG-PEGMATITE
PER-PERIDOTITE
PGN-PARAGNEISS
PHO-PHONOLITE
Q-D-QUARTZ DICRITE
Q-L-QUARTZ LATITE
Q-M-QUARTZ MONZONITE
RDC-RHYODALITE
RHY-RHYOLITE
SED-SEDIMENT
SEG-SEGREGATION
SH-SHALE
SHO-SHOSHONITE
SIN-SINTER, SILIC.
SNO-SNOW
SPI-SPILITE
SS-SANDSTONE

SYN-SYENITE
TON-TONALITE
TRA-TRACYTE
TRB-TRACHYBASALT
TRN-TRONDHJEMITE
TRV-TRAVERTINE
WAC-GREYWACKE
XEN-XENOCRYST

PUBLISHED REFERENCES

A GEOCHIMICA COSMOCHIMICA ACTA
AC ARCHEOLOGICAL CHEMISTRY, ADV. CHEM. SER., AMER. CHEM. SOC. (1975)
AJ JOURNAL GEOLOGICAL SOCIETY AUSTRALIA
AN PROC. ANDESITE CONF. (OREGON DEPT. GEOL. MINERAL INDUS. BULL. 65, 1968)
B GRATON-SALES VOLUME, AIME (ORE DEPOSITS OF THE UNITED STATES)
CG CHEMICAL GEOLOGY
CJ CANADIAN JOURNAL OF EARTH SCIENCE
CM SYMP. TECT. HIST. MINERAL DEPOSITS WEST. CORDILLERA, CAN. MIN. MET. SP. VOL. 8
(1966)
CO CONTRIBUTIONS TO MINERALOGY
D DEEP SEA DRILLING PROGRAM PRELIMINARY REPORT
DE MINERALIUM DEPOSITA
E ECONOMIC GEOLOGY
EM ECONOMIC GEOLOGY MONOGRAPH
F COMPT. RENDUS, PARIS
G GEOLOGICAL SOCIETY OF AMERICA PUBLICATION
GB BULLETIN
GG GEOLOGY
GJ GEOCHEMICAL JOURNAL
GM MEMOIR
GP SPECIAL PAPER
H ECLOGAE GEOLOGICAE HELVETIAE
HG ACTA GEOLOGICA HUNG., v. 10, 1966
I LEAD ISOTOPES IN GEOLOGY (RUSSELL AND FARQUHAR, 1960)
IA INTERNATIONAL ATOMIC ENERGY AGENCY
IC ISOTOPIC AND COSMIC CHEMISTRY (1964)
J AMERICAN GEOPHYSICAL UNION, JOURNAL OF GEOPHYSICAL RESEARCH
JM MONOGRAPH
KI GEOKHIMIYA
L EARTH AND PLANETARY SCIENCE LETTERS
M LEAD ISOTOPE MONOGRAPH 3 (SPRINGER VERLAG)-DOE
NI COLORADO SCHOOL OF MINES PUBLICATION
NA NATIONAL ACADEMY OF SCIENCES PUBLICATION
N NATIONAL BUREAU OF STANDARDS PUBLICATION
NG NORSK GEOLOGISK TIDSSKRIFT
NT NATURE
P JOURNAL OF PETROLOGY
PG THE BLACK SEA: AM. ASSO. PETROL. GEOLOGISTS, MEM. 20 (1974)
R HOT BRINES AND RECENT HEAVY METAL DEPOSITS IN THE RED SEA
(SPRINGER-VERLAG)
RA RADIOKHMIA

RG BULL. RECHERCHES GEOLOGIQUES MINIERES
 RO RHODE ISLAND UNIV., NARRAGANSETT MARINE OCCA. PUB.
 RP VORP. PRIKLADU. RADIOGEOL.
 RS PHIL. TRANS., ROYAL SOCIETY OF LONDON
 RU RADARSKO-METALURSKI ZBORNIK
 S SCIENCE
 SP JOUR. SEDIMENTARY PETROLOGY
 T THE GEOCHRONOLOGY OF EQUATORIAL AFRICA, NORTH HOLLAND PB.,
 1959
 TH THESIS
 TJ GEOLOGISCHES JAHRBUCH, SECTION D
 TW ABHAND. DEUTSCHEN AKADEMIE WISSENSH. BERLIN, CHEM., GEOL., BIOL.
 U U.S. GEOLOGICAL SURVEY PUBLICATION
 UB BULLETIN
 UD OPEN-FILE REPORT
 UP PROFESSIONAL PAPER
 V BULL. VOLCANOLOGIQUE
 W ISOCHRON WEST
 X WRITTEN COMMUNICATION
 Y GEOPHYSICAL LABORATORY ANNUAL REPORT
 ? REPORT WRITTEN, PUBLICATION DATE UNCERTAIN

AUTHOR CONVENTION IS FIRST THREE OR FOUR INITIALS ON SINGLE AUTHORED
 PAPERS, FIRST INITIALS OF LAST NAMES SEPARATED BY HYPHEN ON TWO AUTHOR
 PAPERS, FIRST INITIALS OF LAST NAMES ON MULTIPLE AUTHOR PAPERS, NKOMO IS
 ALWAYS NK.

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FFFFFFFFFFFFFFFF	EEEEEEEEEEEEEEEE	LLL	DDDDDDDDDDDDDD	
FFFFFFFFFFFFFFFF	EEEEEEEEEEEEEEEE	LLL	DDDDDDDDDDDDDD	
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFFFFFFFFFFFFFF	EEEEEEEEEEEEEEEE	LLL	DDD	DDD
FFFFFFFFFFFFFFF	EEEEEEEEEEEEEEEE	LLL	DDD	DDD
FFFFFFFFFFFFFFF	EEEEEEEEEEEEEEEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEC	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEE	LLL	DDD	DDD
FFF	EEEEEEEEEEEEEEEE	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	
FFF	EEEEEEEEEEEEEEEE	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	
FFF	EEEEEEEEEEEEEEEE	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	

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>udd>Iso_db>BDoe>lid>FELD
06/09/77 1401.6 mdt Thu
Disk pages 6.6

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FELDSPARS & U-TH POOR MINERALS(PRE-MESOZOIC)(FELD.GRA) (13 JULY 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204 TYPE REFERENCE

>3000 M.Y.

GREENLAND

GRNL,GO,GODTHAAB(U)	110869	AP	PJB	36.37	16.95	32.01	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	110999	AP	PUB	15.05	13.64	31.35	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155817	AP	PUB	18.90	14.33	31.75	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	AP	PUB	47.66	18.80	33.74	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	AP	PJB	49.26	19.04	34.12	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818C	AP	PUB	55.38	20.01	34.25	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	AP	PUB	18.02	14.25	32.06	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	AP	PUB	18.08	14.34	32.96	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155820	AP	PJB	17.99	14.09	32.34	GGN	BLK	76A

GRNL,GO,GODTHAAB(U)	110999	SP	PUB	36.16	17.74	34.63	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155817	SP	PUB	53.0	20.76	36.94	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	SP	PUB	140.8	35.36	41.00	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	SP	PJB	132.0	33.66	40.10	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	SP	PUB	118.0	32.07	39.79	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	SP	PUB	117.7	32.12	39.90	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155820	SP	PJB	31.45	17.24	36.67	GGN	BLK	76A

ALLANITE WITH ABOUT 5% OXIDES

GRNL,GO,GODTHAAB(U)	110999	AL	PJB	16.20	14.55	37.89	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	AL	PUB	40.64	18.67	118.6	GGN	BLK	76A

GRNL,GO,GODTHAAB(U)	155817	PY	PUB	13.68	13.97	33.50	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	PY	PUB	12.11	13.41	31.83	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155820	PY	PJB	13.37	13.69	38.29	GGN	BLK	76A

MAGNETITE WITH OTHER OXIDES AND A TRACE OF ALLANITE

GRNL,GO,GODTHAAB(U)	110869	MT	PUB	13.85	13.86	32.16	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155817	MT	PJB	15.36	14.44	34.61	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	MT	PUB	23.00	16.58	36.17	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155820	MT	PJB	16.92	14.75	38.19	GGN	BLK	76A

GRNL,GO,GODTHAAB(U)	110869	BI	PUB	21.23	14.19	31.55	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	110999	BI	PJB	11.90	13.26	31.75	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155817	BI	PUB	12.00	13.42	31.98	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	BI	PUB	12.22	13.42	32.13	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155819	BI	PUB	13.41	13.86	33.18	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155820	BI	PJB	12.30	13.43	32.28	GGN	BLK	76A

GRNL,GO,GODTHAAB(U)	110869	PL	PJB	11.51	13.18	31.26	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	110999	PL	PUB	11.41	13.09	31.18	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155817	PL	PJB	11.54	13.16	31.28	GGN	BLK	76A
GRNL,GO,GODTHAAB(U)	155818	PL	PUB	11.43	13.12	31.14	GGN	BLK	76A

GRNL,GO,GODTHAAB(U)155819	PL PJB	11.54	13.19	31.24	GGN BLK 76A
GRNL,GO,GODTHAAB(U)155820	PL PUB	11.46	13.12	31.37	GGN BLK 76A
GRNL,GO,GODTHAAB(U)110869	KF PUB	11.54	13.28	31.53	GGN BLK 76A
GRNL,GO,GODTHAAB(U)155817	KF PUB	11.58	13.27	31.45	GGN BLK 76A
GRNL,GO,GODTHAAB(U)155818	KF PUB	11.41	13.16	31.19	GGN BLK 76A
GRNL,GO,GODTHAAB(U)155819	KF PUB	11.60	13.24	31.44	GGN BLK 76A

SOVIET UNION

SOV.,UK,DNEIPER (V)V1443/11	KF PJB	13.80	14.55	33.20	GRA TGB 63RP
SOV.,UK,DNEIPER (V)V1443/11	KF PUB-C	13.00	14.46	32.40	GRA TGB 63RP

UNITED STATES

MINNESOTA

U.S.,MN,MONTEVID(V)385	KF PBS-N	13.25	14.65	34.11	GGN GDD 75UO
U.S.,MN,MONTEVID(V)385	KF PBS-NC	12.90	14.55	33.90	GGN GDD 75UO
U.S.,MN,MONTEVID(V)54-69F	LP GEL-N	15.351	15.602	35.536	GGN
U.S.,MN,MONTEVID(V)54-69F	KF GEL-N	14.967	15.532	34.864	GGN
U.S.,MN,MONTEVID(V)54-69F	KP GEL-N	14.917	15.503	35.085	GGN
U.S.,MN,MONTEVID(W)431-73	KF GEL-N	62.290	20.340	51.339	GGN GDD 75UO
U.S.,MN,MONTEVID(W)431-73	KF GEL-N	16.937	16.065	34.024	GGN GDD 75UO
U.S.,MN,MONTEVID(W)431-73	KF GEL-NC	16.837	16.054	33.982	GGN GDD 75UO
U.S.,MN,MONTEVID(W)612-74	KF GEL-N	15.145	15.612	34.077	GGN
U.S.,MN,MONTEVID(W)611-74	KF GEL-N	15.301	15.579	34.166	GGN
U.S.,MN,MONTEVID(W)54-69RM	KF GEL-N	14.767	15.453	33.914	GGN
U.S.,MN,MORTON G(V)14	KF PBS-N	14.24	15.08	35.67	GGN GDD 75UO

SOUTH AFRICA
3000MY

S.AF, / (V)KAAP V.	KF DSP-V	12.73	14.09	32.32	GRA S-T 73A
S.AF, / (V)SALIS.k	KF DSP-V	12.75	14.07	32.22	GRA S-T 73A
S.AF, / (V)DALMEIN	KF DSP-V	12.87	14.20	32.39	GRA S-T 73A
S.AF, / (V)LOCHIEL	KF DSP-V	13.03	14.36	32.58	GRA S-T 73A

SOVIET UNION

2700-3000M.Y.

SOV.,BA,KOLA PEN(W)VBALT.	KF PUB	13.73	14.60	33.80	GRA TGB 63RP
SOV.,BA,KOLA PEN(W)VBALT.	KF PUB-C	13.65	14.59	33.58	GRA TGB 63RP
SOV.,UK,KRIVORZ.(W)V2568/1	KF PUB	14.5	14.7	34.4	MIG TGB 63RP
SOV.,UK,KRIVORZ.(W)V2568/1	KF PJB-C	13.9	14.6	34.0	MIG TGB 63RP
SOV.,UK,TAROMSK.(W)K103	KF PUB	15.4	15.12	36.00	GRA SGL 63RA
SOV.,UK,TAROMSK.(W)K103	HO PUB	17.34	15.74	39.73	GRA SGL 63RA

SOV.,UK,TAROMSK.(W)K103	BI PUB	20.01	16.05		GRA SGL 63RA
SOV.,UK,IAMBURG (W)K183A	BI PJB-C	25.43	17.13	177.20	GRA SGL 63RA
SOV.,UK,IAMBURG (W)K176	MU PUB	18.52	15.85	41.46	GRA SGL 63RA
SOV.,UK,LOTSMAN.(W)K185	BI PJB	16.29	15.44	35.80	PEG SGL 63RA

>2950MY-2950MY-2800MY-1600MY-CENOZOIC

UNITED STATES

WYOMING

GRANITE MOUNTAINS

(HISTORY:GNEISS FORMATION AT 2950MY, GRANITE INTRUSION AT 2800MY, DIKE INTRUSION AND METAMORPHISM AT 1600MY, LEACHING FOR URANIUM IN CENOZOIC)

U.S.,WY,GRANITE (W)GM35-68	KF PUB	13.99	15.09	34.04	GN NK-R72UP
U.S.,WY,GRANITE (W)GM38-68	PL PUB	15.21	15.11	33.49	GN NK-R72UP
U.S.,WY,GRANITE (W)GM77-68	KF PJB	15.25	15.74	35.93	GN NK-R72UP
* DRILL HOLE, DEPTH 99FT					
U.S.,WY,GRANITE (W)W2CR1	KF PJB	15.17	16.12	35.61	GGN NK-R72UP
* DRILL HOLE, DEPTH 153FT					
U.S.,WY,GRANITE (W)W2CR1	KF PUB	16.49	16.07	37.21	GGN NK-R72UP
U.S.,WY,GRANITE (W)GM78-68	KF PUB	18.50	16.41	34.45	GN NK-R72UP
U.S.,WY,GRANITE (W)GM98-68	KF PJB	19.97	16.56	36.62	GGN NK-R72UP

2700MY

AUSTRALIA
2700MY

AUST, / (W)WODGINA-	KF DSP-V	13.36	14.92	33.53	GRA S-T 73A
AUST, / (W)LONDON.-	KF DSP-V	14.05	14.82	33.01	GRA S-T 73A
AUST, / (W)GROSSM.-	KF DSP-V	14.08	15.02	33.73	GRA S-T 73A

KALGOORLIE-NORSEMAN AREA

EDJUDINA

AUST,WA,KALGOORL(W)72-859	KR DSP	13.867	14.803	33.566	GRA OVER75A
AUST,WA,KALGOORL(W)72-859	KF DSP-C	13.805	14.792	-	GRA OVER75A

KAMBALDA

AUST,WA,KALGOORL(W)71-1079A	KF DSP	13.832	14.820	33.532	GRA OVER75A
AUST,WA,KALGOORL(W)71-1079B	KF DSP	13.836	14.838	33.594	GRA OVER75A
AUST,WA,KALGOORL(W)71-1079	KF DSP-C	13.723	14.808	-	GRA OVER75A
AUST,WA,KALGOORL(W)71-1083	KF DSP	13.954	14.858	33.657	GRA OVER75A
AUST,WA,KALGOORL(W)71-1081	KF DSP	14.000	14.846	33.625	GRA OVER75A

KARONIE

AUST,WA,KALGOORL(W)71-742	KR DSP	14.320	14.785	33.494	GRA OVER75A
AUST,WA,KALGOORL(W)71-742	KF DSP-C	13.573	14.629	-	GRA OVER75A

KARRAMINDI SOAK

AUST,WA,KALGOORL(W)71-736	KR DSP	15.205	15.054	34.215	GRA OVER75A
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LAKE JOHNSON

AUST,WA,KALGOORL(W)72-864	KR DSP	14.319	15.079	33.939	GRA OVER75A
AUST,WA,KALGOORL(W)72-864	KF DSP-C	14.071	15.035	-	GRA OVER75A
AUST,WA,KALGOORL(W)72-860	KR DSP	14.437	15.121	34.078	GRA OVER75A
AUST,WA,KALGOORL(W)72-860	KF DSP-C	14.262	15.093	-	GRA OVER75A
AUST,WA,KALGOORL(W)72-861	KR DSP	15.321	15.238	34.325	GRA OVER75A

MUNGARI GRANITE

AUST,WA,KALGOORL(W)71-738	KR DSP	14.289	14.971	33.915	GRA OVER75A
AUST,WA,KALGOORL(W)71-738	KF DSP-C	13.894	14.906	-	GRA OVER75A
AUST,WA,KALGOORL(W)71-739A	KR DSP	15.157	15.022	34.196	GRA OVER75A
AUST,WA,KALGOORL(W)71-739B	KR DSP	15.270	15.112	34.416	GRA OVER75A

STENNET ROCKS

AUST,WA,KALGOORL(W)71-906A	KR DSP	14.252	15.199	33.634	GRA OVER75A
AUST,WA,KALGOORL(W)71-906B	KR DSP	14.292	15.226	33.909	GRA OVER75A
AUST,WA,KALGOORL(W)71-906	KF DSP-C	14.030	15.167	-	GRA OVER75A
AUST,WA,KALGOORL(W)71-905	KR DSP	14.436	15.260	34.070	GRA OVER75A
AUST,WA,KALGOORL(W)71-905	KF DSP	14.280	15.232	-	GRA OVER75A

PILBARA BLOCK

ABOUT 280UM.Y. FORMATION WITH ABOUT 210UM.Y. METAMORPHISM

MT. NEWMAN 13 MILE QUARRY

AUST,WA,PILBARA (W)0V1549V	KF DSP-N	40.982	23.043	35.104	GRA OVER76A
AUST,WA,PILBARA (W)0V1549V	PL DSP-N	200.2	43.67	53.14	GRA OVER76A
AUST,WA,PILBARA (W)0V1549	KF DSP-N	68.942	32.103	37.747	GRA OVER76A
AUST,WA,PILBARA (W)0V1549	PL DSP-N	142.1	37.90	46.42	GRA OVER76A
AUST,WA,PILBARA (W)0V1551	KF DSP-N	55.557	27.816	37.481	GRA OVER76A
AUST,WA,PILBARA (W)0V1551	PL DSP-N	79.23	28.06	41.60	GRA OVER76A
AUST,WA,PILBARA (W)0V1548	KF DSP-N	51.072	26.345	36.604	GRA OVER76A
AUST,WA,PILBARA (W)0V1548	KR DSP-N	49.520	16.122	36.258	GRA OVER76A
AUST,WA,PILBARA (W)0V1548	PL DSP-N	116.5	32.73	44.68	GRA OVER76A
AUST,WA,PILBARA (W)0V1553	KF DSP-N	20.645	15.967	33.967	GRA OVER76A
AUST,WA,PILBARA (W)0V1553	KR DSP-N	17.921	15.657	33.748	GRA OVER76A
AUST,WA,PILBARA (W)0V1553	TR DSP-N	60.27	21.81	39.95	GRA OVER76A

MT. NEWMAN 40 MILE QUARRY

AUST,WA,PILBARA (W)0V1544	KF DSP-N	17.157	15.794	33.818	GRA OVER76A
AUST,WA,PILBARA (W)0V1544	KR DSP-N	17.081	15.808	33.735	GRA OVER76A
AUST,WA,PILBARA (W)0V1545	KF DSP-N	18.053	15.956	34.279	GRA OVER76A
AUST,WA,PILBARA (W)0V1545	KR DSP-N	17.513	15.902	34.127	GRA OVER76A
AUST,WA,PILBARA (W)0V1545	PL DSP-N	42.289	19.888	42.207	GRA OVER76A
AUST,WA,PILBARA (W)0V1546	KF DSP-N	18.602	16.123	34.135	GRA OVER76A
AUST,WA,PILBARA (W)0V1546	KR DSP-N	18.137	16.102	34.025	GRA OVER76A
AUST,WA,PILBARA (W)0V1546	PL DSP-N	49.541	21.322	49.170	GRA OVER76A

MT. NEWMAN 70 MILE QUARRY

AUST,WA,PILBARA (W)0V1540	KF DSP-N	14.022	14.846	33.409	GRA OVER76A
AUST,WA,PILBARA (W)0V1540	KR DSP-N	13.815	14.770	33.255	GRA OVER76A
AUST,WA,PILBARA (W)0V1541	KF DSP-N	13.877	14.872	33.697	GRA OVER76A
AUST,WA,PILBARA (W)0V1541	KR DSP-N	13.692	14.814	33.380	GRA OVER76A

AUST,WA,PILBARA (W)OV1541	PL DSP-N	15.000	15.135	34.467	GRA OVER76A
AUST,WA,PILBARA (W)OV1542	KF DSP-N	13.756	14.837	33.629	GRA OVER76A
AUST,WA,PILBARA (W)OV1543	KF DSP-N	14.182	14.902	33.574	GRA OVER76A
AUST,WA,PILBARA (W)OV1543	KR DSP-N	13.888	14.789	33.215	GRA OVER76A
AUST,WA,PILBARA (W)OV1543	PL DSP-N	17.789	15.651	36.325	GRA OVER76A

WOODSTOCK

AUST,WA,PILBARA (W)OV1525V	KF DSP-N	14.747	14.820	33.349	GRA OVER76A
AUST,WA,PILBARA (W)OV1525V	PL DSP-N	17.038	15.695	34.796	GRA OVER76A
AUST,WA,PILBARA (W)OV1526	KF DSP-N	13.815	14.797	33.210	GRA OVER76A
AUST,WA,PILBARA (W)OV1526	KR DSP-N	13.506	14.742	33.138	GRA OVER76A
AUST,WA,PILBARA (W)OV1527	KF DSP-N	15.237	15.007	35.075	GRA OVER76A
AUST,WA,PILBARA (W)OV1527	KR DSP-N	13.784	14.768	33.317	GRA OVER76A

MT. NEWMAN 127 MILE QJARRY

AUST,WA,PILBARA (W)OV1531V	KR DSP-N	13.362	14.602	33.108	GRA OVER76A
AUST,WA,PILBARA (W)OV1536	KR DSP-N	13.274	14.563	33.056	GRA OVER76A

TAMBOURAH

AUST,WA,PILBARA (W)OV1512	KF DSP-N	13.308	14.552	34.003	GRA OVER76A
AUST,WA,PILBARA (W)OV1512	PL DSP-N	14.095	14.718	36.112	GRA OVER76A
AUST,WA,PILBARA (W)OV1513	KF DSP-N	13.481	14.616	34.223	GRA OVER76A
AUST,WA,PILBARA (W)OV1513	KR DSP-N	13.260	14.530	33.345	GRA OVER76A
AUST,WA,PILBARA (W)OV1513	PL DSP-N	14.614	14.917	37.180	GRA OVER76A
AUST,WA,PILBARA (W)OV1511	KF DSP-N	13.466	14.627	34.224	GRA OVER76A
AUST,WA,PILBARA (W)OV1511	PL DSP-N	15.036	14.993	39.286	GRA OVER76A
AUST,WA,PILBARA (W)OV1514	KF DSP-N	13.537	14.636	34.605	GRA OVER76A

COOGLEGONG

AUST,WA,PILBARA (W)OV1519	KF DSP-N	13.527	14.658	33.133	GRA OVER76A
AUST,WA,PILBARA (W)OV1515	KF DSP-N	14.183	14.822	33.197	GRA OVER76A
AUST,WA,PILBARA (W)OV1515	KR DSP-N	13.426	14.655	33.027	GRA OVER76A
AUST,WA,PILBARA (W)OV1515	PL DSP-N	16.772	15.378	33.845	GRA OVER76A
AUST,WA,PILBARA (W)OV1516	KF DSP-N	13.701	14.714	35.673	GRA OVER76A
AUST,WA,PILBARA (W)OV1516	KR DSP-N	13.349	14.641	33.497	GRA OVER76A
AUST,WA,PILBARA (W)OV1516	PL DSP-N	15.415	15.221	39.618	GRA OVER76A
AUST,WA,PILBARA (W)OV1519	PL DSP-N	15.174	15.144	34.682	GRA OVER76A

CANADA

2700MY

CAN., / (W)MG45	KF DSP-V	13.41	14.63	33.26	GRA SIN 69L
CAN., / (W)MG41	KF DSP-V	13.45	14.51	33.43	GRA SIN 69L

PREISSAC-LACORNE BATHO_ITH

CAN.,QB,PREISSAC (W)RN1T2	KF PUB-C	13.28	14.53	33.43	GRA S-w 69A
CAN.,QB,PREISSAC (W)RN2-1	KF PUB-C	13.47	14.48	33.29	GRA S-w 69A
CAN.,QB,PREISSAC (W)RN3	KF PUB-C	13.50	14.70	33.67	GRA S-w 69A

LAKE TIMAGAMI AREA (GRENVILLE FRONT)

(HISTORY: FORMATION AT 2.7 BY WITH METAMORPHISM AT 1.0BY)

CAN.,ON,L.TIMAG (W)G3-1	KF PUB-C	15.35	15.27	34.45	GRA S-w 69A
CAN.,ON,L.TIMAG (W)G5-1	KF PUB-C	17.44	15.89	36.86	GRA S-w 69A

CAN., ON, L. TIMAGA (W) G1-1 KF PUB-C 20.18 16.55 37.03 GRA S-W 69A

INDIA
2700MY

INDI, / (W) BT-16 KF DSP-V 13.16 14.50 35.08 GRA S-T 73A
INDI, / (W) CHARN. KF DSP-V 13.88 14.52 34.08 CHA S-T 73A
INDI, / (W) BT-4 KF DSP-V 13.94 14.86 34.94 GRA S-T 73A
INDI, / (W) BT-20 KF DSP-V 14.09 14.80 33.94 GRA S-T 73A
INDI, / (W) BT-20 KF DSP-V 14.68 14.98 33.86 GRA S-T 73A
INDI, / (W) BT-2 KF DSP-V 15.90 15.16 35.64 SYN S-T 73A

UNITED STATES

MINNESOTA
2700MY

U.S., MN, ICARUS P (W) NL-16F KF PJB 13.29 14.37 32.93 TON A-H 75A
U.S., MN, ICARUS P (W) NL-12F KF PUB 13.37 14.43 33.09 GRA A-H 75A
U.S., MN, ECHO L. (W) KA46 KF PJB 13.63 14.60 33.34 GGN DTH 65J
U.S., MN, BEN IS. (W) KA354 KF PUB-C 13.56 14.67 33.42 GRA DTH 65J
U.S., MN, BIRCH L. (W) KA82 KF PUB-C 13.73 14.59 33.41 GGN DTH 65J
U.S., MN, ECHO L. (W) KA356P KF PUB 13.73 14.66 33.63 PEG DTH 65J
U.S., MN, CUS (W) KA249P KF PJB 13.74 14.66 33.36 PEG DTH 65J
U.S., MN, SACRED H (W) 73MRV-1 LK GEL-N 15.175 15.253 35.407 GRA
U.S., MN, SACRED H (W) 73MRV-1 KF GEL-N 14.307 15.116 34.338 GRA
U.S., MN, SACRED H (W) 73MRV-1 RK GEL-N 14.109 15.073 34.064 GRA
U.S., MN, SAGANAGA (W) SH-23 KF PUB 14.51 14.65 34.26 TON A-H 75A

MONTANA
2700 M.Y.

U.S., MT, BEARTOOT (W) CHRIST. KF PUB 14.11 14.99 33.56 PEG C-G 60A
U.S., MT, BEARTOOT (W) DLACKS. KF PUB 14.31 15.08 33.77 PEG C-G 60A

WYOMING

GRANITE MOUNTAINS
2800MY-1600MY-CENOZOIC

* DRILL HOLE, DEPTH 30FT
U.S., WY, GRANITE (W) D1686-7 KF PUB-C 14.39 15.00 33.92 GRA R-B 69L
* DRILL HOLE, DEPTH 3FT
U.S., WY, GRANITE (W) DDH-GM-2 KF PUB 15.39 15.50 34.77 GRA RZNK73GB
* DRILL HOLE, DEPTH 16FT
U.S., WY, GRANITE (W) DDH-GM-1 KF PUB 16.63 15.70 35.02 GRA RZNK73GB
* DRILL HOLE, 100FT
U.S., WY, GRANITE (W) W2-CR14 KF PUB 18.00 16.13 36.66 GRA RZNK73GB
* DRILL HOLE, DEPTH 165FT
U.S., WY, GRANITE (W) W2-CR26 KF PUB 18.17 16.11 34.94 GRA RZNK73GB
* DRILL HOLE, DEPTH 5FT
U.S., WY, GRANITE (W) DDH-GM-1 KF PUB 18.26 16.16 34.48 GRA RZNK73GB

*	DRILL HOLE, DEPTH 157FT							
U.S.	WY, GRANITE (W) W2-CR14	KF	PUB	10.32	16.22	37.17	GRA	RZnk73Gb
	SURFACE SAMPLE							
U.S.	WY, GRANITE (W) ZW-263	KF	PUB	18.32	16.22	37.17	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 99FT							
U.S.	WY, GRANITE (W) W2-CR26	KF	PUB	20.04	16.64	35.43	GRA	RZnk73Gb

SEMINOLE MOUNTAINS
2800MY-1600MY-CENOZOIC

*	DRILL CORE, DEPTH 20FT							
U.S.	WY, SEMINOLE (W) 114944	KF	PUB	21.07	16.99	35.01	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 30FT							
U.S.	WY, SEMINOLE (W) 114945	KF	PUB	21.49	17.13	35.25	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 20FT							
U.S.	WY, SEMINOLE (W) DDH-SM-1	KF	PUB	21.53	17.18	35.11	GRA	RZnk73Gb
	SURFACE SAMPLE							
U.S.	WY, SEMINOLE (W) 114943	KF	PUB	21.92	17.21	35.37	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 20FT							
U.S.	WY, SEMINOLE (W) DDH-SM-3	KF	PUB	21.96	16.70	33.34	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 20FT							
U.S.	WY, SEMINOLE (W) DDH-SM-2	KF	PUB	22.36	17.35	35.30	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 20FT							
U.S.	WY, SEMINOLE (W) DDH-SM-4	KF	PUB	22.44	17.68	36.25	GRA	RZnk73Gb
*	DRILL CORE, DEPTH 10FT							
U.S.	WY, SEMINOLE (W) 114942	KF	PUB	24.34	17.55	35.42	GRA	RZnk73Gb

WIND RIVER MOUNTAINS
2800MY-1600MY-CENOZOIC

U.S.	WY, WIND RIV (W) WYLL-2W	KF	PUB-C	14.01	14.93	33.68	GRA	NSW 70Gb
U.S.	WY, WIND RIV (W) WYWR-4	KF	PUB-C	14.09	15.01	33.81	GRA	NSW 70Gb
U.S.	WY, WIND RIV (W) WYLL-211	KF	PUB-C	14.12	15.06	33.96	GRA	NSW 70Gb
U.S.	WY, WIND RIV (W) WYLL-13	KF	PUB-C	14.18	15.10	33.95	W-M	NSW 70Gb
U.S.	WY, WIND RIV (W) WYLL-12A	KF	PUB-C	14.25	15.14	34.09	PEG	NSW 70Gb

WYOMING (OTHER AREAS)

U.S.	WY, CODY (W) SHOSHON.	KF	PUB	13.84	15.02	34.00	PEG	C-G 60A
U.S.	WY, (W) BONNEVI.	KF	PUB	14.62	15.27	34.23	PEG	C-G 60A

SOVIET UNION

SOV.	BA, PITKARAN (W) V1376/2	KF	PUB	14.45	15.15	33.60	GGN	TGB 63RP
SOV.	BA, PITKARAN (W) V1376/2	KF	PUB-C	14.43	15.13	33.51	GGN	TGB 63RP
SOV.	BA, KARELIA (W) V1358/9	KF	PUB	16.60	14.80	33.50	PEG	TGB 63RP
SOV.	BA, KARELIA (W) V1358/9	KF	PUB-C	14.67	14.47	31.18	PEG	TGB 63RP

2000M.Y. OR OLDER

SOV.	UK, KIROVOG. (X) V1052/5	KF	PUB	15.15	15.30	35.00	GRA	TGB 63RP
SOV.	UK, KIROVOG. (X) V1052/5	KF	PUB-C	15.61	15.21	34.52	GRA	TGB 63RP
SOV.	UK, INGUL'TS (X) V2544/1	KF	PUB	15.39	15.23	35.03	MIG	TGB 63RP
SOV.	UK, INGUL'TS (X) V2544/1	KF	PUB-C	15.73	15.12	34.69	MIG	TGB 63RP

SOV.,UK,SABAROV (X) V1063/1	KF PUB	16.15	15.30	36.80	CHA TGN 63RP
SOV.,UK,SABAROV (X) V1063/1	KF PUB-C	15.97	15.27	36.05	CHA TGN 63RP

FELDSPARS AND URANIUM/THORIUM POOR MINERALS (PRE-MESOZOIC)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/234	207/204	208/234	TYPE	REFER
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1700 M.Y.

CANADA
1800MY

CAN.,SA,	(X)	4222	KF PUB-C	15.04	15.12	34.90	GRA	DOE 67P
CAN.,SA,	(X)	NB-3	KF DSP-V	15.21	15.02	34.72	GRA	SIN 70A
CAN.,SA,	(X)	CLR-18	KF DSP-V	15.24	15.04	34.79	GRA	SIN 70A
CAN.,SA,	(X)	3633	KF PUB-C	15.73	15.20	35.35	GRA	RPB 70CJ
CAN.,SA,	(X)	4219	KF PUB-C	15.74	15.37	35.57	GRA	DOE 67P

SOVIET UNION
1500-2000M.Y.

SOV.,AL,KUDULIK.(X) V141	<F PUB	14.9	14.9	34.20	PEG TGN 63RP
SOV.,AL,KUDULIK.(X) V141	KF PUB-C	14.77	14.88	33.82	PEG TGN 63RP
SOV.,AL,STANOVVOY(X) V147	<F PUB	14.85	15.05	34.30	PEG TGN 63RP
SOV.,AL,STANOVVOY(X) V147	KF PUB-C	14.79	15.04	33.93	PEG TGN 63RP
SOV.,BA,PITKYAR.(X) V1375/2	KF PUB	14.60	15.10	34.50	PEG TGN 63RP
SOV.,BA,PITKYAR.(X) V1375/2	KF PUB-C	14.50	15.08	34.41	PEG TGN 63RP
SOV.,BA,L.TASH.(X) V1370/	KF PUB	14.77	14.85	34.00	GRA TGN 63RP
SOV.,BA,L.TASH.(X) V1370/	<F PUB-C	14.69	14.84	33.87	GRA TGN 63RP
SOV.,BA,WHITE S.(X) V23	<F PUB	15.00	14.9	34.50	PEG TGN 63RP
SOV.,BA,WHITE S.(X) V23	KF PUB-C	14.94	14.9	34.40	PEG TGN 63RP
SOV.,UK,SHPOLA (X) V1055/1	KF PUB	16.40	15.35	35.50	GRA TGN 63RP
SOV.,UK,SHPOLA (X) V1055/1	KF PUB-C	15.78	15.16	35.23	GRA TGN 63RP
SOV.,UK,KIRVORO.(X) V1385	KF PUB	17.60	15.60	34.90	GRA TGN 63RP
SOV.,UK,KIRVORO.(X) V1385	KF PUB-C	17.32	15.55	34.26	PEG TGN 63RP
SOV.,UK,KIRVORO.(X) V1212/5	KF PUB	18.52	15.78	34.89	PEG TGN 63RP
SOV.,UK,KIRVORO.(X) V1212/5E	<F PUB-C	17.55	15.61	34.85	PEG TGN 63RP
SOV.,UK,KIRVORO.(X) V3208	KF PUB	22.70	16.70	35.90	PEG TGN 63RP
SOV.,UK,KIRVORO.(X) V3208	KF PUB-C	19.53	16.16	35.36	PEG TGN 63RP

UNITED STATES
1800 M.Y.

MINNESOTA

U.S.,MN,SECT.28 (X) 604	<F GEL-N	15.079	15.280	35.214	GRA
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MONTANA
 U.S., MT, (X) 3798 KF PUB-C 16.15 15.65 36.36 OGN DUE 67P

1600M.Y

NORTH AMERICA

UNITED STATES

SOUTH DAKOTA
 1600 M.Y.

U.S., SD, BLK. HILL (X)	GLENDAL	KF PUB	16.18	15.51	35.18	PEG C-G 60A
U.S., SD, BLK. HILL (X)	TIN MT.	KF PUB	16.23	15.50	35.89	PEG C-G 60A
U.S., SD, BLK. HILL (X)	BOB IN.	KF PUB	16.62	15.61	35.87	PEG C-G 60A
U.S., SD, BLK. HILL (X)	BOB IN.	KF PUB	17.04	15.65	35.97	PEG C-G 60A

OTHER AREAS

AUSTRALIA
 1600-1250M.Y.

MT. ALOYSIUS, TOMKINSON RANGES, CENTRAL AUSTRALIA (SILICIC ROCKS)
 (APPARENTLY ROCK FORMATION OR METAMORPHISM AT 1600M.Y FOLLOWED BY
 GRANULITE FACIES METAMORPHISM AT 1250M.Y)

AUS., CA, TOMKINS. (X)	69-1255	KF DSP	16.82	15.57	36.60	GNG G-0 72A
AUS., CA, TOMKINS. (X)	69-1320	KF DSP	16.80	15.57	36.80	GNG G-0 72A
AUS., CA, TOMKINS. (X)	71-271	KF DSP	16.93	15.59	36.60	GNG G-0 72A
AUS., CA, TOMKINS. (X)	1-271	QP DSP-C	16.92	15.62	36.90	GNG G-0 72A
AUS., CA, TOMKINS. (X)	71-272	KF DSP	16.73	15.56	36.64	GNG G-0 72A
AUS., CA, TOMKINS. (X)	GA-2798	KF DSP	16.79	15.61	36.84	GNG G-0 72A
AUS., CA, TOMKINS. (X)	GA2797	KF DSP	16.78	15.59	36.99	GNG G-0 72A
AUS., CA, TOMKINS. (X)	9-1277	KF DSP-C	16.83	15.55	37.14	GNG G-0 72A
AUS., CA, TOMKINS. (X)	1277	QP DSP-C	16.83	15.55	37.35	GNG G-0 72A
AUS., CA, TOMKINS. (X)	71-273	KF DSP	16.72	15.57	36.99	GNG G-0 72A
AUS., CA, TOMKINS. (X)	71-273	QP DSP-C	16.74	15.57	37.18	GNG G-0 72A

1400MY

COLORADO
 1400 M.Y.

U.S., CO, EOLUS (Y)	72LD1	KF GEL-N	16.68	15.41	35.98	GRA LHS76?
U.S., CO, EOLUS (Y)	72LD1	KF GEL-NC	16.64	15.41	35.97	GRA LHS76?
U.S., CO, ST. KEVIN (Y)	C20	KF PUB-C	16.61	15.48	36.36	GRA DUE 67P
U.S., CO, ST. KEVIN (Y)	C3	KF PUB-C	16.61	15.58	36.61	GRA DUE 67P
U.S., CO, (Y)	BROWN D.	KF PUB	16.72	15.30	35.73	PEG ADTW56GU

NEW MEXICO

GRANITE OF BULLARD PARK

U.S.	NM	JONES C.	(Y)	CB122-75	LK	GEL-N	16.283	15.356	35.915	GRA
U.S.	NM	JONES C.	(Y)	CB122-75	RK	GEL-N	16.220	15.353	35.866	GRA

1000 M.Y.

EUROPE

NORWAY

1000 M.Y.

NOR.			(Y)	TORDAL	KF	PUB	17.37	15.55	37.09	PEG C-G 60A
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CANADA

ONTARIO

1000M.Y.-DISTURBED(TIME UNKNOWN)

CAN.	ON		(Y)	ESSONV.	KF	PUB	16.81	15.28	36.02	PEG TPBI55GB
CAN.	ON		(Y)	ESSONV.	PL	PUB	18.16	15.48	40.02	GRA TPBI55GB
CAN.	ON		(Y)	ESSONV.	KF	PJB	18.56	15.74	39.52	GRA TPBI55GB
CAN.	ON		(Y)	ESSONV.	PY	PUB	20.34	15.92	54.34	GRA TPBI55GB

SOVIET UNION

500-1500M.Y.

SOV.	AL	DGHUGDZ.	(Y)	V149	KF	PUB	16.15	15.10	35.00	ANO TGB 63RP
SOV.	AL	DGHUGDZ.	(Y)	V149	KF	PUB-C	15.85	15.05	34.62	ANO TGB 63RP

UNITED STATES

COLORADO

1000 M.Y.

PIKES PEAK BATHOLITH

U.S.	CO	PIKES PK	(Y)	CRYSTAL	KF	PUB	16.84	15.35	36.58	PEG C-G 60A
U.S.	CO	PIKES PK	(Y)	PPB-1K	KF	PJB-C	16.90	15.44	36.75	GRA DGE 67P
U.S.	CO	PIKES PK	(Y)	PPRS-1K	KF	PUB-C	16.91	15.49	36.71	GRA DGE 67P

MARYLAND

1000MY-PALEOZOIC

BALTIMORE GNEISS

(HISTORY:FORMATION OF BALTIMORE GNEISS OCCURRED 1000 TO 1350 MY AGO WITH METAMORPHISM AND INTRUSION IN THE PALEOZOIC)

U.S.	MD	BALTIMOR	(Y)	B58(WD)	KF	PUB	17.42	15.52	40.01	GGN DTH 65J
U.S.	MD	BALTIMOR	(Y)	B4(PD)	KF	PUB	17.85	15.40	38.38	GGN DTH 65J
U.S.	MD	BALTIMOR	(Y)	B20(TD)	KF	PUB	18.10	15.53	37.09	GGN DTH 65J
U.S.	MD	BALTIMOR	(Y)	B41(TD)	KF	PJB	18.85	15.64	38.17	GGN DTH 65J

NEW YORK
1000MY

U.S.	NY	BALMAT	(Y)	CCG	KF	PUB	16.94	15.31	36.43	GRA	DOE	62J
U.S.	NY	BALMAT	(Y)	HPG	KF	PUB	17.10	15.51	36.64	GRA	DOE	62J
U.S.	NY	BALMAT	(Y)	WBG-P	KF	PUB	17.14	15.47	36.55	PEG	DOE	62J
U.S.	NY	BALMAT	(Y)	AZ1	KF	3FI-N	17.167	15.482	36.731	GRA	SDU	69L
U.S.	NY	BALMAT	(Y)	CCG-P	KF	PUB	17.26	15.54	36.74	PEG	DOE	62J
U.S.	NY	BALMAT	(Y)	CDM14-P	KF	PUB	18.99	15.63	37.12	PEG	DOE	62J

VIRGINIA
1000MY.

U.S.	VA	BLUE RID	(Y)	B15P	KF	PUB	17.22	15.42	36.49	PEG	DTH	65J
U.S.	VA	BLUE RID	(Y)	b16	KF	PUB	17.30	15.60	37.10	CHA	DTH	65J
U.S.	VA	BLUE RID	(Y)	b15	KF	PUB	17.34	15.65	37.24	CHA	DTH	65J

SAUDI ARABIA

PRECAMBRIAN-Z
SAUD, M. DHABAB(Z?) 64026 KF GEL-N 17.408 15.471 36.917 PEG

FELDSPARS AND URANIUM/THORIUM POOR MINERALS(PRE-MESOZOIC)

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LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/204	207/204	208/204	TYPE	REF
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PALEOZOIC

CANADA

NEWFOUNDLAND
PALEOZOIC

OPHIOLITES(TRONDHJEMITES)

NIPPERS HARBOR OPHIOLITE (BETTS COVE BELT)												
CAN.	NF	NIPPERS	(CAM)	72-4P	KF	PUB	18.34	15.47	37.92	TRN	MATT	75GG
TROUT RIVER OPHIOLITE (RAY OF ISLANDS-HARE BAY BELT)												
CAN.	NF	TROUT R.	(ORD)	72-9P	KF	PUB	18.52	15.70	38.03	TRN	MATT	76GG

UNITED STATES

MAINE
PALEOZOIC

U.S.	ME		(PAL)	TOPSHAM	KF	PUB	18.51	15.80	38.90	PEG	DTH	65J
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MARYLAND
PALEOZOIC

U.S. MD NOTCH CL(PAL)PE-2-P	KF PUB	18.11	15.66	38.50	PEG DTH 65J
U.S. MD NOTCH CL(PAL)B77-P	KF PUB	18.16	15.70	38.69	PEG DTH 65J
U.S. MD CROMWELL(PAL)B80-P	KF PUB	18.26	15.60	38.02	PEG DTH 65J
U.S. MD DANIELS (PAL)PEM-1-P	KF PUB	18.29	15.63	38.29	PEG DTH 65J
U.S. MD MANOR RD(PAL)B78-P	<F PUB	18.38	15.78	38.65	PEG DTH 65J
U.S. MD GUILFORD(PAL)B32	<F PUB	18.39	15.76	38.44	GRA DTH 65J
U.S. MD ELLICOTT(PAL)B53	KF PUB	18.44	15.50	37.89	GRA DTH 65J
U.S. MD FALLS RD(PAL)B1-P	MU PUB	18.50	15.62	38.17	PEG DTH 65J
U.S. MD GUILFORD(PAL)B33P	KF PUB	18.54	15.62	37.91	PEG DTH 65J
U.S. MD ELLICOTT(PAL)B21	KF PUB	18.60	15.69	38.32	GRA DTH 65J
U.S. MD FALLS RD(PAL)B1-P	<F PUB	18.60	15.75	38.65	PEG DTH 65J
U.S. MD HENRYTON(PAL)PE4-P	KF PUB	18.65	15.80	38.72	PEG DTH 65J

VIRGINIA
PALEOZOIC

U.S. VA AMELIA C(PAL)AMELIA-P	KF PUB	18.18	15.67	38.41	PEG C-G 60A
U.S. VA AMELIA C(PAL)AMELIA-P	<F PUB	18.20	15.70	38.29	PEG DTH 65J

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM THE
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LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

EASTERN PROVINCE (PENNSYLVANIA REGION), PENN. AGE (WESTPHALIAN)

U.S.	PA	ASHLEY (PEN)	USBM-1	WR PUB	18.64	15.68	38.64	COA C-E	72S
U.S.	PA	JEDDO (PEN)	USBM-2	WR PUB	18.82	15.72	38.80	COA C-E	72S
U.S.	PA	TREVORTO (PEN)	USBM-3	WR PUB	18.82	15.68	38.81	COA C-E	72S
U.S.	PA	ST. NICH (PEN)	USBM-4	WR PUB	18.79	15.67	38.76	COA C-E	72S

EASTERN PROVINCE (APPALACHIAN REGION), PENN. AGE (WESTPHALIAN)

U.S.	WV	MINGO (PEN)	C-E 27	WR PUB	18.96	15.64	38.76	COA C-E	72S
U.S.	WV	WYOMING (PEN)	C-E 29	WR PUB	19.04	15.71	38.62	COA C-E	72S
U.S.	WV	WYOMING (PEN)	C-E 33	WR PUB	19.08	15.78	39.01	COA C-E	72S
U.S.	VA	BUCHANAN (PEN)	C-E 36	WR PUB	19.11	15.64	38.58	COA C-E	72S

INTERIOR PROVINCE (EASTERN REGION), PENN. AGE (WESTPHALIAN)

U.S.	IL	FULTON (PEN)	C-E 62	WR PUB	18.64	15.76	38.77	COA C-E	72S
U.S.	KY	HOPKINS (PEN)	C-E 68	WR PUB	19.72	15.75	38.74	COA C-E	72S
U.S.	KY	HOPKINS (PEN)	C-E 70	WR PUB	19.40	16.05	39.47	COA C-E	72S

INTERIOR PROVINCE (WESTERN REGION), PENN. AGE (WESTPHALIAN)

U.S.	OK	CRAIG (PEN)	C-E 81	WR PUB	18.55	15.69	38.69	COA C-E	72S
U.S.	KS	CRAWFORD (PEN)	C-E 83	WR PUB	18.52	15.66	38.48	COA C-E	72S
U.S.	OK	HASKELL (PEN)	C-E 87	WR PUB	19.05	15.69	38.81	COA C-E	72S

NORTHERN GREAT PLAINS PROV. (BIGHORN BASIN REGION), PALEOCENE AGE

U.S.	MT	CARBON (TER)	C-E101	WR PUB	17.64	15.67	37.53	COA C-E	72S
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ROCKY MOUNTAIN PROV. (UINTA REGION), CRETACEOUS AGE (CAMPANIAN)

U.S.	UT	CARBON (TER)	C-E112	WR PUB	18.77	15.69	38.82	COA C-E	72S
U.S.	UT	CARBON (TER)	C-E113	WR PUB	18.80	15.71	38.79	COA C-E	72S

ROCKY MOUNTAIN PROV. (SAN JUAN R. REGION), CRETACEOUS AGE (CAMPANIAN)

U.S.	NM	SAN JUAN (CRE)	C-E121	WR PUB	18.78	15.78	39.07	COA C-E	72S
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, CRETACEOUS AGE (CONIACIAN)

U.S.	NM	MCKINLEY (CRE)	C-E125	WR PUB	19.12	15.65	38.96	COA C-E	72S
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, JURASSIC AGE

CAN.	AL	COLEMAN (JUR)	C-E113	WR PUB	19.13	15.65	38.64	COA C-E	72S
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PACIFIC COAST PROVINCE, EOCENE AGE

U.S., CA, AMADOR (TER) C-E137 WR PUB 19.24 15.89 39.38 COA C-E 72S

FUEL, GASOLINE AND AEROSOLS(FUELG.SRA)

(2 MARCH 1976)

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LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204 TYPE REFER

GASOLINES

CHIL, SANTIAGO (0)	GAS1969	PJB	19.56	15.80	39.18	GAS CSE	75IA
U.S., SC, CHESTER (0)	GAS1968	PUB	19.04	15.72	38.57	GAS CSE	75IA
U.S., CA, S.DIEGO (0)	GAS1974	PUB	18.75	15.77	38.46	GAS CSE	75IA
MALA, PENANG (0)	GAS1968	PJB	18.69	15.68	38.33	GAS CSE	75IA
U.S., CA, S.DIEGO (0)	GAS1969	PJB	18.65	15.77	38.45	GAS CSE	75IA
U.S., CO, DENVER (0)	GAS1969	PJB	18.56	15.80	38.36	GAS CSE	75IA
NIH, HO, TOKYO (0)	GAS1968	PUB	18.50	15.78	38.60	GAS CSE	75IA
U.S., CA, BOSTON (0)	GAS1964	PUB	18.45	15.65	38.29	GAS CSE	75IA
U.S., TX, HOUSTON (0)	GAS1970	PUB	19.43	15.93	39.09	GAS CSE	75IA
FRA., PARIS (0)	GAS1966	PUB	18.25	15.71	38.57	GAS CSE	75IA
U.S., NY, NEW YORK (0)	GAS1967	PUB	18.21	15.63	38.34	GAS CSE	75IA
GER., BA, MUNICH (0)	GAS1966	PJB	18.16	15.64	38.24	GAS CSE	75IA
U.S., WILSHIRE (0)	GAS-D	PUB	18.14	15.63	38.02	GAS C-J	65S
CHIN, TAIWAN (0)	GAS1968	PUB	18.14	15.60	38.01	GAS CSE	75IA
AUS., VIENNA (0)	GAS1966	PUB	18.11	15.67	38.25	GAS CSE	75IA
U.S., WILSHIRE (0)	GAS-REG	PUB	18.10	15.66	38.10	GAS C-J	65S
U.S., DOUGLAS (0)	GAS	PJB	18.05	15.67	38.04	GAS C-J	65S
U.S., CA, S.DIEGO (0)	GAS1975	PUB	17.93	15.58	37.81	GAS CSE	75IA
U.S., CA, S.DIEGO (0)	GAS1964	PUB	17.93	15.65	37.79	GAS CSE	75IA
U.S., STD. OIL (0)	GAS	PUB	17.92	15.69	37.93	GAS C-J	65S
PERU, LIMA (0)	GAS1965	PUB	17.90	15.54	37.57	GAS CSE	75IA
SWIT, BE, BERN (0)	GAS1965	PJB	17.88	15.60	37.95	GAS CSE	75IA
SWIT, BE, BERN (0)	GAS1966	PUB	17.65	15.54	37.54	GAS CSE	75IA
NETH, AMSTERD. (0)	GAS1967	PUB	17.45	15.61	37.18	GAS CSE	75IA
U.S., SHELL O. (0)	GAS-REG	PUB	17.38	15.59	37.38	GAS C-J	65S
U.S., CA, S.FRANC. (0)	GAS1969	PJB	17.34	15.43	37.10	GAS CSE	75IA
CHIN, HO, HONGKONG (0)	GAS1968	PUB	17.00	15.60	36.86	GAS CSE	75IA
THAI, BANGKOK (0)	GAS1968	PJB	16.58	15.47	36.47	GAS CSE	75IA

AEROSOLS AND OTHER ATMOSPHERIC SOURCES

U.S., CA, L.A. (0)	AEROSOLS	PUB	18.04	15.63	38.01	AERC-J	65S
U.S., CA, LASSEN (0)	SNOW	PUB	18.01	15.74	38.40	SNO T-M	63N
U.S., TETRA- (0)	ETHYL P3	PUB	18.69	15.52	38.30	CHE D-M	51N
U.S., CA, S.DIEGO (0)	AE 5/64	PUB	18.15	15.77	38.33	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 12/67	PUB	18.24	15.63	38.10	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 1/68	PUB	18.34	15.74	38.30	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 2/68	PUB	18.09	15.53	37.72	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 3/68	PUB	18.23	15.63	37.82	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 4/68	PUB	18.29	15.67	38.19	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 5/68	PJB	18.33	15.76	38.48	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 6/68	PUB	18.26	15.82	38.45	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 7/68	PJB	18.22	15.67	38.29	AER CSE	75IA
U.S., CA, S.DIEGO (0)	AE 8/68	PUB	18.28	15.68	38.23	AER CSE	75IA

U.S.//CA//S.DIEGO (0)AE 9/68	PUB	18.23	15.62	38.06	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE10/68	PJB	18.45	15.80	38.60	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE11/68	PUB	18.41	15.72	38.35	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE12/68	PUB	18.45	15.76	38.39	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 1/69	PUB	18.68	15.99	39.03	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 2/69	PUB	18.49	15.52	37.80	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 3/69	PUB	18.47	15.64	38.26	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 4/69	PUB	18.70	15.81	38.65	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 5/69	PUB	18.58	15.69	38.40	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 7/69	PJB	18.92	15.97	39.17	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 8/69	PUB	18.55	15.71	38.26	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 4/70	PUB	18.89	15.75	38.46	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 7/70	PUB	18.77	15.89	39.06	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE10/70	PUB	18.70	15.75	38.46	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE12/70	PUB	18.68	15.66	38.37	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 4/71	PUB	18.66	15.62	38.13	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 6/71	PUB	18.59	15.61	38.06	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 8/71	PJB	18.70	15.73	38.41	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE12/71	PUB	18.75	15.73	38.35	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 3/72	PUB	18.78	15.68	38.33	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 6/72	PUB	18.88	15.72	38.34	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 9/72	PJB	18.81	15.71	38.55	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE12/72	PUB	19.07	15.97	39.01	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 3/73	PUB	18.64	15.68	38.23	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 6/73	PUB	18.86	15.80	38.61	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 9/73	PUB	18.91	15.73	38.44	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE12/73	PUB	18.94	15.74	38.72	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 3/74	PJB	19.05	15.81	38.72	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 6/74	PUB	18.91	15.69	38.44	AER CSE 75IA
U.S.//CA//S.DIEGO (0)AE 9/74	PJB	19.02	15.85	38.58	AER CSE 75IA

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IGNEOUS ROCKS, CONTINENTAL: CENOZOIC-MESOZOIC(IGCO.GRA) (25 JUNE 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

ANTARCTICA

ROSS ISLAND

ANT. RI MT. CIS (CEN)NI13867	WR GEL-N	19.429	15.630	39.122	TRA S-H	7500
ANT. RI CROZIER (CEN)NI567	WR GEL-N	19.523	15.613	39.007	BSN S-H	7500
ANT. RI TAYLOR V(CEN)NI267	WR GEL-N	19.592	15.602	39.285	BSN S-H	7500
ANT. RI CROZIER (CEN)NI1167	WR GEL-N	19.666	15.607	39.165	PHO S-H	7500
ANT. RI CROZIER (CEN)NI15367	WR GEL-N	19.670	15.636	39.344	BSN S-H	7500
ANT. RI MT. BIRD (CEN)NI16170	WR GEL-N	19.701	15.607	39.360	BSN S-H	7500
ANT. RI CA. ROYDS(CEN)NI15267	WR GEL-N	19.822	15.648	39.406	PHO S-H	7500
ANT. RI MT. BIRD (CEN)NI16070	WR GEL-N	19.824	15.622	39.448	PHO S-H	7500
ANT. RI CA. EVANS(CEN)NI14467	WR GEL-N	19.882	15.646	39.484	PHO S-H	7500
ANT. RI CA. ROYDS(CEN)NI12765	WR GEL-N	19.902	15.629	39.555	TRB S-H	7500
ANT. RI MT. DISC.(CEN)NI15067	WR GEL-N	19.986	15.642	39.607	PHO S-H	7500
ANT. RI MT. MORN.(CEN)NI15670	WR GEL-N	20.039	15.650	39.563	BSN S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV52	WR GEL-N	20.060	15.649	39.524	BSN S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV43	WR GEL-N	20.061	15.653	39.600	BSN S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV8	WR GEL-N	20.225	15.665	39.819	TRB S-H	7500
ANT. RI OBSERVA.(CEN)NI15965	WR GEL-N	20.240	15.668	39.824	PHO S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV32	WR GEL-N	20.245	15.665	39.772	TRB S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV17	WR GEL-N	20.259	15.666	39.748	TRB S-H	7500
ANT. RI OBSERVA.(CEN)NI-DV5	WR GEL-N	20.280	15.671	39.814	TRB S-H	7500

NORTH AMERICA

ALASKA

U.S. AK NUN. IS. (CEN)BASAN.	WR GEL-N	18.63	15.46	38.11	BAS Z-T	73L
U.S. AK HUME CK (CEN)ATS124A	KF PBS-N	18.94	15.67	38.76	GRA DOE	70M
U.S. AK BROOKS R(CEN)6DASN145	KF PBS-N	19.05	15.67	38.96	GRA DOE	70M

ARIZONA

U.S. AZ S. CARL. (CEN)BASAN.	WR GEL-N	18.59	15.51	37.98	BAS Z-T	73L
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CALIFORNIA

U.S. CA SHASTA (CEN)MS68-6	WR GEL-N	18.83	15.56	38.34	BAS CHUR	76L
U.S. CA SHASTA (CEN)MS68-7	WR GEL-N	18.95	15.66	38.70	DAC C-T	73GB
U.S. CA SHASTA (CEN)MS68-12A	WR GEL-N	18.88	15.60	38.63	AND CHUR	76L
U.S. CA SHASTA (CEN)MS68-12B	WR GEL-N	18.90	15.59	38.52	AND CHUR	76L
U.S. CA MEDICINE(CEN)ML68-6A	WR GEL-N	18.99	15.59	38.63	OBS CHUR	76L
U.S. CA MEDICINE(CEN)ML68-6B	WR GEL-N	19.00	15.59	38.58	OBS CHUR	76L
U.S. CA MEDICINE(CEN)ML68-11B	WR PBS-N	18.93	15.60	38.53	BAS C-T	73GB

U.S. CA LASSEN (CEN)L68-1	WR	GEL-N	18.92	15.61	38.56	BAS	CHUR76L
U.S. CA LASSEN (CEN)L67-11	WR	GEL-N	18.91	15.60	38.63	DAC	C-T 73GB
U.S. CA LASSEN (CEN)L68-10	WR	GEL-N	18.98	15.66	38.81	BAS	C-T 73GB
U.S. CA LASSEN (CEN)L68-14	WR	GEL-N	18.91	15.60	38.56	BAS	CHUR76L
U.S. CA LASSEN (CEN)L68-14B	WR	GEL-N	18.92	15.60	38.58	BAS	CHUR76L
U.S. CA LITTLE G(CEN)67D-8	WR	PBS-N	18.94	15.64	38.75	OBS	DGE 67P
U.S. CA MONO C. (CEN)1B	KF	GEL-N	19.08	15.61	38.75	GRA	D-D 73GB
U.S. CA MONO C. (CEN)MCO	WR	GEL-N	19.10	15.64	38.81	OBS	CHUR76L
U.S. CA MONO C. (CEN)MCO-B	WR	GEL-N	19.12	15.65	38.86	OBS	CHUR76L
U.S. CA SALTON S(CEN)OBSID.B.	WR	PBS-N	18.87	15.57	38.40	OBS	DHW 66E
U.S. CA SALTON S(CEN)RED IS.	WR	PBS-N	18.85	15.56	38.40	OBS	DHW 66E
U.S. CA SALTON S(CEN)MULLET I	WR	PBS-N	18.88	15.59	38.53	OBS	DHW 66E
U.S. CA EUREKA V(CEN)BW2MK1	GL	PUB-N	19.093	15.642	38.80	Q-L	NKCB76GB
U.S. CA EUREKA V(CEN)BW2MK1	GL	PUB-NC	19.02	15.64	38.76	Q-L	NKCB76GB
U.S. CA EUREKA V(CEN)BW2FL1	GL	PUB-N	19.118	15.641	38.78	Q-L	NKCB76GB
U.S. CA EUREKA V(CEN)EW2FL1	GL	PUB-NC	19.05	15.64	38.74	Q-L	NKCB76GB
U.S. CA TICK CAN(CEN)LTS-1A	WR	PBS-N	19.12	15.65	39.07	RHY	DOE 68MI
U.S. CA CLEAR L.(CEN)67D-5	GL	GEL-N	19.17	15.65	38.92	OBS	D-D 73GB

FRANCISCAN COMPLEX

U.S. CA FRANCISC(CEN)SB-S98Z	WR	PUB	18.01	15.40	37.35	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)UD-SC-6	WR	PUB	18.50	15.40	37.89	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)UD-SBE-4	WR	PUB	18.52	15.49	37.96	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)NI-SBE10	WR	PUB	18.55	15.40	37.65	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)MD-CC245	WR	PUB	18.71	15.48	37.96	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)PS-SB-6V	WR	PUB	18.90	15.50	38.20	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)NA-SC-5V	WR	PUB	18.92	15.51	38.69	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)SS-S-2V	WR	PUB	19.02	15.49	38.17	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)PS-513-5	WR	PUB	19.02	15.55	38.16	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)LL-M-1V	WR	PUB	19.26	15.50	38.91	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)RP-M-IV	WR	PUB	19.32	15.38	37.49	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)L-M-IV	WR	PUB	19.37	15.51	38.76	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)SS-S-7V	WR	PUB	19.43	15.55	38.90	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)AC-SB-2J	WR	PUB	19.46	15.58	39.31	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)BR-SB-24	WR	PUB	19.56	15.57	38.79	BAS	S-D 71Y
U.S. CA FRANCISC(CEN)CI-LA-IV	WR	PUB	23.28	15.77	38.39	BAS	S-D 71Y

SOUTHERN CALIFORNIA BATHOLITH

U.S. CA SCB (MES)RUBIDOUA	WR	PUB	18.95	15.62	38.52	GRA	B-S 64
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SIERRA NEVADA BATHOLITH

U.S. CA SHASTA (JUR)T-1645	WR	GEL-N	18.817	15.514	38.438	TRN	D-D 73GB
U.S. CA SHASTA (JUR)T-1645	WR	GEL-NC	18.571	15.502	38.084	TRN	D-D 73GB
U.S. CA SNB (JUR)ST1-11	WR	GEL-N	18.799	15.615	38.534	TRN	D-D 73GB
U.S. CA SNB (JUR)ST1-11	WR	GEL-NC	18.730	15.612	38.444	TRN	D-D 73GB
U.S. CA SNB (MES)S-SR-12	KF	GEL-N	18.771	15.624	38.546	GRA	D-D 73GB
U.S. CA SNB (MES)S-SR-10	KF	GEL-N	18.788	15.611	38.522	GRA	D-D 73GB
U.S. CA SNB (MES)S-SR-T1	KF	GEL-N	18.803	15.634	38.690	GRA	D-D 73GB
U.S. CA SNB (MES)GC19-72	KF	GEL-N	18.975	15.653	38.790	GRA	
U.S. CA SNB (MES)GC33-72	KF	GEL-N	18.983	15.651	38.796	GRA	
U.S. CA SNB (MES)GC95-72	KF	GEL-N	18.993	15.657	38.819	GRA	
U.S. CA SNB (MES)S-SR-3	KF	GEL-N	19.146	15.694	38.842	GRA	D-D 73GB
U.S. CA SNB (MES)S-SR-8	KF	GEL-N	19.160	15.716	38.958	GRA	D-D 73GB
U.S. CA SNB (MES)S-SR-5	KF	GEL-N	19.366	15.735	39.101	GRA	D-D 73GB

SALINIAN BLOCK

U.S. CA	SALINIAN(PHA)BC-1-4C	KF GEL-N	19.11	15.69	39.01	GRA D-D	73GB
U.S. CA	SALINIAN(PHA)JS-1	KF GEL-N	19.53	15.75	39.29	GRA D-D	73GB

ROCKS, MESOZOIC AND CENOZOIC
IGNEOUS, CONTINENTAL

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

NORTH AMERICA

COLORADO

EXCLUSIVE OF THE SAN JUAN MOUNTAINS
FRONT RANGE

U.S. CO	F. RANGE(CEN)ELDORA	KF P3S-N	17.94	15.54	38.48	GRA DOE	63J
U.S. CO	F. RANGE(CEN)ELDORA	KF P3S-N	17.70	15.43	38.57	GRA DOE	63J
U.S. CO	F. RANGE(CEN)ALBION	KF P3S-N	18.09	15.53	39.26	GRA DOE	63J
U.S. CO	F. RANGE(CEN)HAHNS	KF P3S-N	17.25	15.38	36.56	GRA ADD	72E
U.S. CO	F. RANGE(CEN)HAHNS-D3	WR P3S-N	17.31	15.42	36.61	GRA ADD	72E
U.S. CO	F. RANGE(CEN)54P152	WR P3S-N	17.89	15.58	38.47	BAS	DLHK69C0

SAN JUAN VOLCANIC AREA

WESTERN SAN JUAN MOUNTAINS(EARLY INTERMEDIATE VOLCANICS)

CIMERRON RIDGE RHYODACITE

U.S. CO	S. JUAN (CEN)RD336-68	WR GEL-N	17.74	15.50	37.33	INT	LDHS76?
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WESTERN SAN JUAN MOUNTAINS (JNCOMPAGHRE-SAN JUAN CALDERA COMPLEX)

SAPINERO MESA TUFF

U.S. CO	S. JUAN (CEN)68L42A	PL GEL-N	18.79	15.61	38.45	INT	LDHS76?
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BURNS FORMATION

U.S. CO	S. JUAN (CEN)73L52B	PL GEL-N	18.784	15.604	38.463	INT	LDHS76?
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HENSON FORMATION

U.S. CO	S. JUAN (CEN)73L44	PL GEL-N	18.641	15.586	38.435	INT	LDHS76?
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QUARTZ MONZONITE OF THE SULTON MOUNTAIN STOCK

U.S. CO	S. JUAN (CEN)46DV36	KF P3S-N	18.69	15.51	37.96	GRA	LDHS76?
U.S. CO	S. JUAN (CEN)46DV36	KF GEL-N	18.76	15.6L	38.28	GRA	LDHS76?

INTRUSIVE OF THE NATIONAL BELLE MINE
U.S. CO. S. JUAN (CEN)NB-BI KF GEL-N 18.711 15.614 38.380 INT LDHS76?

CRYSTAL LAKE TUFF
U.S. CO. S. JUAN (CEN)72L43A GL GEL-N 18.870 15.641 38.459 RHY LDHS76?
U.S. CO. S. JUAN (CEN)72L43A GL GEL-NC 18.81 15.61 38.40 RHY LDHS76?

INTRUSIVE OF ENGINEERS PASS
U.S. CO. S. JUAN (CEN)73L101 KF GEL-N 18.128 15.534 37.743 INT LDHS76?

SUNSHINE PEAK TUFF (INTRACALDERA AND OUTFLOW)
U.S. CO. S. JUAN (CEN)DS442 KF GEL-N 18.62 15.59 38.21 RHY LDHS76?
U.S. CO. S. JUAN (CEN)DS29A KF GEL-N 18.60 15.60 38.25 RHY LDHS76?
U.S. CO. S. JUAN (CEN)DS29A KF PBS-N 18.57 15.56 38.11 RHY LDHS76?

INTRUSIVE OF EAST NELLIE CREEK
U.S. CO. S. JUAN (CEN)72L47 KF GEL-N 18.254 15.552 37.523 GRA LDHS67?

CENTRAL SAN JUAN MOUNTAINS (LA GARITA CALDERA COMPLEX)

FISH CANYON TUFF (INTRACALDERA AND OUTFLOW)
U.S. CO. S. JUAN (CEN)S292B KF PBS-N 18.42 15.54 37.60 RHY LDHS76?
U.S. CO. S. JUAN (CEN)DS26 KF PBS-N 18.33 15.50 37.46 RHY LDHS76?

CARPENTER RIDGE TUFF (WILLOW CREEK UNIT)
U.S. CO. S. JUAN (CEN)PB178-59 GEL-N 18.708 15.602 38.014 RHY DOE 67P

MAMMOTH MOUNTAIN TUFF (FIRST FORK SECTION)
U.S. CO. S. JUAN (CEN)67L137A WR PBS-N 18.54 15.48 37.61 RHY LDHS76?
U.S. CO. S. JUAN (CEN)67L137M WR PBS-N 18.59 15.54 37.75 INT LDHS76?

FISHER QUARTZ LATITE (BASAL VITROPHYRE AND LAVA OF WAGON WHEEL GAP)
U.S. CO. S. JUAN (CEN)DS10 GL GEL-N 18.554 15.596 37.889 INT LDHS76?
U.S. CO. S. JUAN (CEN)DS10 GL GEL-NC 18.50 15.59 37.84 INT LDHS76?
U.S. CO. S. JUAN (CEN)DS10 PL PBS-N 18.43 15.52 37.65 INT LDHS76?
U.S. CO. S. JUAN (CEN)PB168B59 WR PBS-N 18.29 15.49 37.40 INT DOE 67P

EASTERN SAN JUAN MOUNTAINS (EARLY INTERMEDIATE VOLCANICS)

SUMMER COON VOLCANIC CENTER
U.S. CO. S. JUAN (CEN)65L267 WR GEL-N 17.342 15.453 36.900 INT LDHS67?
U.S. CO. S. JUAN (CEN)67L106 WR GEL-N 17.34 15.42 36.94 BAS LDHS67?
U.S. CO. S. JUAN (CEN)65L206A WR PBS-N 17.47 15.43 36.86 RHY DLH 69A

BAUGHMAN CREEK VOLCANIC CENTER
U.S. CO. S. JUAN (CEN)DS66 KF PBS-N 17.33 15.38 36.72 GRA LDHS67?

SOUTHERN SAN JUAN MOUNTAINS (EARLY INTERMEDIATE VOLCANICS)

NAVAHO PEAK RHYODACITE							
U.S.	CO	S. JUAN (CEN)68L91	PL GEL-N	17.35	15.46	36.87	INT LDHS76?
CONEJOS PEAK RHYODACITE, SOUTHERN SAN JUAN MOUNTAINS							
U.S.	CO	S. JUAN (CEN)65-L-136	WR GEL-N	17.831	15.484	37.372	AND LDHS67?
U.S.	CO	S. JUAN (CEN)65L138	WR GEL-NC	17.78	15.48	37.32	AND LDHS67?
U.S.	CO	S. JUAN (CEN)67L129	PL GEL-N	18.15	15.53	37.57	INT LDHS76?
SOUTHERN SAN JUAN MOUNTAINS (PLATORO CALDERA COMPLEX)							
TREASURE MOUNTAIN TUFF							
U.S.	CO	S. JUAN (CEN)65L132	WR GEL-N	18.42	15.55	37.66	INT LDHS76?
SUMMITVILLE ANDESITE (LOWER MEMBER)							
U.S.	CO	S. JUAN (CEN)67L125	WR PBS-N	18.52	15.57	37.75	AND DLH 69AN
U.S.	CO	S. JUAN (CEN)67L126	WR PBS-N	18.11	15.54	37.59	AND DLH 69AN
RHYODACITE OF PARK CREEK							
U.S.	CO	S. JUAN (CEN)64D1	WR PBS-N	18.11	15.48	37.47	INT LDHS76?
QUARTZ LATITE OF SOUTH MOUNTAIN							
U.S.	CO	S. JUAN (CEN)64D2P	KF PBS-N	18.00	15.52	37.22	INT LDHS76?
U.S.	CO	S. JUAN (CEN)64D2	PL GEL-N	17.95	15.52	37.28	INT LDHS76?
U.S.	CO	S. JUAN (CEN)64D2W	KF PBS-N	17.97	15.51	37.28	INT LDHS76?
PHYOLITE OF CROPSY MOUNTAIN							
U.S.	CO	S. JUAN (CEN)64D3	WR PBS-N	17.68	15.41	36.80	RHY LDHS76?
U.S.	CO	S. JUAN (CEN)64D3	WR PBS-N	17.69	15.44	36.90	RHY LDHS76?
SAN JUAN MOUNTAINS, HINSDALE FORMATION (ALL AREAS)							
BASALT OF JAROSA MESA							
U.S.	CO	S. JUAN (CEN)DS29B	WR PBS-N	18.31	15.53	37.97	BAS DUE 67P
BEAVER CREEK LOCALITY							
U.S.	CO	S. JUAN (CEN)65-L-32	WR GEL-N	18.841	15.576	38.030	BAS LDHS76?
U.S.	CO	S. JUAN (CEN)65L32	WR GEL-NC	18.81	15.57	37.98	BAS LDHS76?
U.S.	CO	S. JUAN (CEN)65L161A	WR PBS-N	18.099	15.546	37.463	RHY LDHS76?
HANKERCHIEF MESA LOCALITY							
U.S.	CO	S. JUAN (CEN)70L150A	WR GEL-N	18.23	15.55	37.65	BAS LDHS76?
U.S.	CO	S. JUAN (CEN)70L151	WR GEL-N	18.09	15.54	37.48	RHY LDHS76?
LA JARA RESERVOIR LOCALITY							
U.S.	CO	S. JUAN (CEN)66L26	WR PBS-N	17.89	15.47	37.36	BAS DLHK69CO
U.S.	CO	S. JUAN (CEN)65L120	WR GEL-N	18.316	15.532	37.677	BAS LDHS76?
U.S.	CO	S. JUAN (CEN)66L20	WR PBS-N	17.83	15.43	37.01	BAS DLHK69CO
U.S.	CO	S. JUAN (CEN)66L109L	WR PBS-N	17.92	15.51	37.35	BAS DLHK69CO
U.S.	CO	S. JUAN (CEN)66L109M	WR PBS-N	18.20	15.49	37.63	BAS DLHK69CO

ROCKS, MESOZOIC AND CENOZOIC
IGNEOUS, CONTINENTAL

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

NORTH AMERICA

IDAHO

CRATERS OF THE MOON(CJM)

U.S. ID COM	(QUA)69L22	WR DSP-N	18.312	15.666	38.906	BAS	
U.S. ID COM	(QUA)70L42	WR DSP-N	18.299	15.654	38.877	BAS	
U.S. ID COM	(QUA)69L35	WR DSP-N	18.256	15.648	38.789	BAS	
U.S. ID COM	(QUA)SBR-4	WR GEL-N	18.23	15.59	38.93	BAS	
U.S. ID COM	(QUA)WPL87	WR DSP-N	18.178	15.602	38.719	BAS	
U.S. ID COM	(QUA)69L28	WR GEL-N	18.120	15.595	38.795	BAS	
U.S. ID COM	(QUA)INDIAN T	WR FBS-N	17.97	15.69	38.84	BAS	DUE 68MI
U.S. ID COM	(QUA)69L17	WR GEL-N	18.009	15.653	38.771	BAS	
U.S. ID COM	(QUA)69L19	WR GEL-N	17.815	15.574	38.525	LAT	
U.S. ID COM	(QUA)SBR-5	WR DSP-N	17.953	15.663	38.707	BAS	
U.S. ID COM	(QUA)69L36	WR DSP-N	17.860	15.685	38.677	BAS	
U.S. ID COM	(QUA)V31	WR DSP-N	17.814	15.601	38.516	BAS	
U.S. ID COM	(QUA)HIGHWAY	WR PFS-N	17.81	15.65	38.66	AND	DUE 68MI
U.S. ID COM	(QUA)V27	WR DSP-N	17.808	15.618	38.511	BAS	
U.S. ID COM	(QUA)69L20	WR DSP-N	17.806	15.596	38.434	BAS	

KING HILL

U.S. ID KING	HIL(QUA)69L63	WR DSP-N	18.482	15.737	39.355	BAS	
U.S. ID KING	HIL(QUA)69L62	WR DSP-N	18.419	15.683	39.059	BAS	
U.S. ID KING	HIL(QUA)69L60	WR DSP-N	18.284	15.760	39.280	BAS	
U.S. ID KING	HIL(QUA)69L61	WR DSP-N	18.184	15.663	39.007	BAS	
U.S. ID KING	HIL(QUA)70L9	WR DSP-N	18.170	15.660	39.002	BAS	

SNAKE RIVER PLAIN(SRP)

U.S. ID SRP	(CEN)73L185	KF GEL-N	20.428	16.087	40.198	RHY	
U.S. ID SRP	(CEN)A98-3	KF GEL-N	19.154	15.701	39.036	RHY	
U.S. ID SRP	(CEN)74L77	WR GEL-N	19.100	15.658	38.930	RHY	
U.S. ID SRP	(CEN)74L83	GL GEL-N	18.942	15.800	40.023	RHY	
U.S. ID SRP	(CEN)PER-F	PL GEL-N	18.880	15.764	39.839	RHY	
U.S. ID SRP	(CEN)JMP-1	KF GEL-N	18.874	15.630	38.831	RHY	
U.S. ID SRP	(CEN)SF-2	KF GEL-N	18.863	15.778	39.874	RHY	
U.S. ID SRP	(CEN)70L-3	WR DSP-N	18.837	15.732	39.734	BAS	
U.S. ID SRP	(CEN)PER-I	PL GEL-N	18.833	15.722	39.698	RHY	
U.S. ID SRP	(CEN)I-4120	WR DSP-N	18.827	15.728	39.697	BAS	
U.S. ID SRP	(CEN)BEN-1	PL GEL-N	18.795	15.722	39.735	RHY	
U.S. ID SRP	(CEN)70L-1	WR GEL-N	18.768	15.739	39.570	BAS	
U.S. ID SRP	(CEN)74L60	WR GEL-N	18.749	15.734	39.635	RHY	
U.S. ID SRP	(CEN)69L-10	WR DSP-N	18.677	15.749	39.361	BAS	
U.S. ID SRP	(CEN)CAS-1	KF GEL-N	18.677	15.698	39.631	RHY	
U.S. ID SRP	(CEN)62L47	WR DSP-N	18.624	15.710	39.146	BAS	
U.S. ID SRP	(CEN)WK471	WR GEL-N	18.608	15.722	39.465	RHY	

U.S. ID SRP	(CEN)70L-16	WR DSP-N	18.588	15.710	39.295	BAS	
U.S. ID SRP	(CEN)BROWN	KF GEL-N	18.583	15.667	39.520	RHY	
U.S. ID SRP	(CEN)70L-18	WR DSP-N	18.544	15.724	39.062	BAS	
U.S. ID SRP	(CEN)W206	KF GEL-N	18.570	15.682	39.261	RHY	
U.S. ID SRP	(CEN)74L55	KF GEL-N	18.531	15.671	39.312	RHY	
U.S. ID SRP	(CEN)74L54	WR GEL-N	18.529	15.666	39.321	RHY	
U.S. ID SRP	(CEN)69L45	WR GEL-N	18.515	15.679	39.220	RHY	
U.S. ID SRP	(CEN)CAS-6	PL GEL-N	18.511	15.664	39.216	RHY	
U.S. ID SRP	(CEN)RYN-1	KF GEL-N	18.464	15.584	39.232	RHY	
U.S. ID SRP	(CEN)SHOSHONE	WR P3S-N	18.35	15.62	38.88	BAS	DOE 68MI
U.S. ID SRP	(CEN)B263G	WR GEL-N	18.347	15.721	38.649	RHY	
U.S. ID SRP	(CEN)69L-49	WR DSP-N	18.324	15.609	38.765	BAS	
U.S. ID SRP	(CEN)148B-G	WR P3S-N	18.32	15.71	38.63	RHY	DOE 67P
U.S. ID SRP	(CEN)69L-G	WR DSP-N	18.313	15.661	38.592	BAS	
U.S. ID SRP	(CEN)B177	KF GEL-N	18.313	15.636	38.530	RHY	
U.S. ID SRP	(CEN)POI-3	KF GEL-N	18.294	15.706	39.501	RHY	
U.S. ID SRP	(CEN)POI-1	KF GEL-N	18.289	15.698	39.448	RHY	
U.S. ID SRP	(CEN)B263D	KF GEL-N	18.278	15.677	38.459	RHY	
U.S. ID SRP	(CEN)WALCOTT	GL GEL-N	18.259	15.641	38.427	RHY	
U.S. ID SRP	(CEN)69L19	WR GEL-N	18.248	15.647	38.463	RHY	
U.S. ID SRP	(CEN)BC	GL DSP-N	18.243	15.653	38.552	BAS	
U.S. ID SRP	(CEN)69L56	WR GEL-N	18.243	15.639	38.851	RHY	
U.S. ID SRP	(CEN)74L23	GL GEL-N	18.233	15.637	38.547	RHY	
U.S. ID SRP	(CEN)74L26	WR GEL-N	18.213	15.657	38.541	BAS	
U.S. ID SRP	(CEN)70L36	WR GEL-N	18.216	15.627	38.443	RHY	
U.S. ID SRP	(CEN)B258B	KF GEL-N	18.211	15.641	38.371	RHY	
U.S. ID SRP	(CEN)SBR-6	WR DSP-N	18.198	15.636	38.776	BAS	
U.S. ID SRP	(CEN)69L-14	WR DSP-N	18.155	15.637	38.580	BAS	
U.S. ID SRP	(CEN)74L144	GL GEL-N	18.016	15.608	38.340	RHY	
U.S. ID SRP	(CEN)SBR-2	WR DSP-N	18.007	15.632	38.425	BAS	
U.S. ID SRP	(CEN)69L9	WR GEL-N	17.876	15.601	38.289	RHY	
U.S. ID SRP	(CEN)SBR-3	WR DSP-N	17.837	15.554	38.176	BAS	
U.S. ID SRP	(CEN)74L80	WR GEL-N	17.803	15.560	39.208	RHY	
U.S. ID SRP	(CEN)73L106	PL GEL-N	17.754	15.551	38.241	BAS	
U.S. ID SRP	(CEN)74L-11	WR GEL-N	17.204	15.497	38.256	RHY	
U.S. ID SRP	(CEN)WC111-5B	WR GEL-N	17.125	15.476	38.472	BAS	
U.S. ID SE.IDAHO	(CEN)74C8	WR GEL-N	18.237	15.664	39.757	BAS	
U.S. ID SE.IDAHO	(CEN)SM1E	WR GEL-N	19.019	15.747	39.064	BAS	
U.S. ID WOOD RIV	(CEN)A230	WR GEL-N	19.572	15.762	39.309	GRA	

MONTANA

BOULDER BATHOLITH

ELKHORN MOUNTAINS VOLCANICS

U.S. MT BOULDER	(MES)52R16P	GL P3S-N	18.125	15.540	38.107	OBS	DTHK68F
U.S. MT BOULDER	(MES)52R16P	GL P3S-N	18.116	15.570	38.246	OBS	DTHK68E
U.S. MT BOULDER	(MES)52R16P	GL P3S-NC	17.962	15.560	38.057	OBS	DTHK68E
U.S. MT BOULDER	(MES)WC60-32	GL P3S-N	18.142	15.600	38.366	GLA	DTHK68E

EARLY MAFIC ROCKS

U.S. MT BOULDER (MES) S1419	KF	PBS	18.309	15.620	38.057	GAB	DTHK68E
U.S. MT BOULDER (MES) 63K350C	KF	PBS-N	17.922	15.570	38.216	GRA	DTHK68E
U.S. MT BOULDER (MES) 63K350R	KF	PBS-N	17.761	15.550	38.216	MON	DTHK68E

UNIONVILLE GRANODIORITE

U.S. MT BOULDER (MES) 4T349	KF	PBS-N	17.969	15.550	38.117	GRA	DTHK68E
U.S. MT BOULDER (MES) 56KH3	KF	PBS-N	17.984	15.590	38.097	GRA	DTHK68E
U.S. MT BOULDER (MES) 63T500	KF	PBS-N	17.906	15.480	37.778	GRA	DTHK68E
U.S. MT BOULDER (MES) 63T500	KF	PBS-N	17.981	15.580	38.117	GRA	DTHK68E
U.S. MT BOULDER (MES) 4T225A	KF	PBS-N	17.852	15.590	38.236	APL	DTHK68E

RADER CREEK

U.S. MT BOULDER (MES) 2T178P	KF	PBS-N	16.816	15.411	37.599	PEG	DTHK68E
U.S. MT BOULDER (MES) 2T1093	KF	PBS-N	16.900	15.331	37.300	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T1093	KF	PBS-N	16.983	15.440	37.659	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T1065	KF	PBS-N	16.870	15.391	37.798	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T1065	KF	PBS-N	16.880	15.381	37.808	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T1065	KF	PBS-N	16.833	15.361	37.559	GRA	DTHK68E
U.S. MT BOULDER (MES) 1K647	KF	PBS-N	16.907	15.351	37.380	GRA	DTHK68E
U.S. MT BOULDER (MES) 1K647	KF	PBS-N	16.934	15.430	37.579	GRA	DTHK68E
U.S. MT BOULDER (MES) 1K647	KF	PBS-N	16.926	15.411	37.539	GRA	DTHK68E

BURTON PARK

U.S. MT BOULDER (MES) 5T60	KF	PBS-N	17.985	15.530	38.107	GRA	DTHK68E
U.S. MT BOULDER (MES) 4T282	KF	PBS-N	18.018	15.620	38.316	GRA	DTHK68E
U.S. MT BOULDER (MES) 4T282	KF	PBS-N	17.970	15.560	38.177	GRA	DTHK68E

BUTTE QUARTZ MONZONITE AND RELATED SILICIC ROCKS

U.S. MT BOULDER (MES) 6K445	KF	PBS-N	18.128	15.630	38.406	ALS	DTHK68E
U.S. MT BOULDER (MES) 6K445	PL	PBS-N	18.061	15.530	38.177	ALS	DTHK68E
U.S. MT BOULDER (MES) 62KU0	KF	PBS-N	18.105	15.530	38.167	ALS	DTHK68E
U.S. MT BOULDER (MES) 3T273C	KF	PBS-N	17.935	15.550	38.087	PEG	DTHK68E
U.S. MT BOULDER (MES) 1K337P	KF	PBS-N	17.979	15.510	38.057	PEG	DTHK68E
U.S. MT BOULDER (MES) 5T214A	KF	PBS-N	18.074	15.580	38.246	APL	DTHK68E
U.S. MT BOULDER (MES) 1K241	KF	PBS-N	17.871	15.530	37.948	GRA	DTHK68E
U.S. MT BOULDER (MES) 3T273	KF	PBS-N	17.949	15.550	38.067	GRA	DTHK68E
U.S. MT BOULDER (MES) 3T273	WR	PBS-N	17.972	15.570	38.057	GRA	DTHK68E
U.S. MT BOULDER (MES) 5T215	KF	PBS-N	18.053	15.600	38.286	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.851	15.530	37.967	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.868	15.530	37.967	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.851	15.520	37.958	GRA	DTHK68E
U.S. MT BOULDER (MES) 1K337R	KF	PBS-N	18.063	15.600	38.346	GRA	DTHK68E
U.S. MT BOULDER (MES) 5T214A	KF	PBS-N	18.074	15.580	38.246	APL	DTHK68E
U.S. MT BOULDER (MES) 1K241	KF	PBS-N	17.871	15.530	37.948	GRA	DTHK68E
U.S. MT BOULDER (MES) 3T273	KF	PBS-N	17.949	15.550	38.067	GRA	DTHK68E
U.S. MT BOULDER (MES) 3T273	WR	PBS-N	17.972	15.570	38.057	GRA	DTHK68E
U.S. MT BOULDER (MES) 5T215	KF	PBS-N	18.053	15.600	38.286	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.861	15.530	37.967	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.868	15.530	37.967	GRA	DTHK68E
U.S. MT BOULDER (MES) 6K306	KF	PBS-N	17.851	15.520	37.958	GRA	DTHK68E
U.S. MT BOULDER (MES) 1K337R	KF	PBS-N	18.063	15.600	38.346	GRA	DTHK68E
U.S. MT BOULDER (MES) 5T214R	KF	PBS-N	17.978	15.490	37.977	GRA	DTHK68E
U.S. MT BOULDER (MES) 53C150	KF	PBS-N	17.829	15.550	37.948	GRA	DTHK68E

DONALD

U.S. MT BOULDER (MES) 2T1056	KF	PBS-N	17.399	15.570	38.296	PEG	DTHK68E
U.S. MT BOULDER (MES) 2T1050	KF	PBS-N	17.388	15.570	38.316	PEG	DTHK68E
U.S. MT BOULDER (MES) W21	KF	PBS-N	17.299	15.570	38.306	GRA	DTHK68E
U.S. MT BOULDER (MES) W21	KF	PBS-N	17.316	15.570	38.326	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T275A	KF	PBS-N	16.933	15.361	37.619	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T275A	KF	PBS-N	16.992	15.440	37.956	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T275B	KF	PBS-N	16.971	15.440	37.958	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T275M	KF	PBS-N	17.153	15.460	37.967	MEG	DTHK68E
U.S. MT BOULDER (MES) 2T275M	KF	PBS-N	17.155	15.460	37.958	MEG	DTHK68E
U.S. MT BOULDER (MES) 2F275B	PL	PBS-N	17.085	15.550	38.326	GRA	DTHK68E

HELL CANYON

U.S. MT BOULDER (MES) 1K633	KF	PBS-N	17.646	15.480	38.376	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T797	KF	PBS-N	17.711	15.540	38.376	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T297	KF	PBS-N	17.715	15.530	38.555	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T641	KF	PBS-N	17.502	15.490	38.465	GRA	DTHK68E
U.S. MT BOULDER (MES) 2T641	KF	PBS-N	17.509	15.540	38.426	GRA	DTHK68E

POST-LOWLAND CREEK VOLCANICS

U.S. MT BOULDER (MES) 4T505	GL	PBS-N	18.615	15.650	38.505	RHY	DTHK68E
U.S. MT BOULDER (MES) 4T505	KF	PBS-N	18.527	15.629	38.373	RHY	DTHK68E

LOWLAND CREEK VOLCANICS

U.S. MT BOULDER (MES) 5S360	GL	PBS-N	18.325	15.590	38.445	GLA	DTHK68E
U.S. MT BOULDER (MES) 5S351	GL	PBS-N	18.164	15.620	38.285	GLA	DTHK68E
U.S. MT BOULDER (MES) 7S111	GL	PBS-N	17.974	15.520	38.406	GLA	DTHK68E
U.S. MT BOULDER (MES) 7S111	PL	PBS-N	18.108	15.590	38.476	GLA	DTHK68E

GARNET RANGE

U.S. MT GARNET (M-C) 64P-94	WR	PBS-N	17.82	15.54	38.02	BAS	DOE 70M
U.S. MT GARNET (M-C) 4P-9	WR	PBS-N	17.23	15.36	37.07	BAS	DOE 70M

ROCKS, MESOZOIC AND CENOZOIC
IGNEOUS, CONTINENTAL

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LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

NORTH AMERICA

NEVADA

SAMPLES FOR STUDY BY CARL HEDGE

U.S. NV	(PHA) H-64-86	WR	GEL-N	18.654	15.702	39.628	AND
U.S. NV	(PHA) CHARCOAL	WR	GEL-N	19.145	15.714	39.803	GRA
U.S. NV	(PHA) CB-64-29	WR	GEL-N	19.253	15.747	39.867	AND
U.S. NV	(PHA) CHERRY	KF	GEL-N	19.284	15.803	40.553	GRA
U.S. NV	(PHA) PS64B-27	WR	GEL-N	19.634	15.736	39.509	AND
U.S. NV	(PHA) PS64P-22	WR	GEL-N	19.665	15.744	39.586	AND

CORTEZ GOLD MINING DISTRICT

U.S.	NV	CORTEZ (PHA)J269	KF	PBS-N	19.32	15.70	39.12	GRA	RDW	74U
U.S.	NV	CORTEZ (PHA)J272	KF	PBS-N	19.25	15.67	38.95	RHY	RDW	74U
U.S.	NV	CORTEZ (PHA)J254A	KF	PBS-N	19.38	15.76	39.33	RHY	RDW	74U
U.S.	NV	CORTEZ (PHA)J256	KF	PBS-N	19.74	15.74	39.25	ALS	RDW	74U
U.S.	NV	CORTEZ (PHA)J258	KF	PBS-N	19.50	15.80	38.87	GRA	RDW	74U
U.S.	NV	CORTEZ (PHA)W302	KF	GEL-N	19.303	15.708	39.119	RHY	RDW	74U

NEVADA TEST SITE

U.S.	NV	NEV. TEST (PHA)7L204C	KF	PBS-N	18.14	15.64	39.25	RHY	DOE	70M
U.S.	NV	NEV. TEST (PHA)7L204D	KF	PBS-N	18.19	15.61	39.12	Q-L	DOE	70M
U.S.	NV	NEV. TEST (PHA)7L209-11	KF	PBS-N	18.07	15.63	39.07	RHY	DOE	70M
U.S.	NV	NEV. TEST (PHA)7L209-14	KF	PBS-N	18.37	15.67	39.13	Q-L	DOE	70M

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NEW MEXICO

RIO GRANDE DEPRESSION

U.S.	NM	RIO GRAN(CEN)6561302	WR	PBS-N	17.33	15.42	37.03	BAS	DLHK	69C0
U.S.	NM	RIO GRAN(CEN)6561501	WR	PBS-N	17.35	15.47	37.07	BAS	DLHK	69C0
U.S.	NM	RIO GRAN(CEN)A54-14	WR	PBS-N	17.74	15.45	37.44	BAS	DOE	67F
U.S.	NM	JEMEZ MT(CEN)LOS POSO	GL	PBS-N	17.97	15.52	37.83	OBS	DOE	67F
U.S.	NM	JEMEZ MT(CEN)6561304	WR	PBS-N	18.05	15.46	37.39	BAS	DLHK	69C0
U.S.	NM	JEMEZ MT(CEN)ARROYO H	GL	PBS-N	18.16	15.48	37.84	OBS	DOE	67F
U.S.	NM	AG CITY (CEN)JC147-54	WR	PBS-N	18.21	15.51	37.98	OBS	DOE	67F
U.S.	NM	JEMEZ MT(CEN)J54-4	WR	PBS-N	18.30	15.41	37.70	BAS	DOE	67F
U.S.	NM	POTRILLO(CEN)POTRIL.	WR	GEL-N	18.54	15.53	38.22	BAS	Z-T	73L

ROCKS, MESOZOIC AND CENOZOIC
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OREGON

U.S.	OR	JOHN DAY(CEN)TG-8B	GL	GEL-N	19.11	15.62	38.76	OBS	CHUR	76L
U.S.	OR	JOHN DAY(CEN)TG-8B	GL	GEL-N	19.12	15.63	38.76	OBS	CHUR	76L
U.S.	OR	JOHN DAY(CEN)TG-8	GL	PBS-N	19.18	15.65	39.25	OBS	DOE	67F
U.S.	OR	JOHN DAY(CEN)62-110	WR	GEL-N	19.11	15.59	38.71	RHY	CHUR	76L
U.S.	OR	JOHN DAY(CEN)62-136	WR	GEL-N	19.12	15.60	38.75	RHY	CHUR	76L
U.S.	OR	JOHN DAY(CEN)62-137	WR	GEL-N	19.13	15.60	38.70	RHY	CHUR	76L
U.S.	OR	JOHN DAY(CEN)62-376	WR	GEL-N	19.13	15.61	38.75	RHY	CHUR	76L
U.S.	OR	SILETZ R(CEN)SAB59-1A	WR	PBS-N	18.86	15.46	38.24	BAS	T-S	69J

U.S. OR SILETZ R(CEN)SR61-116	WR	PBS-N	19.36	15.57	38.87	BAS	T-S	69J
U.S. OR SILETZ R(CEN)SR65-111	WR	PBS-N	19.19	15.53	38.75	BAS	T-S	69J
U.S. OR SILETZ R(CEN)SR63-190	WR	PBS-N	19.28	15.63	39.16	BAS	T-S	69J
U.S. OR SILETZ R(CEN)SR63-194	WR	PBS-N	19.26	15.52	38.65	GAB	T-S	69J
U.S. OR SILETZ R(CEN)SE64-4	WR	PBS-NC	19.15	15.43	38.51	BAS	T-S	69J
U.S. OR SILETZ R(CEN)SR59-82	WR	PBS-NC	19.43	15.55	39.01	BAS	T-S	69J
U.S. OR SILETZ R(CEN)OPS-14	WR	PBS-NC	19.43	15.55	39.04	BAS	T-S	69J
U.S. OR CAPE MTN(EOC)SR63-45	WR	PBS-NC	19.10	15.50	38.49	BAS	T-S	69J
U.S. OR DEVILS C(EOC)SW62-1	WR	PBS-NC	19.21	15.59	38.93	DAC	T-S	69J
U.S. OR TABLE MT(CEN)SR59-46	WR	PBS-N	19.46	15.63	39.04	SYN	T-S	69J
U.S. OR SILETZ R(CEN)SR59-9	WR	PBS-NC	19.92	15.66	39.55	INT	T-S	69J
U.S. OR LAMBERT (CEN)SE57-34	WR	PBS-NC	19.07	15.60	38.70	GAB	T-S	69J
U.S. OR MARYS PK(CEN)SR65-55	WR	PBS-NC	19.18	15.60	38.83	BAS	T-S	69J
U.S. OR MARYS PK(CEN)SR65-115	WR	PBS-N	19.09	15.59	38.79	DIO	T-S	69J
U.S. OR MARYS PK(CEN)SR65-115	WR	PBS-N	19.12	15.60	38.75	PEG	T-S	69J
U.S. OR MARYS PK(CEN)SR65-54	WR	PBS-NC	18.98	15.58	38.79	APL	T-S	69J
U.S. OR NEAHKAHN(MIO)SR59-17C	WR	PBS-N	18.70	15.61	38.97	DIO	T-S	69J
U.S. OR NEAHKAHN(MIO)SR59-17F	WR	PBS-N	18.72	15.66	39.05	DIO	T-S	69J
U.S. OR DEPOE BA(CEN)WCF59-1	WR	PBS-NC	18.68	15.64	38.65	BAS	T-S	69J
U.S. OR OTTER CR(CEN)SR62-17	WR	PBS-NC	18.85	15.58	38.62	BAS	T-S	69J
U.S. OR MT. HOOD(CEN)H68-1	WR	GEL-N	18.80	15.56	38.38	DAC	CHUR76L	
U.S. OR MT. HOOD(CEN)H68-4B	WR	PBS-N	18.80	15.56	38.38	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-9A	WR	GEL-N	18.81	15.54	38.41	BAS	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-9B	WR	GEL-N	18.76	15.58	38.27	XEN	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-14	WR	GEL-N	18.78	15.54	38.30	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-14P	WR	PBS-N	18.75	15.55	38.39	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-14GM	WR	PBS-N	18.73	15.53	38.33	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)H68-15	WR	PBS-N	18.77	15.54	38.41	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)CR-2	WR	PBS-N	18.92	15.55	38.42	BAS	C-T	73GB
U.S. OR MT. HOOD(CEN)CR-3	WR	PBS-N	18.77	15.54	38.42	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)CR-7	WR	PBS-N	18.80	15.59	38.49	AND	C-T	73GB
U.S. OR MT. HOOD(CEN)CR68-9	WR	PBS-N	18.87	15.56	38.50	BAS	C-T	73GB
U.S. OR 3SISTERS(CEN)S68-7	WR	GEL-N	18.88	15.59	38.63	AND	C-T	73GB
U.S. OR 3SISTERS(CEN)RB68-3E	WR	PBS-N	18.85	15.61	38.54	BAS	C-T	73GB
U.S. OR NEWBERRY(CEN)NC-PC-3	WR	GEL-N	18.96	15.57	38.69	BAS	C-T	73GB
U.S. OR NEWBERRY(CEN)NC-PC-6	WR	GEL-N	18.97	15.63	38.68	AND	C-T	73GB
U.S. OR NEWBERRY(CEN)NC68-2	WR	GEL-N	19.04	15.61	38.62	OBS	CHUR76L	
U.S. OR CRATER L(CEN)CL68-6	WR	GEL-N	18.83	15.57	38.47	DAC	C-T	73GB
U.S. OR CRATER L(CEN)CL68-11	WR	GEL-N	18.93	15.62	38.59	BAS	C-T	73GB
U.S. OR DIA. CRA.(CEN)DC-1	WR	GEL-N	18.889	15.616	38.633	BAS		

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SOUTH DAKOTA

U.S. SD, BLACK HI(CEN)ROUBAIX	GL	PBS-N	17.89	15.61	38.38	OBS	DCE	67P
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U.S.	SD	BLACK HI(CEN)P-9-F	KF	GEL-N	18.307	15.588	38.015	GRA	RDD	74E
U.S.	SD	BLACK HI(CEN)P-9-FI	KF	GEL-NC	18.25	15.58	37.98	GRA	RDD	74F
U.S.	SD	BLACK HI(CEN)P-15-F	KF	GEL-N	22.20	15.72	42.14	GRA	RDD	74E
U.S.	SD	BLACK HI(CEN)P-15-FI	KF	GEL-NC	18.15	15.53	35.76	GRA	RDD	74E

TEXAS

U.S.	TX	TASCOTAL(CEN)TM294	WR	PBS-N	17.77	15.60	37.78	RHY	DUE	67P
U.S.	TX	TASCOTAL(CEN)284	WR	PBS-N	17.77	15.61	37.94	RHY	DUE	67P

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NORTH AMERICA

UTAH

U.S.	UT	GOLD HIL(CEN)GH-39	WR	GEL-N	18.925	15.675	39.250	BAS		
U.S.	UT	GOLD HIL(CEN)	WR	GEL-N	18.908	15.837	40.471	AND		
U.S.	UT	GOLD HIL(CEN)GH70-6	KF	GEL-N	18.658	15.758	39.996	GRA		
U.S.	UT	GOLD HIL(CEN)GOLDHILL	KF	GEL-N	18.668	15.761	40.028	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-5A	KF	GEL-N	18.685	15.726	39.908	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-2	KF	GEL-N	18.713	15.774	40.079	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-15B	KF	GEL-N	19.507	15.742	39.499	GRA		
U.S.	UT	GOLD HIL(CEN)	KF	GEL-N	19.537	15.812	40.170	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-15A	KF	GEL-N	19.566	15.841	40.230	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-19	KF	GEL-N	19.568	15.812	40.139	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-18	KF	GEL-N	19.611	15.838	40.302	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-13A	KF	GEL-N	19.645	15.832	40.173	GRA		
U.S.	UT	GOLD HIL(CEN)GH70-10	KF	GEL-N	19.733	15.860	40.366	GRA		
U.S.	UT	BINGHAM (CEN)65US93	KF	PBS-N	17.71	15.66	38.56	GRA	SZK	68E
U.S.	UT	BINGHAM (CEN)66US16	KF	PBS-N	17.87	15.64	38.55	GRA	SZK	68E
U.S.	UT	TINTIC (CEN)SILVER	KF	PBS-N	18.64	15.66	38.79	GRA	SZK	68E
U.S.	UT	DESERT M(CEN)DESERT	KF	PBS-N	18.82	15.66	39.01	GRA	SZK	68E
U.S.	UT	STAR (CEN)N. STAR	KF	PBS-N	18.37	15.60	38.53	GRA	SZK	68E
U.S.	UT	LINCOLN (CEN)BLUE S.	KF	PBS-N	18.72	15.65	38.65	GRA	SZK	68E
U.S.	UT	LA SAL (CEN)LS3-63	KF	PUB	19.27	15.65	38.60	SYN	SNKS	65J
U.S.	UT	LA SAL (CEN)LS2-63	KF	PUB	19.37	15.72	38.69	GRA	SNKS	65J
U.S.	UT	LA SAL (CEN)LS1-63	KF	PUB	18.27	15.55	37.62	DIO	SNKS	65J

ROCKS, MESOZOIC AND CENOZOIC
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NORTH AMERICA

WASHINGTON

VOLCANIC ROCKS

U.S. WA RAINIER (CEN)R58-10	GL	GEL-N	19.04	15.60	38.76	OBS	CHUR76L
U.S. WA RAINIER (CEN)R58-10	GL	GEL-N	19.04	15.60	38.73	OBS	CHUR76L
U.S. WA RAINIER (CEN)R58-10	GL	PBS-N	19.06	15.63	38.86	OBS	DOE 67P
U.S. WA BODIE MT(CEN)50P61	GL	PBS-N	15.96	15.62	38.67	OBS	DOE 67P
U.S. WA ALDER BL(MIO)SR64-209	WR	PBS-NC	18.36	15.63	39.62	BAS	T-S 69J
U.S. WA PACK SAC(MIO)SR65-130	WR	PBS-NC	18.23	15.57	39.40	BAS	T-S 69J
U.S. WA MT.BAKER(CEN)B-68-2	WR	GEL-N	18.73	15.52	38.18	AND	CHUR76L
U.S. WA MT.BAKER(CEN)B68-13b	WR	GEL-N	18.88	15.55	38.35	AND	CHUR76L
U.S. WA MT.BAKER(CEN)B68-13A	WR	GEL-N	18.90	15.55	38.43	AND	C-T 73GB
U.S. WA GLACIER (CEN)GP-1	WR	GEL-N	18.92	15.63	38.63	AND	CHUR76L
U.S. WA GLACIER (CEN)GP26B-62	WR	PBS-N	18.85	15.62	38.62	DAC	C-T 73GB
U.S. WA GLACIER (CEN)DFC65-61	WR	GEL-N	18.63	15.51	38.05	BAS	CHUR76L
U.S. WA RAINIER (CEN)RR-4	WR	PBS-N	18.98	15.61	38.66	AND	C-T 73GB
U.S. WA RAINIER (CEN)R2-1	WR	PBS-N	18.91	15.58	38.55	AND	C-T 73GB
U.S. WA ST.HELEN(CEN)SH28-1	WR	GEL-N	18.83	15.57	38.44	DAC	CHUR76L
U.S. WA ST.HELEN(CEN)SH29-1	WR	PBS-N	18.83	15.60	38.60	AND	C-T 73GB
U.S. WA ST.HELEN(CEN)SH34-1	WR	PBS-N	18.87	15.62	38.72	BAS	C-T 73GB
U.S. WA MT.ADAMS(CEN)A-68-18	WR	PBS-N	18.99	15.60	38.56	AND	C-T 73GB
U.S. WA MT.ADAMS(CEN)A-68-23	WR	PBS-N	18.99	15.65	38.62	AND	C-T 73GB

PLUTONIC ROCKS

U.S. WA SIMCO MT(CEN)CMI-1	WR	PBS-N	19.26	15.63	38.71	BAS	C-T 73GB
U.S. WA SIMCO MT(CEN)SM-3	WR	GEL-N	19.09	15.61	38.70	DAC	CHUR76L
U.S. WA CLOUDY P(CEN)CR20	WR	PBS-N	19.04	15.52	38.46	GRA	C-T 73GB
U.S. WA CLOUDY P(CEN)CR21	WR	PBS-N	18.99	15.55	38.77	GRA	C-T 73GB
U.S. WA SITKUM H(CEN)WT212-62	WR	PBS-N	19.04	15.58	38.59	GRA	C-T 73GB
U.S. WA DUNCAN H(CEN)C541	WR	GEL-N	18.99	15.62	38.62	GRA	C-T 73GB
U.S. WA DUNCAN H(CEN)C685	WR	GEL-N	18.93	15.62	38.60	GRA	C-T 73GB
U.S. WA DUNCAN H(CEN)C795	WR	GEL-N	18.94	15.59	38.50	GRA	C-T 73GB

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NORTH AMERICA

WYOMING

U.S. WY ABSAROKA(CEN)P-205A	WR	PBS-N	16.634	15.436	37.241	AND	PDP 7000
U.S. WY ABSAROKA(CEN)P-205A	WR	PBS-NC	16.601	15.418	37.201	AND	PDP 7000
U.S. WY ABSAROKA(CEN)P-205B	WR	PBS-N	16.606	15.395	37.711	AND	PDP 7000

U.S. WY ABSAROKA(CEN)P-205B	WR	PBS-NC	16.574	15.393	37.131	AND	PDP	7000
U.S. WY ABSAROKA(CEN)P-496	WR	PBS-N	16.302	15.402	36.822	AND	PDP	7000
U.S. WY ABSAROKA(CEN)P-496	WR	PBS-NC	16.272	15.401	36.782	AND	PDP	7000
U.S. WY ABSAROKA(CEN)7PD-1	WR	PBS-N	16.472	15.334	36.703	AND	PDP	7000
U.S. WY ABSAROKA(CEN)7PD-1	WR	PBS-NC	16.438	15.332	36.663	AND	PDP	7000
U.S. WY ABSAROKA(CEN)P-14	WR	PBS-N	17.085	15.511	37.868	SHO	PDP	7000
U.S. WY ABSAROKA(CEN)P-14	WR	PBS-NC	17.022	15.508	37.778	SHO	PDP	7000
U.S. WY ABSAROKA(CEN)P-348	KF	PBS-N	17.261	15.530	37.480	RHY	PDP	7000
U.S. WY ABSAROKA(CEN)P-497	WR	PBS-N	16.850	15.397	37.221	SHO	PDP	7000
U.S. WY ABSAROKA(CEN)P-497	WR	PBS-NC	16.829	15.394	37.161	SHO	PDP	7000
U.S. WY ABSAROKA(CEN)P-306	KF	PBS-N	16.842	15.450	37.480	RHY	PDP	7000

U.S. WY YELLOWST(CEN)YP-53-12	GL	PBS-N	16.58	15.44	38.56	RHY	DOE	67P
U.S. WY YELLOWST(CEN)6YC-138	WR	GEL-N	16.60	15.42	38.42	RHY		
U.S. WY YELLOWST(CEN)6YC-133	WR	GEL-N	16.70	15.39	37.50	BAS		
U.S. WY YELLOWST(CEN)6YC-133	WR	PBS-N	16.68	15.39	37.48	BAS		
U.S. WY YELLOWST(CEN)6YC-130	WR	PBS-N	16.79	15.39	37.59	BAS		
U.S. WY YELLOWST(CEN)6YC-139	WR	GEL-N	16.79	15.40	38.12	BAS		
U.S. WY YELLOWST(CEN)6YC-139	WR	PBS-N	16.84	15.47	38.28	RHY		
U.S. WY YELLOWST(CEN)2YR-118	KF	GEL-N	16.87	15.47	38.00	RHY		
U.S. WY YELLOWST(CEN)2YR-118	GL	GEL-N	16.892	15.492	38.049	RHY		
U.S. WY YELLOWST(CEN)6YC-145	WR	GEL-N	16.96	15.50	37.92	BAS		
U.S. WY YELLOWST(CEN)6YC-145	WR	PBS-N	16.99	15.50	38.14	BAS		
U.S. WY YELLOWST(CEN)OCB66-01	KF	GEL-N	17.00	15.49	38.06	RHY		
U.S. WY YELLOWST(CEN)OCB66-01	KF	PBS-N	17.03	15.51	38.11	RHY		
U.S. WY YELLOWST(CEN)OCB66-01	KF	PBS-N	17.06	15.50	38.33	RHY		
U.S. WY YELLOWST(CEN)6YC-137	GL	GEL-N	17.14	15.54	38.29	RHY		
U.S. WY YELLOWST(CEN)6YC-137	GL	PBS-N	17.17	15.57	38.38	RHY		
U.S. WY YELLOWST(CEN)YP-52-73	GL	PBS-N	17.18	15.59	38.40	RHY	DOE	67P
U.S. WY YELLOWST(CEN)6YC-144	WR	GEL-N	17.23	15.51	38.13	BAS		
U.S. WY YELLOWST(CEN)6YC-144	WR	PBS-N	17.20	15.46	38.06	BAS		
U.S. WY YELLOWST(CEN)69-0-20	KF	GEL-N	17.24	15.55	38.33	RHY		
U.S. WY YELLOWST(CEN)6YC-140B	WR	PBS-N	17.24	15.49	38.23	BAS		

U.S. WY YELLOWST(CEN)OCB-601	KF	GEL-N	17.253	15.559	38.279	RHY		
U.S. WY YELLOWST(CEN)6YC-132	WR	PBS-N	17.26	15.47	37.71	BAS		
U.S. WY YELLOWST(CEN)OCB66-04	KF	PBS-N	17.26	15.56	38.35	RHY		
U.S. WY YELLOWST(CEN)YG-70-4	KF	GEL-N	17.27	15.55	38.43	RHY		
U.S. WY YELLOWST(CEN)6YC-134	WR	PBS-N	17.28	15.48	37.77	BAS		
U.S. WY YELLOWST(CEN)6YC-146	GL	PBS-N	17.28	15.53	38.38	RHY		
U.S. WY YELLOWST(CEN)6YC-147	GL	PBS-N	17.29	15.57	38.46	RHY		
U.S. WY YELLOWST(CEN)OCB-563	KF	GEL-N	17.291	15.573	38.447	RHY		
U.S. WY YELLOWST(CEN)6YC-146	GL	GEL-N	17.30	15.54	38.42	RHY		
U.S. WY YELLOWST(CEN)6YC-146	WR	PBS-N	17.34	15.62	38.64	RHY		
U.S. WY YELLOWST(CEN)6YC-142	WR	PBS-N	17.31	15.52	38.24	BAS		
U.S. WY YELLOWST(CEN)6YC-135	WR	PBS-N	17.43	15.56	38.01	RHY		
U.S. WY YELLOWST(CEN)6YC-169	WR	PBS-N	17.53	15.56	38.24	RHY		
U.S. WY YELLOWST(CEN)YG72-5	GL	GEL-N	17.549	15.568	38.329	RHY		
U.S. WY YELLOWST(CEN)OCB-66-1	KF	GEL-N	17.55	15.55	38.23	RHY		
U.S. WY YELLOWST(CEN)OCB-66-1	KF	PBS-N	17.55	15.56	38.16	RHY		
U.S. WY YELLOWST(CEN)OCB-66-1	KF	PBS-N	17.60	15.62	38.41	RHY		
U.S. WY YELLOWST(CEN)720-76	KF	GEL-N	17.622	15.590	38.323	RHY		

U.S., WY, YELLOWST (CEN) 720-76 GL GEL-A 17.631 15.595 38.335 RHY

IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA
IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA
IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG	III	AAA AAA
III	GGG GGGGG	III	AAAAAAA
III	GGG GGGGG	III	AAAAAAA
III	GGG GGGGG	III	AAAAAAA
III	GGG GGG	III	AAA AAA
III	GGG GGG	III	AAA AAA
III	GGG GGG	III	AAA AAA
IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA AAA
IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA AAA
IIIIIIIII	GGGGGGGGGG	IIIIIIIII	AAA AAA

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ROCKS, MESOZOIC AND CENOZOIC (IGIA.GRA)
ISLAND ARCS, IGNEOUS

(3 JUNE 1975)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 206/2U4 207/2U4 208/2U4 TYPE REFER.

OTHER AREAS

CARIBBEAN

AOB /CB/ DOMINICA (CEN) 64-22	WR PUB	19.400	15.731	39.175	AND	DRPA71GM
AOB /CB/ DOMINICA (CEN) 64-19	WR PUB	19.307	15.685	39.020	AND	DRPA71GM
AOB /CB/ MONTSERR (CEN) 64-30	WR PUB	18.939	15.621	38.628	AND	DRPA71GM
AOB /CB/ MONTSERR (CEN) 64-37	WR PJB	18.772	15.606	38.653	AND	DRPA71GM
AOB /CB/ ST. KITTS (CEN) 64-39	WR PUB	18.952	15.658	38.711	AND	DRPA71GM
AOB /CB/ ST. KITTS (CEN) 64-40	WR PUB	18.868	15.640	38.629	BAS	DRPA71GM
AOB /CB/ MONTSERR (CEN) 64-26	WR PUB	18.918	15.694	38.785	BAS	DRPA71GM
AOB /CB/ CULEBRA (CEN) 64-14	WR PUB	18.855	15.594	38.572	BAS	DRPA71GM
AOB /CB/ ST. THOMA (CEN) 63-91	WR PUB	18.864	15.570	38.301	DIA	DRPA71GM
AOB /CB/ ST. THOMA (CEN) 68-1-20	WR PJB	18.336	15.467	37.644	KER	DRPA71GM
AOB /CB/ ST. THOMA (CEN) 61-80C	WR PUB	18.106	15.410	37.461	KER	DRPA71GM
AOB /CB/ ST. THOMA (CEN) 63-76A	WR PUB	18.345	15.499	37.607	SPI	DRPA71GM
AOB /CB/ ST. JOHN (CEN) 425	WR PUB	18.333	15.543	37.804	SPI	DRPA71GM
AOB /CB/ L. PALMAS (CEN) 61-D3	WR PJB	18.41	15.40	37.58	AMP	DRPA71GM

ITALY

CAMPANIA GREY TUFF

ITAL/S./ CAMPANIA (CEN) IC-1	WR PJB-N	19.176	15.704	39.301	TRA	VOLL76A
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CIMINO

ITAL/S./ CIMINO (CEN) CIM-1	WR PUB-N	18.734	15.692	39.040	RHD	VOLL76A
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PIETRA NERE

ITAL/S./ NERE (CEN) B-1	WR PJB-N	19.80	15.70	39.43	SYN	VOLL76A
ITAL/S./ NERE (CEN) PDPN-A	WR PUB-N	20.009	15.708	39.738	SYN	VOLL76A
ITAL/S./ NERE (CEN) PDPN-B	WR PUB-N	20.017	15.721	39.777	SYN	VOLL76A

PONI

ITAL/SA/M. PONI (CEN) B9	WR PUB	18.10	15.87	38.53	GAL	R-F 60I
ITAL/SA/M. PONI (CEN) B7	WR PUB	18.37	15.71	38.66	GAL	R-F 60I

RADICOFANI

ITAL/S./ RADICOF. (CEN) RAD-B	WR PUB-N	18.707	15.698	39.083	LAT	VOLL76A
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ROCCAMONFINA

ITAL/S./ ROCCAMO. (CEN) RM-1	WR PUB-N	18.883	15.696	39.131	LAT	VOLL76A
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SABATINI

ITAL/S./ SABATINI (CEN) S-1	WR PUB-N	18.735	15.687	39.045	TRA	VOLL76A
ITAL/S./ SABATINI (CEN) S-2	WR PJB-N	18.761	15.692	39.040	TRA	VOLL76A

ITAL,S.,SABATINI (CEN)S-3	WR	PJB-N	18.762	15.668	38.993	PHO	VOLL76A
VESUVIUS							
ITAL,S.,VESUVIO (CEN)SOM	WR	PUB-N	18.946	15.671	39.076	PHO	VOLL76A
ITAL,S.,VESUVIO (CEN)VES-A	WR	PUB-N	19.035	15.692	39.134	PHO	VOLL76A
ITAL,S.,VESUVIO (CEN)VES-B	WR	PUB-N	19.040	15.690	39.145	PHO	VOLL76A
ITAL,S.,VESUVIO (CEN)	WR	PJB	19.14	15.78	39.48	BAS	O-G 68L
ITAL,S.,VESUVIO (CEN)B76	WR	PJB	19.04	15.70	39.11	GAL	R-F 60I
ITAL,S.,VESUVIO (QUA)B(AVG.6)	WR	PUB	19.08	15.76	39.35	COT	R-F 60I
ITAL,S.,VESUVIO (QUA)B(AVG.5)	WR	PUB	19.16	15.77	39.44	COT	R-F 60I
ITAL,S.,VESUVIO (CEN)B58	WR	PUB	19.16	15.80	39.50	GAL	R-F 60I
VICO							
ITAL,S.,VICO (CEN)VI-6	WR	PUB-N	18.728	15.667	38.975	TRA	VOLL76A
ITAL,S.,VICO (CEN)VI-8	WR	PUB-N	18.737	15.688	39.033	PHO	VOLL76A
ITAL,S.,VICO (CEN)VI-3	WR	PJB-N	18.740	15.697	39.060	LAT	VOLL76A
ITAL,S.,VICO (CEN)VI-9	WR	PUB-N	18.745	15.681	39.013	TRA	VOLL76A
VULCANO LAZIANE							
ITAL,S.,LAZIANE (CEN)ALB-1	WR	PUB-N	18.779	15.699	39.061	PHO	VOLL76A
VULSINI							
ITAL,S.,VULSINI (CEN)VLSLA	WR	PJB-N	18.728	15.676	39.000	LAT	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-5	WR	PUB-N	18.735	15.683	39.039	LAT	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-11	WR	PUB-N	18.739	15.663	38.938	PHO	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-4	WR	PUB-N	18.747	15.671	38.969	TRA	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-2	WR	PUB-N	18.750	15.706	39.078	TRA	VOLL76A
ITAL,S.,VULSINI (CEN)VEN	WR	PUB-N	18.752	15.703	39.031	MEL	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-12	WR	PUB-N	18.770	15.699	39.064	PHO	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-1A	WR	PUB-N	18.756	15.711	39.149	PHO	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-3	WR	PUB-N	18.759	15.702	39.056	PHO	VOLL76A
ITAL,S.,VULSINI (CEN)VLS-1B	WR	PUB-N	18.777	15.696	39.133	PHO	VOLL76A
VULTURE							
ITAL,S.,VULTURE (CEN)VU-621A	WR	PUB-N	19.155	15.668	39.122	BAS	VOLL76A
ITAL,S.,VULTURE (CEN)VU-621B	WR	PJB-N	19.155	15.669	39.114	BAS	VOLL76A
ITAL,S.,VULTURE (CEN)VULT-2	WR	PJB-N	19.245	15.721	39.268	MUG	VOLL76A
ITAL,S.,VULTURE (CEN)VU-342	WR	PUB-N	19.265	15.679	39.256	PHO	VOLL76A
ITAL,S.,VULTURE (CEN)VULT-1	WR	PJB-N	19.311	15.720	39.375	PHO	VOLL76A

JAPAN

NIH ,HO,IWATE (CEN)301	WR	PBS-N	18.51	15.59	38.52	BAS	H-K 69GJ
NIH ,HO,IWATE (CEN)302	WR	PBS-N	18.53	15.57	38.52	AND	H-K 69GJ
NIH ,HO,MORIYOSI(CEN)001	WR	PBS-N	18.55	15.59	38.54	AND	H-K 69GJ
NIH ,HO,MORIYOSI(CEN)002	WR	PBS-N	18.51	15.54	38.42	DAC	H-K 69GJ
NIH ,HO,KAMPUZAN(CEN)203	WR	PBS-N	18.56	15.56	38.42	AND	H-K 69GJ
NIH ,HO,KAMPUZAN(CEN)204	WR	PBS-N	18.49	15.49	38.26	AND	H-K 69GJ
NIH ,HO,ICHINOME(CEN)10R-1	WR	PBS-N	18.38	15.54	38.38	INT	H-K 69GJ
NIH ,HO,ICHINOME(CEN)10N-1	WR	PBS-N	18.27	15.51	38.22	GAB	H-K 69GJ
NIH ,HO,ICHINOME(CEN)10X-1	WR	PBS-N	18.39	15.55	38.35	GRA	H-K 69GJ
NIH ,HK,OSHIMA O(CEN)0V-1	WR	PBS-N	18.33	15.49	38.07	AND	H-K 69GJ
NIH ,HK,OSHIMA O(CEN)0V-2	WR	PBS-N	18.20	15.53	38.10	BAS	H-K 69GJ

NIH	/HO/OKI	DOGO(CEN)65110301	WR	P3S-N	17.93	15.41	38.16	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110401	WR	P3S-N	17.97	15.42	38.06	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110402	WR	P3S-N	17.98	15.39	38.07	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110403	WR	P3S-N	18.00	15.41	38.10	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110504	WR	P3S-N	17.83	15.43	38.16	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110302	WR	P3S-N	17.74	15.38	37.89	BAS	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110503	WR	P3S-N	18.16	15.38	38.01	AND	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110405	WR	P3S-N	17.95	15.43	38.08	MUG	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110407	WR	P3S-N	17.69	15.40	38.08	MUG	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110408	WR	P3S-N	17.68	15.45	38.22	TRA	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110501	WR	P3S-N	17.81	15.46	38.32	TRA	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110502	WR	P3S-N	17.74	15.41	38.14	RHY	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110406	WR	P3S-N	17.85	15.42	38.33	RHY	KUR	68GJ
NIH	/HO/OKI	DOGO(CEN)65110404	WR	P3S-N	17.80	15.41	38.21	RHY	KUR	68GJ
NIH	/KY/TAKASHI	M(CEN)65110902	WR	P3S-N	17.68	15.31	37.59	BAS	KUR	68GJ
NIH	/HO/OSHIMA	(CEN)66060901	WR	P3S-N	18.33	15.54	38.19	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)66060902	WR	P3S-N	18.42	15.52	38.26	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)65102602	WR	P3S-N	18.37	15.53	38.22	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)65102601	WR	P3S-N	18.40	15.53	38.27	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)65102502	WR	P3S-N	18.42	15.55	38.29	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)65102501	WR	P3S-N	18.43	15.57	38.37	BAS	T-K	69GJ
NIH	/HO/OSHIMA	(CEN)JCP-1	WR	P3S-N	18.41	15.53	38.26	BAS	TATS	66J
NIH	/HO/HAKONE	(CEN)65111001	WR	P3S-N	18.36	15.53	38.26	BAS	T-K	69GJ
NIH	/HO/HAKONE	(CEN)JHK-2	WR	P3S-N	18.34	15.53	38.25	BAS	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102302	WR	P3S-N	18.35	15.53	38.25	BAS	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102206	WR	P3S-N	18.21	15.48	38.04	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102203	WR	P3S-N	18.29	15.52	38.17	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102201	WR	P3S-N	18.29	15.54	38.24	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102207	WR	P3S-N	18.25	15.50	38.13	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102205	WR	P3S-N	18.29	15.50	38.15	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102203	WR	P3S-N	18.26	15.49	38.11	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102204	WR	P3S-N	18.29	15.53	38.23	AND	T-K	69GJ
NIH	/HO/HAKONE	(CEN)65102301	WR	P3S-N	18.26	15.51	38.13	AND	T-K	69GJ
NIH	/HO/FUJI-SAN	(CEN)65102101	WR	P3S-N	18.30	15.54	38.25	BAS	T-K	69GJ
NIH	/HO/FUJI-SAN	(CEN)65102208	WR	P3S-N	18.27	15.51	38.16	BAS	T-K	69GJ
NIH	/HO/FUJI-SAN	(CEN)65102208	WR	P3S-N	18.33	15.58	38.35	SEG	T-K	69GJ
NIH	/HO/FUJI-SAN	(CEN)JHK-3	WR	P3S-N	18.28	15.51	38.16	BAS	TATS	66J
NIH	/HO/FUJI-SAN	(CEN)65103101	WR	P3S-N	18.30	15.55	38.28	BAS	T-K	69GJ
NIH	/HO/SUKUMO	(CEN)65102303	WR	P3S-N	18.23	15.49	38.07	BAS	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102304	WR	P3S-N	18.21	15.50	38.09	BAS	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102403	WR	P3S-N	18.23	15.50	38.06	AND	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102405	WR	P3S-N	18.25	15.52	38.16	BAS	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102401	WR	P3S-N	18.20	15.52	38.11	AND	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102402	WR	P3S-N	18.22	15.51	38.12	XEN	T-K	69GJ
NIH	/HO/OMURO-YA	(CEN)65102404	WR	P3S-N	18.20	15.50	38.08	AND	T-K	69GJ
NIH	/HO/AMAGI	(CEN)65102406	WR	P3S-N	18.26	15.55	38.25	AND	T-K	69GJ
NIH	/HO/AMAGI	(CEN)65102407	WR	P3S-N	18.22	15.51	38.12	DAC	T-K	69GJ
NIH	/HO/AMAGI	(CEN)65111002	WR	P3S-N	18.23	15.53	38.18	DAC	T-K	69GJ
NIH	/HO/YATSUGA	(CEN)8	WR	P3S-N	18.37	15.57	38.46	AND	TATS	69L
NIH	/HK/SHOWASHI	(CEN)JSD	WR	P3S-N	18.58	15.61	38.65	DAC	STRK	66L

TONGA-KERMADEC-NEW ZEALAND ISLAND ARC SYSTEM

TONGA ISLANDS

POB	TO	METIS SH(CEN)GLASS	GL	PUB-N	18.47	15.51	37.97	RHY	O-E	7200
POB	TO	FONUALEI(CEN)20	WR	PUB-N	18.50	15.53	38.08	AND	O-E	7200
POB	TO	HUNGA (CEN)HU.-TOP	WR	PUB-N	18.51	15.54	38.07	BAS	O-E	7200
POB	TO	LATE (CEN)7	WR	PUB-N	18.52	15.54	38.11	BAS	O-E	7200
POB	TO	LATE (CEN)13	WR	PUB-N	18.52	15.55	38.13	AND	O-E	7200
POB	TO	HUNGA (CEN)HU.-BOT	WR	PUB-N	18.52	15.57	38.15	BAS	O-E	7200
POB	TO	LATE (CEN)1	WR	PUB-N	18.53	15.54	38.10	BAS	O-E	7200
POB	TO	FONUALEI(CEN)39	WR	PUB-N	18.53	15.56	38.14	DAC	O-E	7200
POB	TO	FONUALEI(CEN)8	WR	PUB-N	18.54	15.55	38.17	DAC	O-E	7200
POB	TO	LATE (CEN)3	WR	PUB-N	18.55	15.55	38.11	BAS	O-E	7200
POB	TO	FONUALEI(CEN)31	WR	PUB-N	18.55	15.55	38.16	AND	O-E	7200
POB	TO	EUA (CEN)1&H	WR	PUB-N	18.76	15.60	38.37	AND	O-E	7200
POB	TO	EUA (CEN)11	WR	PUB-N	18.83	15.64	38.51	BAS	O-E	7200

KERMADEC ISLANDS

POB	KE	RAOUL (CEN)7128	WR	PUB-N	18.31	15.55	37.93	BAS	O-E	7200
POB	KE	NAPIER (CEN)14764	WR	PUB-N	18.44	15.54	38.15	BAS	O-E	7200
POB	KE	MACAUL (CEN)10380	WR	PUB-N	18.62	15.57	38.32	BAS	O-E	7200
POB	KE	RAOUL (CEN)7005	WR	PUB-N	18.63	15.56	38.31	DAC	O-E	7200
POB	KE	ESPERANC(CEN)14831	WR	PUB-N	18.73	15.59	38.47	BAS	O-E	7200

NEW ZEALAND

N.Z.	NI	TONARIRO(CEN)3158	WR	PUB	18.528	15.683	38.739	AND	A-C	71V
N.Z.	NI	PUKEKAIK(CEN)3155	WR	PUB	18.784	15.611	38.649	AND	A-C	71V
N.Z.	NI	TAMA LAK(CEN)3141	WR	PUB	18.682	15.518	38.382	AND	A-C	71V
N.Z.	NI	TAWHAI F(CEN)3152	WR	PUB	18.734	15.558	38.496	AND	A-C	71V
N.Z.	NI	RUAPEHU (CEN)3170	WR	PUB	18.837	15.648	38.787	AND	A-C	71V
N.Z.	NI	KARANGAH(CEN)3133	WR	PUB	18.759	15.635	38.66	BAS	A-C	71V
N.Z.	NI	ONGAROTO(CEN)3105	WR	PUB	18.793	15.625	38.68	BAS	A-C	71V
N.Z.	NI	K TRIG (CEN)P29205	WR	PUB	18.696	15.594	38.52	BAS	A-C	71V
N.Z.	NI	RANGITOT(CEN)5542	WR	PUB	18.977	15.596	38.709	BAS	A-C	71V
N.Z.	NI	PUPUKE (CEN)3310	WR	PUB	19.128	15.587	38.788	BAS	A-C	71V
N.Z.	NI	MC LENNA(CEN)3332	WR	PUB	19.155	15.588	38.786	BAS	A-C	71V
N.Z.	NI	PUPUKE (CEN)3040	WR	PUB	19.244	15.582	38.832	BAS	A-C	71V
N.Z.	NI	MAUNGATA(CEN)5516	WR	PUB	19.267	15.574	38.823	BAS	A-C	71V
N.Z.	NI	BOMBAY (CEN)3055	WR	PUB	19.166	15.546	38.718	BAS	A-C	71V
N.Z.	NI	TARANAKI(CEN)3023	WR	PUB	18.974	15.589	38.689	BAS	A-C	71V
N.Z.	NI	M. KARIOI(CEN)3031	WR	PUB	18.818	15.602	38.623	AND	A-C	71V
N.Z.	NI	MARUMAR.(CEN)3070	WR	PUB	18.819	15.605	38.643	AND	A-C	71V
N.Z.	NI	WHARIOR.(CEN)3016	WR	PUB	18.811	15.602	38.626	AND	A-C	71V
N.Z.	NI	COROMAN.(CEN)JC-32	WR	PUB	18.85	15.63	38.73	AND	C-R	69GJ
N.Z.	NI	COROMAN.(CEN)JC-33	WR	PUB	18.79	15.66	38.66	AND	C-R	69GJ
N.Z.	NI	COROMAN.(CEN)JC-34	WR	PUB	18.71	15.61	38.58	AND	C-R	69GJ
N.Z.	NI	COROMAN.(CEN)JC-35	WR	PUB	18.83	15.61	38.65	AND	C-R	69GJ
N.Z.	NI	COROMAN.(CEN)JC-36	WR	PUB	18.80	15.61	38.62	AND	C-R	69GJ
N.Z.	NI	TE AROHA(CEN)JC-37	WR	PUB	18.72	15.58	38.52	AND	C-R	69GJ
N.Z.	NI	TE AROHA(CEN)JC-38	WR	PUB	18.66	15.55	38.41	AND	C-R	69GJ
N.Z.	NI	TE AROHA(CEN)JC-39	WR	PUB	18.79	15.63	38.69	AND	C-R	69GJ

N.Z. NI TE AROHA (CEN) JC-40	WR PUB	18.51	15.61	38.42	AND C-R 69GJ
N.Z. NI COROMAN. (CEN) JC-41	WR PUB	18.81	15.65	38.72	RHY C-R 69GJ
N.Z. NI COROMAN. (CEN) JC-42	WR PUB	18.74	15.64	38.63	RHY C-R 69GJ
N.Z. NI COROMAN. (CEN) JC-43(A)	WR PUB	18.83	15.62	38.70	RHY C-R 69GJ

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IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV      VVV
IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV      VVV
IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV      VVV
  III           GGG           COO           000  VVV      VVV
  III           GGG           000           000  VVV      VVV
  III           GGG           COO           000  VVV      VVV
  III           GGG           000           000  VVV      VVV
  III           GGG           000           000  VVV      VVV
  III           GGG           000           000  VVV      VVV
  III           GGG           000           000  VVV      VVV
  III           GGG           COO           000  VVV      VVV
  III           GGG           COO           000  VVV      VVV
  III           GGG           GGGGGGG  COO           000  VVV      VVV
  III           GGG           GGGGGGG  COO           000  VVV      VVV
  III           GGG           GGGGGGG  COO           000  VVV      VVV
  III           GGG           GGG           COO           000  VVV      VVV
  III           GGG           GGG           COO           000  VVV      VVV
  III           GGG           GGG           COO           000  VVV      VVV
  III           GGG           GGG           COO           000  VVV      VVV
IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV
IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV
IIIIIIIII      GGGGGGGGGGGGG  000000000  VVV

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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204 TYPE REFER

ATLANTIC OCEAN BASIN

RIDGE THOLEIITES

AOB	MA	RIDGE TH(CEN)AD-3	WR	PBS-N	17.70	15.39	37.03	BAS	TATS66S
AOB	RE	REYKJANE(CEN)GLJ-10	WR	GEL-N	18.195	15.449	37.725	BAS	STS 75S
AOB	RE	REYKJANE(CEN)1-26D11D	WR	GEL-N	18.205	15.453	37.778	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-31D9	WR	GEL-N	18.217	15.447	37.794	BAS	STS 75S
AOB	RE	REYKJANE(CEN)41-19D	WR	GEL-N	18.259	15.443	37.820	BAS	STS 75S
AOB	RE	REYKJANE(CEN)41-20D3B	WR	GEL-N	18.283	15.471	37.880	BAS	STS 75S
AOB	RE	REYKJANE(CEN)41-20D3A	WR	GEL-N	18.288	15.463	37.821	BAS	STS 75S
AOB	RE	REYKJANE(CEN)GLJ-7	WR	GEL-N	18.289	15.445	37.778	BAS	STS 75S
AOB	RE	REYKJANE(CEN)D22	WR	GEL-N	18.30	15.48	37.88	BAS	D-S 74E
AOB	RE	REYKJANE(CEN)101-29D5	WR	GEL-N	18.349	15.466	37.926	BAS	STS 75S
AOB	MA	RIDGE TH(CEN)AD-2	WR	PBS-N	18.35	15.39	37.51	BAS	TATS66S
AOB	RE	REYKJANE(CEN)1-30D10A	WR	GEL-N	18.361	15.451	37.896	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-27D7	WR	GEL-N	18.460	15.453	37.998	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-24D0	WR	GEL-N	18.466	15.466	38.017	BAS	STS 75S
AOB	RE	REYKJANE(CEN)41-46D1	WR	GEL-N	18.475	15.476	38.038	BAS	STS 75S
AOB	RE	REYKJANE(CEN)01-22D1A	WR	GEL-N	18.516	15.486	38.104	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-34D6	WR	GEL-N	18.521	15.487	38.090	BAS	STS 75S
AOB	RE	REYKJANE(CEN)01-22D1B	WR	GEL-N	18.522	15.478	38.060	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-1D	WR	GEL-N	18.665	15.502	38.262	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-23D1	WR	GEL-N	18.674	15.479	38.229	BAS	STS 75S
AOB	RE	REYKJANE(CEN)101-11D	WR	GEL-N	18.680	15.495	38.284	BAS	STS 75S
AOB	MA	RIDGE TH(CEN)AD-5	WR	PBS-N	18.70	15.53	38.15	BAS	TATS66S

ISLAND VOLCANICS, RIDGES

CANARY ISLANDS

AOB	CA	LANZARAT(CEN)AD3-(3F)	WR	GEL-N	19.090	15.568	38.875	BAS	
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ICELAND

AOB	IC	ICELAND (CEN)I-169	WR	GEL-N	18.466	15.485	38.178	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-32	WR	GEL-N	18.473	15.474	38.198	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-38	WR	GEL-N	18.478	15.476	38.222	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)IC17	WR	GEL-N	18.629	15.488	38.207	BAS	STS 75S
AOB	IC	ICELAND (CEN)I-115	WR	GEL-N	18.640	15.501	38.294	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-103	WR	GEL-N	18.670	15.510	38.307	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-17	WR	GEL-N	18.751	15.503	38.337	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-92	WR	GEL-N	18.760	15.486	38.305	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)IC58	WR	GEL-N	18.777	15.502	38.387	BAS	STS 75S
AOB	IC	ICELAND (CEN)I-136A	WR	GEL-N	19.010	15.508	38.511	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)SN-1	WR	GEL-N	19.119	15.528	38.711	BAS	S-J 75NT
AOB	IC	ICELAND (CEN)I-48	WR	GEL-N	19.254	15.554	38.916	BAS	S-J 75NT

TRISTAN DE CUNHA

AOB	TC	TRISTAN (CEN)TR232-1	WR DSP	18.484	15.600	38.936	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR232-2	WR DSP	18.492	15.609	38.972	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR230	WR DSP	18.298	15.523	38.567	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR518	WR DSP	18.220	15.543	38.459	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR627	WR DSP	18.479	15.541	38.872	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR516-1	WR DSP	18.608	15.574	39.075	AND	O-G	70J
AOB	TC	TRISTAN (CEN)TR516-2	WR DSP	18.598	15.562	39.032	AND	O-G	70J

ST. HELENA

AOB	MA	HELENA (CEN)2878	WR DSP	20.711	15.832	40.217	BAS	O-G	70J
AOB	MA	HELENA (CEN)2882-1	WR DSP	20.828	15.857	40.173	BAS	O-G	70J
AOB	MA	HELENA (CEN)2882-2	WR DSP	20.870	15.834	40.252	BAS	O-G	70J
AOB	MA	HELENA (CEN)2892	WR DSP	20.851	15.876	40.380	BAS	O-G	70J
AOB	MA	HELENA (CEN)2894	WR DSP	20.334	15.650	39.445	BAS	O-G	70J
AOB	MA	HELENA (CEN)2924	WR DSP	20.475	15.602	39.572	PHO	O-G	70J
AOB	MA	HELENA (CEN)2933	WR DSP	20.659	15.708	39.787	PHO	O-G	70J
AOB	MA	HELENA (CEN)2935-1	WR DSP	20.724	15.701	39.848	PHO	O-G	70J
AOB	MA	HELENA (CEN)2935-2	WR DSP	20.671	15.654	39.736	PHO	O-G	70J

FAIAL

AOB	FA	FAIAL (CEN)MAF-I-1	WR DSP	19.240	15.663	39.130	BAS	OVER	71L
AOB	FA	FAIAL (CEN)MAF-I-2	WR DSP	19.248	15.677	39.147	BAS	OVER	71L
AOB	FA	FAIAL (CEN)MAF-III1	WR DSP	19.219	15.621	38.963	BAS	OVER	71L
AOB	FA	FAIAL (CEN)MAF-III2	WR DSP	19.235	15.653	39.006	BAS	OVER	71L
AOB	FA	FAIAL (CEN)MAF-IV	WR DSP	19.244	15.649	39.110	BAS	OVER	71L

TRINDADE

AOB	TR	TRINDADE(CEN)UCTD3	WR DSP	19.155	15.561	39.077	PHO	OVER	71L
AOB	TR	TRINDADE(CEN)UCTD6	WR DSP	19.188	15.575	39.130	PHO	OVER	71L
AOB	TR	TRINDADE(CEN)UCTD18	WR DSP	19.085	15.561	39.008	PHO	OVER	71L
AOB	TR	TRINDADE(CEN)UCTD12	WR DSP	18.966	15.546	38.702	BAS	OVER	71L
AOB	TR	TRINDADE(CEN)UCTD5	WR DSP	18.950	15.554	38.809	BAS	OVER	71L

ASCENSION(.45%/MASS UNIT FRACTIONATION CORRECTION)

AOB	MA	ASCENSIO(CEN)2765	WR P3S-N	19.26	15.46	38.51	BAS	GAST	69L
AOB	MA	ASCENSIO(CEN)2740	WR P3S-N	19.38	15.47	38.35	BAS	GAST	69L
AOB	MA	ASCENSIO(CEN)2700	WR P3S-N	19.53	15.48	38.74	TRA	GAST	69L
AOB	MA	ASCENSIO(CEN)2716	WR P3S-N	19.54	15.50	38.74	TRA	GAST	69L
AOB	MA	ASCENSIO(CEN)2775	WR P3S-N	19.34	15.44	38.53	OBS	GAST	69L
AOB	MA	ASCENSIO(CEN)2776	WR P3S-N	19.60	15.50	38.72	TRA	GAST	69L
AOB	MA	ASCENSIO(CEN)2809	WR P3S-N	19.41	15.49	38.68	INC	GAST	69L

GOUGH ISLAND(.45%/MASS UNIT FRACTIONATION CORRECTION)

AOB	MA	GOUGH IS(CEN)G132	WR P3S-N	18.21	15.47	38.29	BAS	GTH	64S
AOB	MA	GOUGH IS(CEN)G95	WR P3S-N	18.27	15.53	38.56	BAS	GTH	64S
AOB	MA	GOUGH IS(CEN)G15	WR P3S-N	18.39	15.48	38.46	BAS	GTH	64S
AOB	MA	GOUGH IS(CEN)G-19D	WR P3S-N	18.46	15.59	38.99	TRA	GTH	64S
AOB	MA	GOUGH IS(CEN)G-3	WR P3S-N	18.55	15.49	38.79	TRA	GTH	64S

AOB		DSDPL37 (CEN)332A8/1	WR GEL-N	18.859	15.591	38.522	BAS	CUMM	76E
AOB		DSDPL37 (CEN)332A21/1	WR GEL-N	18.897	15.636	38.733	BAS	CUMM	76E
AOB		DSDPL37 (CEN)332A28/1	WR GEL-N	18.736	15.596	38.445	BAS	CUMM	76E
AOB		DSDPL37 (CEN)332A29/1	WR GEL-N	18.722	15.564	38.457	BAS	CUMM	76E

AOB	/	/	DSDPL37 (CEN)332A40/A	WR	GEL-N	19.037	15.634	38.690	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)332A40/B	WR	GEL-N	18.829	15.639	38.570	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)332B21/1	WR	GEL-N	18.725	15.624	38.467	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)332B35/2	WR	GEL-N	18.028	15.503	37.902	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)332B47/A	WR	GEL-N	17.799	15.559	37.684	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)332B47/B	WR	GEL-N	17.815	15.602	37.835	BAS	CUMM76E
AOB	/	/	DSDPL37 (CEN)335-10/6	WR	GEL-N	18.090	15.593	37.962	BAS	CUMM76E

PACIFIC OCEAN BASIN

RIDGE THOLEIITES

GORDA RISE

POB	/GR	/	GORDA R.(CEN)1154	WR	GEL-N	18.274	15.445	37.625	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)4Z	WR	DSP	18.346	15.475	37.812	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)11A	WR	GEL-N	18.362	15.434	37.732	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)13A	WR	GEL-N	18.380	15.465	37.795	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)13E	WR	GEL-N	18.408	15.488	37.903	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)K0-9	WR	DSP	18.410	15.481	37.859	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)5A	WR	DSP	18.570	15.511	37.929	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)7T	WR	GEL-N	18.621	15.490	38.016	BAS	C-T 7600
POB	/GR	/	GORDA R.(CEN)7F	WR	DSP	18.649	15.486	38.037	BAS	C-T 7600

JUAN DE FUCA RISE

JUAN DE FUCA RISE

POB	/JF	/	EXPLORER(CEN)C10-D3	WR	DSP	18.447	15.480	37.859	BAS	C-T 7600
POB	/JF	/	DE FUCA (CEN)3A	WR	DSP	18.339	15.462	37.714	BAS	C-T 7600
POB	/JF	/	DE FUCA (CEN)3E	WR	DSP	18.347	15.445	37.742	BAS	C-T 7600
POB	/JF	/	DE FUCA (CEN)1A	WR	DSP	18.518	15.492	37.693	BAS	C-T 7600

EAST PACIFIC RISE

POB	/ER	/	RIDGE TH(CEN)AMPH-3M	WR	GEL-N	18.15	15.49	37.87	BAS	-S 74E
POB	/ER	/	RIDGE TH(CEN)PD-1	WR	PBS-N	18.07	15.39	37.44	BAS	TATS66S
POB	/ER	/	RIDGE TH(CEN)PD-3	WR	PBS-N	18.12	15.38	37.53	BAS	TATS66S
POB	/ER	/	RIDGE TH(CEN)PD-4	WR	PBS-N	18.38	15.45	37.84	BAS	TATS66S

NAZCA PLATE

THOLEIITE (RELATED TO GALAPAGOS RISE ?)

POB	/NZ	/	NAZCA PL(CEN)S319C13S	WR	GEL-N	18.540	15.525	38.064	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S319AC1S	WR	GEL-N	18.517	15.541	38.110	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S319AC2S	WR	GEL-N	18.540	15.550	38.114	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S319AC3S	WR	GEL-N	18.584	15.500	38.038	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S319AC5S	WR	GEL-N	18.593	15.496	38.035	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S319AC6S	WR	GEL-N	18.587	15.510	38.065	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S321C14S	WR	GEL-N	18.558	15.502	38.077	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S321C14S	WR	GEL-N	18.616	15.530	38.157	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S321C14S	WR	GEL-N	18.786	15.525	38.496	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S321C14S	WR	GEL-N	18.771	15.528	38.209	BAS	U-T 75D
POB	/NZ	/	NAZCA PL(CEN)S321C14S	WR	GEL-N	18.720	15.534	38.216	BAS	U-T 75D

OTHERS

MARSHALL ISLANDS DRILLING

POB	MA	RIDGE TH(M-C)	169-6-4	WR	PJB	19.515	15.674	39.271	DIA	BAS	73D
POB	MA	RIDGE TH(MES)	169-6-4	WR	PUB	19.46	15.67	39.21	DIA	BAS	73D
POB	MA	RIDGE TH(M-C)	169-12-1	WR	PUB	18.532	15.547	38.375	BAS	BAS	73D
POB	MA	RIDGE TH(CRE)	169-12-1	WR	PUB	18.40	15.54	38.23	BAS	BAS	73D
POB	MA	RIDGE TH(CRE)	170-10-C	WR	PJB	19.888	15.580	39.454	MUG	BAS	73D
		INITIAL FOR 65MY AGE									
POB	MA	RIDGE TH(CRE)	170-10-C	WR	PUB-C	19.56	15.56	39.07	MUG	BAS	73D
		INITIAL FOR 95MY AGE									
POB	MA	RIDGE TH(CRE)	170-10-C	WR	PUB-C	19.36	15.56	38.69	MUG	BAS	73D

INTRAPLATE VOLCANICS

HAWAIIAN ISLANDS

U.S.	HA	HAWAII	(CEN)PAT	WR	PJB	18.00	15.50	37.86	TRA	PAT	64IC
U.S.	HA	HAWAII	(CEN)PAT	PL	PJB	18.05	15.51	37.86	BAS	PAT	64IC
U.S.	HA	HAWAII	(CEN)HMC-2/7	WR	PBS-N	18.06	15.54	37.75	MEL	TATS66J	
U.S.	HA	HAWAII	(CEN)HMC-5	WR	PBS-N	17.82	15.36	37.36	BAS	TATS66J	
U.S.	HA	HAWAII	(CEN)PAT	WR	PJB	18.03	15.56	38.01	BAS	PAT	64IC
U.S.	HA	HAWAII	(CEN)HMC-4	WR	PBS-N	18.35	15.48	37.90	HAW	TATS66J	
U.S.	HA	HAWAII	(CEN)HMC-8	WR	PBS-N	18.34	15.43	37.80	ANK	TATS66J	
U.S.	HA	HAWAII	(CEN)HMC-3	WR	PBS-N	17.96	15.34	37.72	TRA	TATS66J	
U.S.	HA	HAWAII	(CEN)HMC-6	WR	PBS-N	18.38	15.53	37.88	TRA	TATS66J	
U.S.	HA	KAUAI	(CEN)ANU(2)	WR	PJB	18.05	15.58	38.05	BAS	C-R	66L
U.S.	HA	KAUAI	(CEN)ANU	WR	PJB	18.19	15.56	38.06	BAS	C-R	66L
U.S.	HA	KAUAI	(CEN)ANU	WR	PUB	18.36	15.66	38.54	NEP	C-R	66L
U.S.	HA	KAUAI	(CEN)ANU	WR	PUB	18.43	15.68	38.55	HAW	C-R	66L
U.S.	HA	MAUI	(CEN)ANU(3)	WR	PUB	18.44	15.62	38.30	BAS	C-R	66L
U.S.	HA	MAUI	(CEN)ANU(2)	WR	PUB	18.60	15.69	38.65	MUG	C-R	66L
U.S.	HA	MOLOKAI	(CEN)ANU	WR	PJB	18.00	15.54	37.94	BAS	C-R	66L
U.S.	HA	MOLOKAI	(CEN)ANU	WR	PUB	18.35	15.53	38.01	BAS	C-R	66L
U.S.	HA	MOLOKAI	(CEN)ANU	WR	PUB	18.39	15.51	38.06	MUG	C-R	66L
U.S.	HA	OAHU	(CEN)ANU	WR	PUB	17.98	15.57	37.95	BAS	C-R	66L
U.S.	HA	OAHU	(CEN)ANU	WR	PUB	18.14	15.55	37.98	BAS	C-R	66L
U.S.	HA	OAHU	(CEN)ANU	WR	PUB	18.21	15.65	38.35	HAW	C-R	66L
U.S.	HA	OAHU	(CEN)ANU	WR	PUB	18.03	15.48	37.78	BAS	C-R	66L
U.S.	HA	OAHU	(CEN)HMC-1	WR	PBS-N	17.97	15.43	37.74	BAS	TATS66J	
U.S.	HA	OAHU	(CEN)PAT	WR	PUB	17.87	15.53	37.90	RDC	PAT	64IC
U.S.	HA	OAHU	(CEN)HON.SE.	WR	GEL-N	18.20	15.50	37.91	BAS	Z-T	73L

SEA MOUNTS

POB	NW	COBB SEA	(CEN)C-1	WR	GEL-N	18.809	15.479	38.17	BAS	C-T	7600
POB	NW	COBB SEA	(CEN)C-2	WR	GEL-N	18.377	15.475	37.94	BAS	C-T	7600
POB	NW	COBB SEA	(CEN)C-3	WR	GEL-N	18.423	15.480	37.96	BAS	C-T	7600
POB	NW	DELL. SEA	(CEN)D-1	WR	GEL-N	18.957	15.541	38.33	BAS	C-T	7600
POB	NW	DELL. SEA	(CEN)D-2	WR	GEL-N	19.095	15.560	38.34	BAS	C-T	7600
POB	NW	DELL. SEA	(CEN)D-3	WR	GEL-N	18.502	15.505	37.93	BAS	C-T	7600

POB /NW/EXPLOR.S(CEN)E-1	WR GEL-N	18.393	15.469	37.84	BAS C-T 7600
POB /NW/EXPLOR.S(CEN)E-2	WR GEL-N	18.400	15.465	37.83	BAS C-T 7600
POB /NW/EXPLOR.S(CEN)E-3	WR GEL-N	18.580	15.505	38.07	BAS C-T 7600
POB /NW/EXPLOR.S(CEN)E-4	WR GEL-N	18.401	15.476	37.83	BAS C-T 7600
POB /NW/EXPLOR.S(CEN)E-5	WR GEL-N	18.688	15.508	38.09	BAS C-T 7600
POB /NW/HECK SEA(CEN)H-1	WR GEL-N	18.295	15.495	37.66	BAS C-T 7600
POB /NW/HECK SEA(CEN)H-2	WR GEL-N	18.330	15.494	37.75	BAS C-T 7600
POB /NW/HODG.BAN(CEN)B-1	WR GEL-N	18.403	15.449	37.76	BAS C-T 7600
POB /NW/HODG.BAN(CEN)B-2	WR GEL-N	18.300	15.435	37.77	BAS C-T 7600
POB /NW/UNION (CEN)U-1	WR GEL-N	19.434	15.592	38.69	BAS C-T 7600
POB /NW/PARKS (CEN)P-227	WR GEL-N	18.297	15.447	37.70	BAS C-T 7600
POB /NW/LEG 18 (CEN)7B-1	WR GEL-N	18.876	15.534	38.29	BAS C-T 7600
POB /NW/LEG 18 (CEN)7B-13	WR GEL-N	18.889	15.528	38.32	BAS C-T 7600
POB /NW/LEG 18 (CEN)7B-12	WR GEL-N	18.921	15.533	38.32	BAS C-T 7600

ISLAND VOLCANICS, RIDGES

POB /EA/EASTER I(CEN)PV-650	WR PBS-N	19.18	15.51	38.64	OBS TATS66S
POB /EA/EASTER I(CEN)PV-652	WR PBS-N	19.12	15.43	38.43	INT TATS66S
POB /EA/EASTER I(CEN)PV-653	WR PBS-N	19.17	15.58	38.95	BAS TATS66S
POB /EA/EASTER I(CEN)PV-651	WR PBS-N	19.15	15.52	38.65	BAS TATS66S
POB /GU/GUADALUP(CEN)GU-77	WR PBS-N	20.30	15.59	40.25	BAS TATS66S
POB /GU/GUADALUP(CEN)GU-52	WR PBS-N	20.15	15.58	40.02	BAS TATS66S
POB /GU/GUADALUP(CEN)GU-22	WR PBS-N	20.04	15.61	39.96	BAS TATS66S
POB /GU/GUADALUP(CEN)GU44	WR PBS-N	20.05	15.52	39.78	BAS TATS66S

INDIAN OCEAN BASIN

IOB / /RIDGE TH(CEN)10-33	WR GEL-N	17.55	15.47	37.42	BAS D-S 74E
IOB / /RIDGE TH(CEN)10-35	WR GEL-N	18.21	15.57	38.22	BAS D-S 74E
IOB / /REUNION (CEN)ANU(2)	WR PJB	18.53	15.69	38.77	BAS C-R 66L

RED SEA BASIN

RIDGE THOLEIITES

N.A.F.RS/RED SEA (CEN)226	WR GEL-N	18.672	15.543	38.307	BAS D-D 74D
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IIIIIIII	GGGGGGGGGG	UUU	UUU	MMM	MMM
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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/204	207/204	208/204	TYPE	REFER
ATLANTIC OCEAN BASIN								
CANARY ISLANDS								
AOB /CI/ LANZAROT (CEN)		HARZBURG	WR GEL-N	18.90	15.56	38.84	PER Z-T	73L
AOB /CI/ LANZAROT (CEN)		HARZBURG	RW GEL-N	18.90	15.56	38.86	PER Z-T	73L
AOB /CI/ LANZAROT (CEN)		HARZBURG	WL GEL-N	18.88	15.60	38.71	PER Z-T	73L
PACIFIC OCEAN BASIN								
HAWAIIAN ISLANDS								
U.S. /HI/ OAHU/ HON (CEN)		LHERZOL.	WR GEL-N	18.23	15.52	38.03	PER Z-T	73L
U.S. /HI/ OAHU/ HON (CEN)		LHERZOL.	RW GEL-N	18.23	15.52	38.06	PER Z-T	73L
U.S. /HI/ OAHU/ HON (CEN)		LHERZOL.	WL GEL-N	18.22	15.53	37.96	PER Z-T	73L
NORTH AMERICA								
ALASKA								
U.S. /AK/ NUM. IS. (CEN)		LHERZOL.	WR GEL-N	18.50	15.57	38.48	PER Z-T	73L
U.S. /AK/ NUM. IS. (CEN)		LHERZOL.	RW GEL-N	18.50	15.57	38.50	PER Z-T	73L
U.S. /AK/ NUM. IS. (CEN)		LHERZOL.	WL GEL-N	18.39	15.56	37.93	PER Z-T	73L
ARIZONA								
U.S. /AZ/ SAN CARL (CEN)		LHERZOL.	WR GEL-N	18.52	15.61	38.40	PER Z-T	73L
U.S. /AZ/ SAN CARL (CEN)		LHERZOL.	RW GEL-N	18.51	15.61	38.50	PER Z-T	73L
U.S. /AZ/ SAN CARL (CEN)		LHERZOL.	WL GEL-N	18.54	15.60	38.24	PER Z-T	73L
U.S. /AZ/ SAN CARL (CEN)		LHERZOL.	EN GEL-N	18.56	15.63	38.21	PER Z-T	73L
U.S. /AZ/ SAN CARL (CEN)		LHERZOL.	DI GEL-N	18.56	15.61	38.24	PER Z-T	73L
NEW MEXICO								
U.S. /NM/ POTRIL. (CEN)		LHERZOL.	WR GEL-N	18.31	15.56	38.41	PER Z-T	73L
U.S. /NM/ POTRIL. (CEN)		LHERZOL.	RW GEL-N	18.37	15.56	38.53	PER Z-T	73L
U.S. /NM/ POTRIL. (CEN)		LHERZOL.	WL GEL-N	18.01	15.55	37.80	PER Z-T	73L
OTHER AREAS								
SOUTH AFRICA								
S. AF/ OF/ ROBERTS (PHA)	64 (MELT)		RW P3V-N	14.72	14.78	34.86	ECL M-T	71L
S. AF/ OF/ ROBERTS (PHA)	71 (MELT)		RW P3V-N	15.26	14.82	34.90	ECL M-T	71L
S. AF/ OF/ ROBERTS (PHA)	R17 (96%)		KV P3V-N	17.18	15.48	37.76	KIM M-T	71L
S. AF/ OF/ ROBERTS (PHA)	22		WR P3S-N	17.33	15.46	37.83	ECL M-T	71L
S. AF/ OF/ ROBERTS (PHA)	R7		WR P3S-N	17.54	15.39	38.09	ECL M-T	71L

S.AF,OF,ROBERTS (PHA)14	WR P3S-N	18.40	15.46	37.83	ECL M-T 71L
S.AF,OF,ROBERTS (PHA)R81(84%)	RV P3V-N	18.74	15.61	38.88	PER M-T 71L

AFRICA, EQUATORIAL

UGANDA

UGAN,E.,TORO HIL(CEN)P37	WR GEL-R	20.77	15.79	39.36	CAR L-A 74L
UGAN,E.,LIME KIL(CEN)P38	WR GEL-N	20.56	15.74	40.18	CAR L-A 74L
UGAN,E.,LOKUPOI (CEN)P39	WR GEL-R	20.85	15.77	40.37	CAR L-A 74L
UGAN,E.,BUSUMBU (CEN)P40	WR GEL-R	19.80	15.68	39.51	CAR L-A 74L
UGAN,E.,SUKULU H(CEN)P41	WR GEL-R	20.07	15.70	39.62	CAR L-A 74L

AFRICA, NORTHERN

MOROCCO

MORO,OF,TAMAZERT(CEN)P27	WR GEL-R	18.57	15.59	38.58	CAR L-A 74L
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ATLANTIC OCEAN BASIN

CANARY ARCHIPELAGO

AOB ,CI,FUERT.I.(CEN)P58	WR GEL-R	18.71	15.51	38.22	CAR L-A 74L
AOB ,CI,FUERT.I.(CEN)P62	WR GEL-R	19.69	15.57	38.48	CAR L-A 74L

CAPE VERDE ARCHIPELAGO

AOB ,CV,BRAVA I.(CEN)P50	WR GEL-R	19.01	15.82	33.06	CAR L-A 74L
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IIIIIIIIII      GGGGGGGGGGGG      WWW      WWW      RRRRRRRRRRRR
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   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          WWW      WWW      RRR          RRR
   III          GGG          GGGGGG      WWW      WWW      WWW      RRR          RRR
   III          GGG          GGGGGG      WWW      WWW      WWW      RRR          RRR
   III          GGG          GGGGGG      WWW      WWW      WWW      RRR          RRR
   III          GGG          GGG          WWWWWW      WWWWWW      RRR          RRR
   III          GGG          GGG          WWWWWW      WWWWWW      RRR          RRR
   III          GGG          GGG          WWWWWW      WWWWWW      RRR          RRR
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IIIIIIIIII      GGGGGGGGGGGG      WWW      WWW      RRR          RRR

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IGNEOUS, MESOZOIC-CENOZOIC, WHOLE ROCKS(IGWR.GRA)

(3 MARCH 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/206 208/204TYPE REFER.

NORTH AMERICA

UNITED STATES

CALIFORNIA

KLAMATH MOUNTAINS

U.S.,CA,KLAMATH (MES)T-1645 WR GEL-N 18.617 15.514 38.438 TRN D-D 736a

SIERRA NEVADA BATHOLITH

U.S.,CA,SIERRA N(MES)ST-1#11 WR GEL-N 18.799 15.612 38.444 TRN D-D 736b

SOUTHERN CALIFORNIA BATHOLITH

U.S.,CA,S.CAL.BA(MES)RUBIDOUX WR PUB 19.44 15.61 39.48 GRA PSMC56G

U.S.,CA,S.CAL.BA(MES)SAN MAR. WR PUB 18.72 15.51 38.10 GAB PSMC56G

U.S.,CA,S.CAL.BA(MES)WOODSON. WR PUB 18.87 15.58 38.55 GRA PSMC56G

U.S.,CA,S.CAL.BA(MES)BONSALL WR PUB 18.93 15.56 38.48 Q-D PSMC56G

MONTANA

BOULDER BATHOLITH

U.S.,MT,BOULDER (MES)3T273- WR PUB 18.24 15.63 38.50 GRA DTHK68E


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MMM      MMM      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTTT      CCCCCCCCC
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MMM      MMM      EEEEEEEEEEEEEEE      TTTTTTTTTTTTTTT      CCCCCCCCC
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06/09/77 1401.7 mdt Thu
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METAMORPHIC ROCKS, MESOZOIC-CENOZOIC, CONTINENTAL(METC.GRA)(3 MARCH 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

UNITED STATES

CALIFORNIA

U.S.	CA	FRANCIS.(MES)	PF-F-7G	WR	PUB	18.53	15.51	38.41	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	N-SLO-5G	WR	PUB	18.44	15.52	38.06	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	SB-M-3GG	WR	PUB	19.33	15.84	39.48	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	NA-SC-2G	WR	PUB	19.08	15.72	38.97	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	PP-SBE-1	WR	PUB	18.48	15.56	38.04	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	BR-SB21	WR	PUB	18.40	15.44	38.08	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	RR-S-1BS	WR	PUB	18.65	15.66	39.50	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	H-SBE-3	WR	PUB	18.63	15.68	38.14	SED	S-D	71Y
U.S.	CA	FRANCIS.(MES)	PF-M-6BS	WR	PUB	18.73	15.67	38.89	SED	S-D	71Y

WASHINGTON

U.S.	WA	PRE TERT(MES)	JM68-4	WR	P3S-N	18.83	15.60	38.55	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM68-10	WR	GEL-N	18.65	15.59	38.35	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM68-11	WR	GEL-N	18.83	15.49	38.32	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C514-1	WR	GEL-N	18.88	15.60	38.43	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C845-1	WR	P3S-N	18.88	15.58	38.37	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C010-1	WR	P3S-N	18.88	15.66	38.65	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C340-3	WR	P3S-N	18.80	15.59	38.41	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM68-8	WR	GEL-N	19.68	15.66	39.28	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C883-2	WR	P3S-N	19.19	15.63	38.86	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	C012-1	WR	P3S-N	19.45	15.60	39.10	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM69-10	WR	GEL-N	18.92	15.61	38.63	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM69-12	WR	GEL-N	18.82	15.61	38.35	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM69-9	WR	GEL-N	21.72	15.70	40.19	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM69-7	WR	GEL-N	18.60	15.58	38.49	GN	C-T	73Gb
U.S.	WA	PRE TERT(MES)	JM68-16	WR	GEL-N	18.87	15.56	38.49	GN	C-T	73Gb

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MMM          MMM  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPP
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IGNEOUS/METAMORPHIC ROCKS, PRECAMBRIAN-PALEOZOIC (METP.GRA) (12 JULY 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFERENCE

3800M.Y.

GREENLAND
3800M.Y.

ISUA IRON

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/204	207/204	208/204	TYPE	REFERENCE
GRNL,IS,ISUA	IF (U)	15578	WR PUB	13.83	14.33	33.62	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155781	MT PUB	12.93	14.03	32.67	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155781	SI PUB	12.94	14.04	33.00	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155781	SI PUB	12.76	13.97	32.72	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155782	WR PJB	12.93	14.04	32.83	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155783	WR PUB	12.08	13.73	32.15	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155784	WR PJB	12.36	13.78	32.26	IF MOP	73NT
GRNL,IS,ISUA	IF (U)	155789	WR PUB	12.16	13.75	32.07	IF MOP	73NT

GODTHAAB AREA (AMITSOQ GNEISS)

(ROCK FORMATION APPARENTLY AT 3.8B.Y. WITH METAMORPHISM AT 2.1B.Y.)

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/204	207/204	208/204	TYPE	REFERENCE
GRNL,GO,GODTHAAB	(U)	110869	WR PUB	13.89	13.52	31.39	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	110869	WR PUB	13.84	13.49	31.40	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	110999	WR PJB	11.73	13.16	31.34	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	155817	WR PUB	12.37	13.37	31.79	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	155818	WR PUB	11.91	13.23	31.52	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	155819	WR PUB	12.31	13.44	32.03	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	155820	WR PJB	11.81	13.22	31.82	GGN BLK	76A
GRNL,GO,GODTHAAB	(U)	125519	WR PUB	11.51	13.14	31.38	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	125540	WR PJB	11.67	13.18	31.53	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110869	WR PUB-V	11.73	13.23	31.32	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110822	WR PUB-V	11.81	13.31	33.02	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110999	WR PUB-V	11.83	13.29	31.53	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	125523	WR PUB-V	11.83	13.23	31.64	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	125522	WR PJB-V	11.89	13.30	32.04	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110870	WR PUB-V	11.95	13.34	31.67	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	86431	WR PJB-V	11.96	13.29	32.32	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	86597	WR PUB	12.22	13.42	31.80	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110969	WR PUB	12.45	13.36	31.52	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	86596	WR PUB	12.58	13.51	32.10	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	86439	WR PJB-V	13.07	13.69	38.02	GGN BGM	-71L
GRNL,GO,GODTHAAB	(U)	110848	WR PUB-V	15.51	14.40	34.11	GNG BGM	-71L
GRNL,GO,GODTHAAB	(X?)	110927	WR PUB-V	12.59	13.71	32.94	GGN BGM	-71L
GRNL,GO,GODTHAAB	(X?)	125526	WR PUB-V	12.61	13.68	33.96	GN BGM	-71L
GRNL,GO,GODTHAAB	(X?)	110819	WR PUB-V	12.71	13.71	34.23	GGN BGM	-71L
GRNL,GO,GODTHAAB	(X?)	110823	WR PUB	13.77	13.82	32.93	GN BGM	-71L
GRNL,GO,GODTHAAB	(X?)	86434	WR PUB-V	15.48	14.10	33.01	GGN BGM	-71L
GRNL,GO,GODTHAAB	(X?)	125541	WR PJB-V	15.63	14.04	32.65	GNG BGM	-71L

>3000 M.Y.

CANADA

>3000 M.Y.

MANITOBA

CAN. MA	(V)29	WR DSP	15.654	15.516	35.773	Q-D	O-R	71CJ
CAN. MA	(V)47	WR DSP	15.256	14.919	34.816	Q-D	O-R	71CJ
CAN. MA	(V)78	WR DSP	16.048	14.987	34.883	GRA	O-R	71CJ
CAN. MA	(V)207	WR DSP	16.639	15.146	38.537	GRA	O-R	71CJ
CAN. MA	(V)214	WR DSP	16.800	15.221	36.875	GRA	O-R	71CJ

ONTARIO

CAN. ON	(V)G1	WR DSP	23.355	16.515	40.679	GRA	O-R	71CJ
CAN. ON	(V)G2	WR DSP	27.352	17.081	39.690	GRA	O-R	71CJ
CAN. ON	(V)G3	WR DSP	19.730	15.812	38.998	GRA	O-R	71CJ
CAN. ON	(V)CSCH	WR DSP	21.581	16.260	36.576	PEG	O-R	71CJ
CAN. ON	(V)G5	WR DSP	14.754	15.009	34.824	GRA	O-R	71CJ

UNITED STATES

>3000 M.Y.

MINNESOTA

MONTEVIDEO GNEISS, RED MASSIVE PHASE

U.S. MN	MONTEVID	(W)54-69RM	WR GEL-N	15.488	15.590	35.455	GGN	
U.S. MN	MONTEVID	(W)431-73	WR GEL-N	19.555	16.455	34.943	GGN	

MONTEVIDEO GNEISS, FOLIATED PHASE

U.S. MN	MONTEVID	(V)606WZ	WR GEL-N	15.483	15.528	40.002	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)54-69BH2	WR GEL-N	15.849	15.698	36.491	GGN	
U.S. MN	MONTEVID	(V)54-69A	WR GEL-N	15.862	15.693	39.455	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)605WZ	WR GEL-N	15.954	15.686	39.717	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)54-69BF1	WR GEL-N	16.227	15.753	41.035	GGN	
U.S. MN	MONTEVID	(V)605WZ	WL GEL-N	17.40	16.00	49.16	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)209FGLM	WR GEL-N	17.602	15.930	35.549	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)607BC	WR GEL-N	19.257	16.938	46.567	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)607BC	WR GEL-N	19.370	16.916	47.658	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)609IJ	WR GEL-N	20.344	16.818	36.577	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)209FGLM	WR GEL-N	40.095	19.360	43.671	GGN	GDD 75U0
U.S. MN	MONTEVID	(V)609IJ	WL GEL-N	43.436	19.857	44.064	GGN	GDD 75U0

SOUTH AFRICA

VREDEFORT DOME

S. AF	VREDEFO.	(V)KK5	WR GEL-N	13.45	14.38	37.16	GGN	
S. AF	VREDEFO.	(V)KK6	WR GEL-N	13.64	14.36	35.71	GGN	
S. AF	VREDEFO.	(V)KK7	WR GEL-N	15.53	14.85	40.13	GGN	
S. AF	VREDEFO.	(V)KK8	WR GEL-N	16.79	15.29	38.75	GGN	
S. AF	VREDEFO.	(V)VT38	WR GEL-N	26.92	17.60	64.44	GGN	

S.AF	VREDEFO.(V)VT34	WR GEL-N	36.99	19.69	37.19	GGN
S.AF	VREDEFO.(V)VT40	WR GEL-N	46.96	21.73	47.22	GGN

SOVIET UNION
2700-3000M.Y.

TAROMSKOE QUARRY

SOV.	UK	TAROMSK.(W)K105	WR PUB	14.82	15.01	34.00	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K103	WR PUB	15.66	15.18	36.22	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K117	WR PUB	15.80	15.30	37.00	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K102	WR PUB	16.60	15.20	36.60	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K95	WR PUB	17.20	15.50	37.70	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K106	WR PUB	17.70	15.65	38.30	GRA SGL 63RA
SOV.	UK	TAROMSK.(W)K107	WR PUB	21.00	16.35	41.50	GRA SGL 63RA

IAMBURG QUARRY

SOV.	UK	IAMBURG (W)K170	WR PUB	15.38	15.16	36.12	GRA SGL 63RA
SOV.	UK	IAMBURG (W)K168	WR PUB	15.45	15.15	36.66	GRA SGL 63RA
SOV.	UK	IAMBURG (W)K171	WR PUB	17.63	15.47	37.91	GRA SGL 63RA
SOV.	UK	IAMBURG (W)K177A	WR PUB	18.23	15.67	38.52	GRA SGL 63RA

LOTSMANSKAIA KAMENKA QUARRY

SOV.	UK	LOTSMAN.(W)K193-LI	WR PUB	14.87	14.98	34.98	PEG SGL 63RA
SOV.	UK	LOTSMAN.(W)K188	WR PUB	16.52	15.50	36.86	GRA SGL 63RA
SOV.	UK	LOTSMAN.(W)K214	WR PUB	23.12	17.06	42.48	PEG SGL 63RA
SOV.	UK	LOTSMAN.(W)K193-HE	WR PUB	29.14	17.95	50.04	GRA SGL 63RA

UNITED STATES
>2950 M.Y.

WYOMING

U.S.	WY	GRANITE (W)GM35-68	WR PUB	15.02	15.19	37.62	PGN NK-R72UP
U.S.	WY	GRANITE (W)GM76-68	WR PUB	15.59	15.31	43.53	PGN NK-R72UP
U.S.	WY	GRANITE (W)GM38-68	WR PUB	16.36	15.65	42.99	PGN NK-R72UP
U.S.	WY	GRANITE (W)W2-CR5	WR PUB	16.32	15.59	40.26	PGN NK-R72UP
U.S.	WY	GRANITE (W)GM77-68	WR PUB	18.61	16.04	47.18	PGN NK-R72UP
U.S.	WY	GRANITE (W)GM78-68	WR PUB	35.54	19.24	44.31	PGN NK-R72UP
U.S.	WY	GRANITE (W)GM98-68	WR PUB	31.28	18.65	47.45	GGN NK-R72UP
*		SURFACE SAMPLE					
U.S.	WY	GRANITE (W)W2-CR-1	WR PUB	56.47	23.53	54.81	GRA NK-R72UP
*		CORE SAMPLE					
U.S.	WY	GRANITE (W)W2-CR-1	WR PUB	70.27	24.60	65.32	GRA NK-R72UP

2800 M.Y.

AUSTRALIA

2800 M.Y.

KALGOORLIE-NORSEMAN AREA

EDJUDINA

AUST	WA	KALGOORL(W)72-859	WR DSP	18.120	15.562	36.510	GRA OVER75A
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KAMBALDA

AUST,WA,KALGOORL(W)71-1079	WR DSP	15.568	15.141	34.954	GRA OVER75A
AUST,WA,KALGOORL(W)71-1084	WR DSP	15.679	15.178	34.904	GRA OVER75A
AUST,WA,KALGOORL(W)71-1081A	WR DSP	16.032	15.247	35.301	GRA OVER75A
AUST,WA,KALGOORL(W)71-1081B	WR DSP	16.035	15.218	35.315	GRA OVER75A
AUST,WA,KALGOORL(W)71-1083	WR DSP	16.172	15.293	35.388	GRA OVER75A

KARONIE

AUST,WA,KALGOORL(W)71-745A	WR DSP	19.785	15.888	37.366	GRA OVER75A
AUST,WA,KALGOORL(W)71-745B	WR DSP	19.788	15.896	37.438	GRA OVER75A
AUST,WA,KALGOORL(W)71-743A	WR DSP	20.269	15.878	37.449	GRA OVER75A
AUST,WA,KALGOORL(W)71-743B	WR DSP	20.391	15.827	37.552	GRA OVER75A
AUST,WA,KALGOORL(W)71-744A	WR DSP	20.941	16.142	37.972	GRA OVER75A
AUST,WA,KALGOORL(W)71-744B	WR DSP	20.953	16.128	37.896	GRA OVER75A
AUST,WA,KALGOORL(W)71-742A	WR DSP	23.194	16.458	39.198	GRA OVER75A
AUST,WA,KALGOORL(W)71-742B	WR DSP	23.154	16.404	38.971	GRA OVER75A

KARRAMINDI SOAK

AUST,WA,KALGOORL(W)71-736A	WR DSP	23.016	16.501	41.110	GRA OVER75A
AUST,WA,KALGOORL(W)71-736B	WR DSP	23.052	16.527	41.181	GRA OVER75A

LAKE JOHNSON

AUST,WA,KALGOORL(W)72-865	WR DSP	24.172	16.829	42.235	GRA OVER75A
AUST,WA,KALGOORL(W)72-861	WR DSP	28.106	17.497	43.631	GRA OVER75A
AUST,WA,KALGOORL(W)72-860	WR DSP	29.003	17.696	45.648	GRA OVER75A
AUST,WA,KALGOORL(W)72-864	WR DSP	29.230	17.772	44.823	GRA OVER75A

MUNGARI GRANITE

AUST,WA,KALGOORL(W)71-739A	WR DSP	23.371	16.521	39.404	GRA OVER75A
AUST,WA,KALGOORL(W)71-740A	WR DSP	23.862	16.612	40.728	GRA OVER75A
AUST,WA,KALGOORL(W)71-740B	WR DSP	23.934	16.619	40.823	GRA OVER75A
AUST,WA,KALGOORL(W)71-739B	WR DSP	23.520	16.588	40.074	GRA OVER75A
AUST,WA,KALGOORL(W)71-738	WR DSP	23.969	16.646	40.134	GRA OVER75A
AUST,WA,KALGOORL(W)71-737	WR DSP	24.623	16.777	39.553	GRA OVER75A

STENNET ROCKS

AUST,WA,KALGOORL(W)71-905A	WR DSP	17.122	15.721	37.894	GRA OVER75A
AUST,WA,KALGOORL(W)71-905B	WR DSP	16.789	15.664	37.033	GRA OVER75A
AUST,WA,KALGOORL(W)71-906A	WR DSP	17.267	15.745	36.892	GRA OVER75A
AUST,WA,KALGOORL(W)71-906B	WR DSP	17.228	15.783	36.248	GRA OVER75A

PILBARA BLOCK

ABOUT 280M.Y. FORMATION WITH ABOUT 2.1B.Y. METAMORPHISM

MT. NEWMAN 13 MILE QUARRY

AUST,WA,PILBARA (W)OV1549V	WR DSP-N	75.01	27.72	39.48	GRA OVER76A
AUST,WA,PILBARA (W)OV1549	WR DSP-N	96.86	32.90	42.48	GRA OVER76A
AUST,WA,PILBARA (W)OV1551	WR DSP-N	100.40	31.95	45.60	GRA OVER76A
AUST,WA,PILBARA (W)OV1548	WR DSP-N	97.81	32.39	42.96	GRA OVER76A

MT. NEWMAN 40 MILE QUARRY

AUST,WA,PILBARA (W)OV1546	WR DSP-N	28.61	17.61	36.92	GRA OVER76A
AUST,WA,PILBARA (W)OV1545A	WR DSP-N	26.26	17.08	38.84	GRA OVER76A

AUST,WA,PILBARA (W)OV1545B	WR DSP-N	26.22	17.15	37.86	GRA OVER76A
AUST,WA,PILBARA (W)OV1545C	WR DSP-N	26.08	17.07	37.47	GRA OVER76A

MT. NEWMAN 70 MILE QUARRY

AUST,WA,PILBARA (W)OV1541A	WR DSP-N	17.096	15.478	43.101	GRA OVER76A
AUST,WA,PILBARA (W)OV1541B	WR DSP-N	17.044	15.434	42.236	GRA OVER76A
AUST,WA,PILBARA (W)OV1542	WR DSP-N	16.510	15.400	44.466	GRA OVER76A
AUST,WA,PILBARA (W)OV1543	WR DSP-N	16.881	15.502	36.397	GRA OVER76A

WOODSTOCK

AUST,WA,PILBARA (W)OV1525A	WR DSP-N	19.822	16.117	41.961	GRA OVER76A
AUST,WA,PILBARA (W)OV1525B	WR DSP-N	20.282	16.266	42.246	GRA OVER76A
AUST,WA,PILBARA (W)OV1525V	WR DSP-N	16.559	16.469	34.292	GRA OVER76A
AUST,WA,PILBARA (W)OV1526	WR DSP-N	15.736	15.175	33.705	GRA OVER76A
AUST,WA,PILBARA (W)OV1527A	WR DSP-N	32.492	18.380	49.099	GRA OVER76A
AUST,WA,PILBARA (W)OV1527B	WR DSP-N	32.496	18.345	48.988	GRA OVER76A

MT. NEWMAN 127 MILE QUARRY

AUST,WA,PILBARA (W)OV1531	WR DSP-N	20.731	16.253	53.044	GRA OVER76A
AUST,WA,PILBARA (W)OV1531V	WR DSP-N	24.948	17.110	40.140	GRA OVER76A
AUST,WA,PILBARA (W)OV1535	WR DSP-N	18.184	15.873	43.196	GRA OVER76A

TAMBOURAH

AUST,WA,PILBARA (W)OV1511	WR DSP-N	15.937	15.200	45.978	GRA OVER76A
AUST,WA,PILBARA (W)OV1512	WR DSP-N	18.426	15.651	52.415	GRA OVER76A
AUST,WA,PILBARA (W)OV1513	WR DSP-N	16.275	15.192	45.804	GRA OVER76A
AUST,WA,PILBARA (W)OV1514	WR DSP-N	19.200	15.957	43.730	GRA OVER76A

COOGLEGONG

AUST,WA,PILBARA (W)OV1515	WR DSP-N	22.556	16.610	34.330	GRA OVER76A
AUST,WA,PILBARA (W)OV1516	WR DSP-N	17.004	15.500	48.717	GRA OVER76A
AUST,WA,PILBARA (W)OV1516B	WR DSP-N	17.014	15.505	48.877	GRA OVER76A
AUST,WA,PILBARA (W)OV1517	WR DSP-N	17.268	15.503	44.960	GRA OVER76A
AUST,WA,PILBARA (W)OV1518	WR DSP-N	17.360	15.609	40.207	GRA OVER76A
AUST,WA,PILBARA (W)OV1519	WR DSP-N	21.707	16.426	40.326	GRA OVER76A
AUST,WA,PILBARA (W)OV1535	WR DSP-N	18.184	15.873	43.196	GRA OVER76A

NORTH AMERICA

UNITED STATES
2800 M.Y.

MINNESOTA

U.S.,MN,ICARUS (W)NL-16	WR PUB	14.63	14.60	34.35	GRA A-H 75A
U.S.,MN,SACRED H(W)73MRV-1	WL GEL-N	34.544	18.646	78.877	GRA
U.S.,MN,SACRED H(W)73MRV-1	WR GEL-N	19.641	16.043	45.140	GRA
U.S.,MN,SACRED H(W)73MRV-1	RW GEL-N	14.902	15.208	34.523	GRA

WYOMING

GRANITE MOUNTAINS

* DRILL CORE, DEPTH 3FT					
U.S.,WY,GRANITE (W)DDH-GM-2	WR PUB	19.50	15.93	42.19	GRA RZNK73GJ
* SURFACE SAMPLE					

U.S.,WY,GRANITE (W)D1686	WR PUB	21.91	16.34	39.20	GRA R-B 69L
* DRILL CORE, DEPTH 18FT					
U.S.,WY,GRANITE (W)DDH-GM-1	WR PUB	23.93	16.69	37.99	GRA RZNK73GB
* DRILL CORE, DEPTH 5FT					
U.S.,WY,GRANITE (W)DDH-GM-1	WR PUB	28.53	17.84	36.26	GRA RZNK73GB
* DRILL CORE, DEPTH 100FT					
U.S.,WY,GRANITE (W)W2-CR14	WR PJB	29.14	17.91	47.40	GRA RZNK73GB
* DRILL CORE, DEPTH 157FT					
U.S.,WY,GRANITE (W)W2-CR14	WR PUB	29.36	17.97	47.92	GRA RZNK73GB
* DRILL CORE, DEPTH 10FT					
U.S.,WY,GRANITE (W)114942	WR PUB	30.09	18.03	37.98	GRA R-B 69L
* SURFACE SAMPLE					
U.S.,WY,GRANITE (W)2W263	WR PJB	31.24	18.34	35.41	GRA R-B 69L
U.S.,WY,GRANITE (W)114944	WR PUB	31.49	18.30	38.03	GPA R-B 69L
U.S.,WY,GRANITE (W)114943	WR PJB	32.02	18.14	39.16	GRA R-B 69L
* DRILL CORE, DEPT. 30FT					
U.S.,WY,GRANITE (W)114945	WR PUB	32.28	18.41	37.77	GRA R-B 69L
* DRILL CORE, DEPTH 165FT					
U.S.,WY,GRANITE (W)W2-CR26	WR PJB	36.11	18.93	42.31	GRA RZNK73G
* DRILL CORE, DEPTH 99FT					
U.S.,WY,GRANITE (W)W2-CR26	WR PUB	42.27	20.26	42.00	GRA RZNK73G
* DRILL CORE, DEPTH 747FT					
U.S.,WY,GRANITE (W)DDH-747	WR PUB	116.9	31.57	56.35	GRA R-B 69L
* DRILL CORE, DEPTH 20FT					
U.S.,WY,GRANITE (W)DDH-SM-1	WR PUB	31.86	18.40	37.51	GRA RZNK73GB
U.S.,WY,GRANITE (W)DDH-SM-2	WR PJB	33.02	18.46	37.47	GRA RZNK73GB
U.S.,WY,GRANITE (W)DDH-SM-4	WR PUB	34.04	18.88	38.53	GRA RZNK73GB
U.S.,WY,GRANITE (W)DDH-SM-3	WR PUB	36.80	19.41	38.82	GRA RZNK73GB

OTHER AREAS

CANADA

2650M.Y.

WESTERN GRANODIORITE, YELLOWKNIFE (1&2 ARE STOCK LAKE INTRUSIVE)

CAN.,NT,YELLOWKN(W)A75-3C	WR PBS-N	16.34	15.28	36.41	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-4	WR PBS-N	16.50	15.29	40.26	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-5	WR PBS-N	17.76	15.45	38.05	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-5C	WR PBS-N	18.11	15.61	39.11	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-1	WR PBS-N	18.32	15.63	36.16	SYN C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-2	WR PBS-N	18.47	15.82	39.33	MAF C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-8	WR PBS-N	18.65	15.75	40.29	DIO C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-8R	WR PBS-N	18.66	15.73	40.84	DIO C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-7	WR PBS-N	19.20	15.97	36.50	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-3	WR PBS-N	21.44	16.15	36.40	GRA C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-6B	WR PBS-N	40.80	19.55	45.88	PEG C-T 75CJ
CAN.,NT,YELLOWKN(W)A75-6	WR PBS-N	41.09	19.77	46.77	PEG C-T 75CJ

GREENLAND

2800M.Y.

FISKENAESSET

GRNL,FI,FISKENAE(W)74464	WR PUB-V	26.55	16.03	44.70	ANO BMPW73NT
GRNL,FI,FISKENAE(W)86897	WR PUB-V	14.38	14.65	33.70	ANO BMPW73NT

GRNL,FI,FISKENAE(W)86892	WR PUB-V	18.76	15.51	36.79	ANO BMPW73NT
GRNL,FI,FISKENAE(W)86916	WR PUB-V	20.30	15.79	34.55	ANO BMPW73NT
GRNL,FI,FISKENAE(W)86943	WR PUB-V	14.75	14.74	35.77	ANO BMPW73NT
GRNL,FI,FISKENAE(W)89784	WR PUB-V	13.79	14.54	35.90	GNG BMPW73NT

NORDLAND

GRNL,NO,NORDLAND(W)89885	WR PUB-V	21.20	15.96	34.83	ANO BMPW73NT
GRNL,NO,NORDLAND(W)89889	WR PUB-V	14.78	14.66	34.39	ANO BMPW73NT
GRNL,NO,NORDLAND(W)92530	WR PUB-V	13.72	14.43	33.46	GNG BMPW73NT
GRNL,NO,NORDLAND(W)92531	WR PUB-V	15.78	14.90	35.11	GNG BMPW73NT
GRNL,NO,NORDLAND(W)92532	WR PUB-V	13.75	14.44	33.18	GNG BMPW73NT

SUKKERTOPPEN

GRNL,SU,SUKKERTO(W)44717	WR PUB-V	18.81	15.66	36.68	GNG BMPW73NT
GRNL,SU,SUKKERTO(W)87805	WR PUB-V	13.16	14.22	33.40	GNG BMPW73NT
GRNL,SU,SUKKERTO(W)87806	WR PUB-V	13.67	14.39	35.32	GNG BMPW73NT

1850 M.Y.

AUSTRALIA

1950MY?

KALKADOON GRANITE

AUST,QU,MT. ISA (X)ANU3371	WR PUB	23.77	16.40	41.06	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3372	WR PUB	16.88	15.59	37.45	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3376	WR PUB	24.74	16.49	41.84	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3377	WR PUB	20.53	16.21	45.03	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3378	WR PUB	20.26	16.15	41.29	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3379	WR PUB	20.81	16.30	47.01	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU3380	WR PUB	32.81	17.62	43.05	GRA F-R 74DE
AUST,QU,MT. ISA (X)ANU379	WR PUB	22.49	16.10	43.25	GRA F-R 74DE

CANADA

1800 M.Y.

ALBERTA

CAN.,AL, (X)63-99-S	WR PUB	19.31	15.66	36.35	GRA B-G 72CJ
CAN.,AL, (X)63-95-1	WR PUB	22.47	16.00	38.90	GRA B-G 72CJ
CAN.,AL, (X)63-101-1	WR PUB	17.51	15.51	39.21	U-D B-G 72CJ
CAN.,AL, (X)63-94-2	WR PUB	19.43	16.40	40.30	GRA B-G 72CJ
CAN.,AL, (X)63-616-2	WR PUB	18.14	15.55	36.75	GRA B-G 72CJ
CAN.,AL, (X)63-628-6	WR PUB	25.98	16.13	37.56	GRA B-C 72CJ

SASKATCHEWAN

CAN.,SA, (X)3633	WR PUB	25.97	16.32	45.95	GRA RPB 70L
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UNITED STATES

1800 M.Y.

COLORADO

U.S.,CO,IDAHO SP(X)COMPOSIT WR PUB 19.48 15.77 38.74 PGN DOE 70M
 U.S.,CO,IDAHO SP(X)COMP. WL PBS-N 28.42 16.74 49.86 GN

MINNESOTA

U.S.,MN,SECT. 28(X)604 RW GEL-N 15.821 15.372 35.884 GRA
 U.S.,MN,SECT. 28(X)604 WR GEL-N 17.287 15.554 39.190 GRA
 U.S.,MN,SECT. 28(X)604 WL GEL-N 22.430 16.117 50.920 GRA

1600M.Y.

AUSTRALIA

1750-1650M.Y.

EASTERN CREEK VOLCANICS

AUST,QU,MT. ISA (X)ANU3397 WR PUB 19.26 16.04 38.79 INT F-R 74DE
 AUST,QU,MT. ISA (X)ANU3399 WR PUB 16.82 15.76 37.31 INT F-R 74DE
 AUST,QU,MT. ISA (X)ANU3400 WR PUB 16.74 15.59 36.82 INT F-R 74DE
 AUST,QU,MT. ISA (X)ANU3401 WR PUB 18.35 15.81 38.68 INT F-R 74DE
 AUST,QU,MT. ISA (X)ANU3402 WR PUB 22.07 16.35 43.17 INT F-R 74DE

1650M.Y.

SYBELLA GRANITE

AUST,QU,MT. ISA (X)ANU3373 WR PUB 21.24 16.14 41.42 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3374 WR PUB 21.51 16.15 43.42 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3374 WR PUB 21.65 16.23 43.71 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3375 WR PUB 21.58 16.44 44.81 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3381 WR PUB 22.77 16.35 43.77 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3382 WR PUB 23.30 16.37 46.73 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU3384 WR PUB 21.84 16.28 42.18 GRA F-R 74DE
 AUST,QU,MT. ISA (X)ANU586 WR PUB 20.82 16.36 40.83 GRA F-R 74DE

AUST,QU,MT. ISA (X)3371 WR PBS-N 23.536 16.155 40.261 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3372 WR PBS-N 16.714 15.357 36.722 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3376 WR PBS-N 24.297 16.243 41.026 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3377 WR PBS-N 20.328 15.967 44.154 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3379 WR PBS-N 20.605 16.056 46.096 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3380 WR PBS-N 32.487 17.356 42.213 GRA F-R 74DE
 AUST,QU,MT. ISA (X)379 WR PBS-N 22.269 15.859 42.409 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3373 WR PBS-N 21.031 15.899 40.614 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3374/1 WR PBS-N 21.299 15.908 42.575 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3374/2 WR PBS-N 21.437 15.987 42.860 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3375 WR PBS-N 21.368 16.194 43.938 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3375/MC WR PBS-N 16.575 15.436 36.222 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3381 WR PBS-N 22.546 16.105 42.919 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3382 WR PBS-N 23.071 16.125 45.821 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3384 WR PBS-N 21.625 16.036 41.360 GRA F-R 74DE
 AUST,QU,MT. ISA (X)3397 WR PBS-N 19.071 15.800 38.036 BAS F-R 74DE
 AUST,QU,MT. ISA (X)3399 WR PBS-N 16.655 15.524 36.584 BAS F-R 74DE
 AUST,QU,MT. ISA (X)3400 WR PBS-N 16.575 15.357 36.104 BAS F-R 74DE
 AUST,QU,MT. ISA (X)3401 WR PBS-N 18.170 15.573 37.928 BAS F-R 74DE
 AUST,QU,MT. ISA (X)3402 WR PBS-N 21.853 16.105 42.330 BAS F-R 74DE
 AUST,QU,MT. ISA (X)ANU3392 WR PBS 19.81 15.84 39.87 SED F-R 75CG

AUST,QU,MT. ISA (X)	ANU3393	WR P3S	20.45	15.93	40.32	SED F-R	75CG
AUST,QU,MT. ISA (X)	ANU3394	WR P3S	17.55	15.68	37.31	SED F-R	75CG
AUST,QU,MT. ISA (X)	ANU3396	WR P3S	18.10	15.80	38.07	SED F-R	75CG

1600M.Y.

MT. ALOYSIUS, TOMKINSON RANGES, CENTRAL AUSTRALIA (SILICIC ROCKS)
 (APPARENTLY ROCK FORMATION OR METAMORPHISM AT 1600M.Y FOLLOWED BY
 GRANULITE FACIES METAMORPHISM AT 1250M.Y)

AUST,CA,TOMKINSO(X)	69-1255	WR DSP	16.91	15.57	36.62	GNG G-0	72A
AUST,CA,TOMKINSO(X)	69-1320	WR DSP	17.05	15.61	38.04	GNG G-0	72A
AUST,CA,TOMKINSO(X)	71-271	WR DSP	17.09	15.61	36.86	GNG G-0	72A
AUST,CA,TOMKINSO(X)	71-272	WR DSP	16.88	15.61	36.96	GNG G-0	72A
AUST,CA,TOMKINSO(X)	GA2798	WR DSP	16.82	15.57	36.75	GNG G-0	72A
AUST,CA,TOMKINSO(X)	GA2797	WR DSP	16.92	15.58	39.10	GNG G-0	72A
AUST,CA,TOMKINSO(X)	69-1277	WR DSP	17.27	15.61	41.57	GNG G-0	72A
AUST,CA,TOMKINSO(X)	71-273	WR DSP	16.81	15.54	37.98	GNG G-0	72A

1400 M.Y.

UNITED STATES

1400 M.Y.

COLORADO

U.S.,CO,AG PLUME(Y)	GSP-1	WR PUB	13.08	15.67	47.33	GRA PDB	67U
U.S.,CO,UNCOMPAH(Y)	UNCOMPAH	WR PUB	20.04	15.55	36.36	GRA PAT	53NA
U.S.,CO,S. JUAN (Y)	2LD1EOLU	WR GEL-N	25.402	16.208	41.867	GRA	

MISSOURI

U.S.,MO,S.E. (Y)	67W71	WR PBS-N	17.55	15.45	37.44	RHY D-D	72E
U.S.,MO,S.E. (Y)	63W89	WR PBS-N	17.98	15.49	38.07	RHY D-D	72E
U.S.,MO,GRANITEV(Y)	75SD1	WR GEL-N	24.173	15.888	42.780	GRA	

NEW MEXICO

U.S.,NM,JONES C.(Y)	CB122-75	WR GEL-N	17.256	15.441	38.970	GRA	
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TEXAS

U.S.,TX,LLANO (Y)	1GN	WR PUB	23.27	15.89	41.86	PGN ZART65J	
U.S.,TX,LLANO (Y)	13GN	WR PUB	25.44	16.23	45.29	PGN ZART65J	
U.S.,TX,LLANO (Y)	21GN	WR FJB	19.78	15.73	42.12	PGN ZART65J	
U.S.,TX,LLANO (Y)	53GN	WR PUB	19.75	15.60	39.21	PGN ZART65J	

1000 M.Y.

AUSTRALIA

1000 M.Y.

GRANITE ?

AUST,QU,CAIRNS (Y?)	ANU2954	WR PUB	17.453	15.555	38.768	GRA B-R	72AJ
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NORTH AMERICA

CANADA
1000 M.Y.

ONTARIO
CAN., ON, ESSIONVIL (Y) ESSIONV. WR PUB 20.25 15.65 48.73 GRA TPBI55GB

UNITED STATES
1000 M.Y.

TEXAS
U.S., TX, LLANO (Y) 3GR WR PUB 18.55 15.49 38.39 GRA ZART65J
U.S., TX, LLANO (Y) 142QDG WR PUB 17.93 15.51 37.76 INT ZART65J

PHANEROZOIC

AUSTRALIA

ELIZABETH GRANITE

AUST, QU, CAIRNS (PEN) ANU2952 WR PUB 18.753 15.627 39.212 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2959 WR PUB 19.016 15.681 39.462 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2991 WR PUB 19.357 15.737 39.368 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2956 WR PUB 19.557 15.694 39.622 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2969 WR PUB 19.607 15.698 39.783 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2957 WR PUB 19.639 15.671 39.762 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2967 WR PUB 19.902 15.717 40.375 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2960 WR PUB 20.172 15.720 40.664 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2995 WR PUB 20.504 15.734 40.278 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2992 WR PUB 20.622 15.829 41.100 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2997 WR PUB 20.879 15.713 41.360 GRA B-R 72AJ

FEATHERBED VOLCANICS (RHYOLITES ?)

AUST, QU, CAIRNS (PEN) ANU2962 WR PUB 18.766 15.631 38.864 RHY B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2964 WR PUB 19.109 15.706 39.349 RHY B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2973 WR PUB 19.246 15.720 39.493 RHY B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2861 WR PUB 19.353 15.696 39.393 RHY B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2993 WR PUB 19.358 15.662 39.040 RHY B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2974 WR PUB 19.809 15.745 40.180 RHY B-R 72AJ

HERBERT RIVER GRANITE

AUST, QU, CAIRNS (PEN) ANU2968 WR PUB 18.640 15.641 38.967 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2955 WR PUB 19.090 15.680 40.139 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2977 WR PUB 19.944 15.693 40.290 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2965 WR PUB 19.947 15.618 39.750 GRA B-R 72AJ

?MAREEBA GRANITE

AUST, QU, CAIRNS (PEN) ANU2975 WR PUB 19.027 15.637 39.087 GRA B-R 72AJ

ALMADEN GRANITE

AUST, QU, CAIRNS (PEN) ANU2971 WR PUB 19.155 15.657 39.298 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2953 WR PUB 19.289 15.672 39.321 GRA B-R 72AJ
AUST, QU, CAIRNS (PEN) ANU2963 WR PUB 19.323 15.627 39.255 GRA B-R 72AJ

AUST, GU, CAIRNS (PEN) ANU2972 WR PUB 19.427 15.670 39.696 GRA B-R 72AJ

SWITZERLAND

GOTTHARD MASSIF

GIUBINE SERIES

SWIT, CA, GOTT. MA. (PAL) Z6GIUB. WR PUB 18.79 15.69 38.89 PGN N-S 74C0
 SWIT, CA, GOTT. MA. (PAL) Z4GIUB. WR PUB 18.98 15.73 38.72 PGN N-S 74C0
 SWIT, CA, GOTT. MA. (PAL) Z8B-GIU WR PUB 18.82 15.69 38.69 PGN N-S 74C0
 SWIT, CA, GOTT. MA. (PAL) Z18-GIU WR PUB 18.73 15.70 39.02 PGN N-S 74C0

SORESCIA GNEISS

SWIT, CA, GOTT. MA. (PAL) Z14A-SO WR PUB 18.87 15.73 38.94 PGN N-S 74C0

TREMOLA SERIES

SWIT, CA, GOTT. MA. (PAL) Z2TREM. WR PUB 18.90 15.68 38.99 PGN N-S 74C0

UNITED STATES
 PHANEROZOIC

RHODE ISLAND

U.S., RI, WESTERLY (PAL) G-2 WR PUB 18.42 15.63 38.98 GRA DTDP67UP

COMPOSITES

UNITED STATES

MONTANA

U.S., MT, PRECAME. (PRE) COMPOSIT WR PUB 18.67 15.81 39.06 M-P 61E
 U.S., MT, PALEOZ. (PAL) COMPOSIT WR PUB 19.92 16.00 39.84 M-P 61E

NIGERIA

NIGE, SW, IBADAN (PRE) 68BG62/2 WR DSP 19.469 15.757 42.091 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG62 KF DSP 17.708 15.648 38.573 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG67/1 WR DSP 20.207 16.020 43.276 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG67 KF DSP 19.564 16.041 42.079 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG67/A KR DSP 19.475 16.021 41.799 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG66/1 WR DSP 19.628 15.893 41.831 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG66 KF DSP 18.939 15.902 40.588 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG66/A KR DSP 18.933 15.945 40.442 APL OVER75L
 NIGE, SW, IBADAN (PRE) 68BG65 WR GEL 17.334 15.639 38.833 GGN OVER75L

ORES ORES ORES, OTHER AREAS, A ONLY (OKOTA .GRA) (24 JUNE 1976)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 205/204 207/206 208/204 TYPE REFER.

AFRICAN, NORTHERN

CYPRUS

CYP., SK, SKOURIOT (CRE) CYP-11 WR GEL-N 18.476 15.571 38.405 ORE

RED SEA REGION

EGYPT

MESOZOIC-CENOZOIC

EGYP, EL,	(CEN) BIR RANG	GN	3FI-N	18.595	15.589	38.405	ORE	
EGYP, EL,	(CEN) ZUG BAHA	GN	PBS-N	18.97	15.63	38.57	ORE	DOB 67L
EGYP, EL,	(CEN) UM ANS	GN	PBS-N	19.09	15.68	38.92	ORE	DOB 67L
EGYP, EL,	(CEN) UM GHEIG	GN	3FI-N	19.155	15.626	38.699	ORE	
EGYP, EL,	(CEN) TALEIT E	GN	3FI-N	20.755	15.694	41.005	ORE	

500-1000 M.Y.

EGYP, (Z?) FOWAKHIR GN PBS-N 17.83 15.50 37.35 GAL DOB 67L

MOROCCO

STRATIFORM DEPOSITS

MORO, P. TAGOUN (MES) P-209	GN	PUB	18.34	15.87	39.37	ORE	LSA 71F
MORO, P. TAGOUN (MES) P-317	GN	PUB	18.40	15.84	39.10	ORE	LSA 71F
MORO, P. TAGOUN (MES) P-322	GN	PUB	18.31	15.79	38.92	ORE	LSA 71F
MORO, P. TAGOUN (MES) P-100	GN	PUB	18.36	15.75	38.84	ORE	LSA 71F
MORO, P. TAGOUN (MES) P-101	GN	PUB	18.38	15.79	38.84	ORE	LSA 71F

OMAN

MESOZOIC-CENOZOIC

OMAN, (M-C) OMG-15 GN 3FI-N 18.726 15.680 38.906 ORE

SAUDI ARABIA

MESOZOIC-CENOZOIC

SAUD, E., (M-C) RABIGH	GN	3FI-N	18.716	15.571	38.195	ORE	
SAUD, E., DHAYLAN (M-C) 64135	GN	3FI-N	19.376	15.626	38.681	ORE	

500-1000 M.Y.

* WADI WASSAT MASSIVE SULFIDE							
SAUD	W.WASSAT (Y)	35112HCL	WL	GEL-N	18.311	15.475	37.423 ORE
SAUD	W.WASSAT (Y)	35112HNU	WL	GEL-N	18.216	15.458	37.316 ORE
SAUD	W.WASSAT (Y)	35112	WR	GEL-NC	17.24	15.41	36.96 ORE
* VEIN DEPOSIT							
SAUD	E..M.DHAHAB (Z?)	87250	GN	3FI-N	17.402	15.477	36.957 ORE
SAUD	E..M.DHAHAB (Z?)	87223	GN	3FI-N	17.405	15.474	36.978 ORE
SAUD	E..M.DHAHAB (Z?)	10B1005	GN	3FI-N	17.406	15.477	36.959 ORE
* NUGRAH MASSIVE SULFIDE							
SAUD	E..NUGRAH (Z?)	CORE	GN	3FI-N	17.407	15.477	37.043 ORE
* VEIN DEPOSIT							
SAUD	E..M.DHAHAB (Z?)	69115	GN	3FI-N	17.409	15.485	36.975 ORE
* RABADAN MASSIVE SULFIDE, WADI BIDAH DISTRICT							
SAUD	W.BIDAH (Z?)	76770RAB	WR	GEL-N	17.445	15.454	36.753 ORE
SAUD	W.BIDAH (Z?)	76770RAB	WR	GEL-NC	17.219	15.439	36.783 ORE
* WADI SHWAS MASSIVE SULFIDE							
SAUD	W.SHWAS (Z?)	70050	WR	GEL-N	17.458	15.499	37.007 ORE
SAUD	W.SHWAS (Z?)	70050	WR	GEL-NC	17.441	15.498	37.007 ORE
* VEIN DEPOSITS							
SAUD	E..GARB HAD (Z?)	64117	GN	3FI-N	17.486	15.448	37.016 ORE
SAUD	E.. (Z?)	SAMRAH	GN	3FI-N	17.491	15.498	37.263 ORE
SAUD	E..PROSPECT (Z?)	84415	GN	3FI-N	17.555	15.500	37.114 ORE
* SHA'AB ELTARE MASSIVE SULFIDE, WADI BIDAH DISTRICT							
SAUD	W.BIDAH (Z?)	68516(53	GN	3FI-N	17.587	15.524	37.087 ORE
* VEIN DEPOSITS							
SAUD	E..MAMALAH (Z?)	64132	GN	3FI-N	17.589	15.496	37.109 ORE
SAUD	E..MULHAL (Z?)	64683	GN	3FI-N	17.593	15.535	37.095 ORE
SAUD	E..S.KHAMIS (Z?)	E37214	GN	PBS-N	17.62	15.47	37.15 ORE
SAUD	E..KUSHAMI. (Z?)	72314	GN	3FI-N	17.642	15.518	37.387 ORE
SAUD	E..TUWAYRAH (Z?)	74878	GN	3FI-N	17.658	15.480	37.180 ORE
SAUD	E.. (Z?)	TAIF	GN	MTH-N	17.682	15.546	37.262 ORE DDB 67L
SAUD	E..PROSPECT (Z?)	64115	GN	3FI-N	17.695	15.480	37.217 ORE
SAUD	E..EOSNUN (Z?)	82115	GN	3FI-N	17.698	15.555	37.518 ORE
SAUD	E.. (Z?)	MUHAYLOT	GN	PBS-N	17.70	15.65	37.63 ORE DDB 67L
SAUD	E..BAHFOR (Z?)	72401	GN	3FI-N	17.723	15.544	37.471 ORE
SAUD	E..MUCKAHAL (Z?)	B-7	GN	3FI-N	17.742	15.505	37.261 ORE
SAUD	E..MOKHAYAT (Z?)	64112	GN	GEL-N	17.758	15.513	37.290 ORE
SAUD	E.. (Z?)	ARDAYAT	GN	PBS-N	17.77	15.55	37.50 ORE DDB 67L
SAUD	E.. (Z?)	JABAL HA	GN	MTH-N	17.783	15.550	37.408 ORE DDB 67L
SAUD	E..MUCKAHAL (Z?)	B-8	GN	PBS-N	17.82	15.60	37.57 ORE DDB 67L
SAUD	E.. (Z?)	ABU BIER	GN	3FI-N	17.854	15.515	37.326 ORE

TURKEY

LISTED BY WRITTEN PERMISSION OF OLAVI KOVVO

MESOZOIC-CENOZOIC

MENDERES MASSIF

TURK	W..KOCA TEPE(M-C)	G222	285	GN	GEL-N	15.68	15.64	38.79	ORE	KOUV74X
TURK	W..MAZIBASI(M-C)	G225	E19	GN	GEL-N	18.74	15.67	38.81	ORE	KOUV74X
TURK	W..HISARKOY(M-C)	G220	E-1	GN	GEL-N	18.78	15.68	38.90	ORE	KOUV74X
TURK	W..YAZIBASI(M-C)	G226	E19	GN	GEL-N	18.91	15.78	39.13	ORE	KOUV74X

ORDOVICIAN?

TURK,W.,	(ORD)G206 E26	GN	GEL-N	18.28	15.61	38.49	ORE	KOUV74X
TURK,W.,	(ORD)G206 E25	GN	GEL-N	18.29	15.60	38.33	ORE	KOUV74X
TURK,W.,	(ORD)G204TONY	GN	GEL-N	18.31	15.60	38.30	ORE	KOUV74X
TURK,W.,	ALANKOY (ORD)G224 E19	GN	GEL-N	18.31	15.60	38.37	ORE	KOUV74X
TURK,W.,	(ORD)G204TONY	GN	GEL-N	18.35	15.64	38.33	ORE	KOUV74X
TURK,W.,	SARIYURT (ORD)G221 E26	GN	GEL-N	18.37	15.65	38.41	ORE	KOUV74X
TURK,W.,	MADEN TE(ORD)G223 286	GN	GEL-N	18.38	15.67	38.50	ORE	KOUV74X

PHANEROZOIC

ZIGANA

TURK,E.,	KOSTERE (PHA)G207Z	GN	GEL-N	18.44	15.61	38.69	ORE	KOUV74X
TURK,E.,	KOSTERE (PHA)G207K	GN	GEL-N	18.47	15.63	38.58	ORE	KOUV74X
TURK,E.,	TATARKOY(PHA)G212	GN	GEL-N	18.51	15.57	38.41	ORE	KOUV74X
TURK,E.,	ASARCIK (PHA)G211	GN	GEL-N	18.55	15.55	38.44	ORE	KOUV74X
TURK,E.,	HAVIYANA(PHA)G208	GN	GEL-N	18.58	15.59	38.59	ORE	KOUV74X
TURK,E.,	SISORTO (PHA)G213	GN	GEL-N	18.58	15.61	38.54	ORE	KOUV74X
TURK,E.,	DARIDERE(PHA)G210	GN	GEL-N	18.64	15.60	38.61	ORE	KOUV74X
TURK,E.,	HAZINE (PHA)G209	GN	GEL-N	18.65	15.65	38.66	ORE	KOUV74X

MISCELLANEOUS

TURK,E.,	GUMUSHAK (PHA)G215	GN	GEL-N	18.65	15.56	38.64	ORE	KOUV74X
TURK,E.,	COTUKLAR(PHA)G214	GN	GEL-N	18.84	15.62	38.83	ORE	KOUV74X

YEMEN

MESOZOIC-CENOZOIC

YEM.,	HA,HAILAN (M-C)HAILAN	GN	MTH-N	18.668	15.700	39.691	ORE	DDB 67L
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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

AFRICAN, EQUATORIAL

ZAIRE

PRECAMBRIAN

EPIGENETIC

POST GANGUAN SERIES

ZAI.,	UE,KOKOSHO (V)E143	GN	PUB	12.63	14.32	32.71	ORE	R-F 60I
ZAI.,	UE,KOKOSHO2(V)4771CAH.	GN	3FI-N	12.619	14.254	32.520	ORE	

ZAI..UE	KOKOSHO (V)B25	GN PUB	12.73	14.32	32.65	ORE R-F	60I
POST KIBALIAN SERIES							
ZAI..KB	KIBALI (X?)B62DILA	GN PUB	15.72	15.50	35.74	ORE R-F	60I
ZAI..KB	KIBALI (X?)T61SZAM.	GN PUB	16.10	15.55	35.80	ORE R-F	60I
UKINGAN SERIES							
ZAI..KI	MWENDA. (Y?)B135	GN PUB	17.56	15.78	37.51	ORE R-F	60I
ZAI..KI	KIHODA (Y?)T905	GN PUB	17.79	15.89	38.37	ORE R-F	60I
ZAI..KI	KAMITU. (Y?)T621	GN PUB	17.70	15.77	37.27	ORE R-F	60I
ZAI..KI	MOGA (Y?)B134	GN PUB	18.10	15.89	38.22	ORE R-F	60I
KIBARAN SYSTEM (PRE-KATANGAN)							
ZAI..KA	KIBARAN (Y)T734KAF.	GN PUB	17.71	15.88	37.51	ORE R-F	60I
ZAI..KA	KIBARAN (Y)B-38KAF.	GN PUB	17.73	15.85	37.85	ORE R-F	60I
ZAI..KA	KIBARA M(Z?)B133LUP.	GN PUB	17.75	15.80	37.36	ORE R-F	60I
ZAI..KA	KIBARA M(Z?)G29MITW.	GN PUB	17.76	15.88	37.58	ORE R-F	60I
KATANGAN SYSTEM							
MINE SERIES							
ZAI..KA	COPPER B(Z?)VIIID19	GN PUB	18.19	15.80	38.23	ORE R-F	60I
KUNDELUNGU SERIES							
ZAI..KA	COPPER B(Z?)L150KEN.	GN PUB	18.04	15.67	38.01	ORE R-F	60I
ZAI..KA	COPPER B(Z?)T196KEN.	GN PUB	18.12	15.79	37.98	ORE R-F	60I
ZAI..KA	COPPER B(Z?)B-36KEN.	GN PUB	18.13	15.78	38.17	ORE R-F	60I
ZAI..KI	COPPER B(Z?)VIIID16	GN PUB	18.29	15.76	37.87	ORE C-S	66T
ZAI..KI	COPPER B(Z?)B31KIPU	GN PUB	18.35	15.83	38.51	ORE R-F	60I
ZAI..KA	KIKOSA L(Z?)VIIID17	GN PUB	18.36	15.83	38.51	ORE C-S	66T
ZAI..KA	KIKOSA L(Z?)VIIID17	GN PUB	18.38	15.81	38.45	ORE C-S	66T
POST TECTONIC KIBARAN							
ZAI..KA	MANO NO (Z?)B132	GN PUB	18.38	15.82	37.98	ORE R-F	60I
ZAI..KA	KISINGA (Z?)VIIID6	GN PUB	18.24	15.88	37.77	ORE C-S	66T
LINDIAN SERIES (CORRELATES WITH KATANGAN)							
ZAI..KA	LINDIAN (Z?)T623HOM.	GN PUB	18.09	15.85	38.10	ORE R-F	60I
ZAI..KI	RUINDI (Z?)B63BURU.	GN PUB	18.42	16.06	38.90	ORE R-F	60I
ZAI..KI	NYAMAK. (Z?)B35	GN PUB	18.42	15.98	38.52	ORE R-F	60I
ZAI..KI	NYAMAK. (Z?)VIIID10	GN PUB	18.58	16.05	38.37	ORE C-S	66T
SYNGENETIC							
BUSHIMAY SERIES							
ZAI..KA	BUSHIMAY(Y)T-622LU.	GN PUB	17.43	15.78	37.47	ORE R-F	60I
ZAI..KA	BUSHIMAY(Y)B-34SEN.	GN PUB	17.32	15.70	37.25	ORE R-F	60I
ZAI..KA	BUSHIMAY(Y)T-735GA.	GN PUB	17.37	15.81	37.20	ORE R-F	60I

ZAMBIA

EPIGENETIC

PHANEROZOIC

ZAM.	BROKEN H(PHA)T394	GN PUB	18.18	15.89	38.67	ORE R-F	60I
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PRECAMBRIAN

ZAM.	ND, COPPER B(Z?)VIID6LYL	GN PUB	18.38	15.77	38.72	ORE C-S	66T
ZAM.	LU, COPPER B(Z?)B138BUK.	GN PUB	18.52	15.87	39.12	ORE R-F	60I

AFRICAN, SOUTHERN

SOUTH AFRICA
3200 M.Y.

MASSIVE SULFIDE DEPOSIT

S.AF.	BA, EAGLE N.(V)Z-B 6	PY PUB-N	13.13	14.49	32.83	ORE S-K	76E
S.AF.	BA, EAGLE N.(V)Z-EN	PY PUB-N	14.51	14.97	33.26	ORE S-K	76E
S.AF.	BA, IVANHOE (V)Z-B 24	LY PUB-N	13.03	14.30	32.91	ORE S-K	76E
S.AF.	BA, IVANHOE (V)Z-B 24	PY PUB-N	13.59	14.48	33.46	ORE S-K	76E

VEIN DEPOSIT

S.AF.	BA, SHEBA (V)SHEBA	S3 PUB-N	12.50	14.08	32.28	ORE S-K	76E
S.AF.	BA, SHEBA (V)SHEBA	S3 PUB-NC	12.483	14.096	32.31	ORE S-K	76E
S.AF.	BA, ROSETTA (V)	GN PUB-N	12.522	14.126	32.35	ORE S-K	76E
S.AF.	BA, ROSETTA (V)	GN PUB-N	12.527	14.119	32.41	ORE S-K	76E
S.AF.	BA, AMO (V)AMO	GN PUB-N	12.794	14.357	32.67	ORE S-K	76E
S.AF.	BA, AMO (V)AMO	GN PUB-N	12.805	14.345	32.64	ORE S-K	76E
S.AF.	BA, DAISY (V)D-8	PY PUB-N	14.228	14.878	34.12	ORE S-K	76E
S.AF.	BA, DAISY (V)D-8	PY PUB-N	14.251	14.880	33.87	ORE S-K	76E
S.AF.	BA, DAISY (V)D-?	PY PUB-N	16.160	15.257	36.49	ORE S-K	76E
S.AF.	BA, DAISY (V)D-7	PY PUB-N	16.77	15.45	37.01	ORE S-K	76E
S.AF.	BA, GYPSY Q.(V)GYPSY Q.	GN PUB-N	12.796	14.348	32.54	ORE S-K	76E
S.AF.	BA, COMSTOC.(V)B-7	PY PUB-N	12.746	14.147	32.51	ORE S-K	76E
S.AF.	BA, CONTRAC.(V)SG-97	PY PUB-N	13.312	14.472	33.06	ORE S-K	76E
S.AF.	BA, M.MARKER(V)B-17	PY PUB-N	13.576	14.746	33.43	ORE S-K	76E
S.AF.	BA, M.MARKER(V)B-17	LY PUB-N	15.561	15.194	35.94	ORE S-K	76E
S.AF.	BA, CONSORT (V)C-3	PO PUB-N	13.62	14.40	32.74	ORE S-K	76E
S.AF.	BA, AGNES (V)B-20	PY PUB-N	13.597	14.644	32.94	ORE S-K	76E
S.AF.	BA, ROCHFORT(V)SG-86	PY PUB-N	12.762	14.319	32.61	ORE S-K	76E
S.AF.	BA, UNITY (V)SG-27	PY PUB-N	14.010	14.673	33.08	ORE S-K	76E

MASSIVE SULFIDE

S.AF.	BA, SHEBA Q.(V)Z29 B	PY PUB-N	13.28	14.46	32.75	ORE S-K	76E
S.AF.	BA, SHEBA Q.(V)Z29 B	LY PUB-N	14.70	14.80	33.59	ORE S-K	76E
S.AF.	BA, SHEBA Q.(V)Z-SG 29	PY PUB-N	14.77	14.76	33.43	ORE S-K	76E
S.AF.	BA, SHEBA Q.(V)Z-SG 29	PY PUB-N	14.87	14.79	33.56	ORE S-K	76E
S.AF.	BA, SHEBA Q.(V)Z-SG 29	PY PUB-N	17.01	15.37	33.66	ORE S-K	76E

VEIN DEPOSITS

S.AF.	BA, FRENCH B(V)586	GN 3FI-N	12.461	14.077	32.285	ORE SDU	69L
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MASSIVE SULFIDE DEPOSITS

S.AF.	MU, GRAVELO.(V)Z-M 1	S3 PUB-N	13.71	14.59	33.41	ORE S-K	76E
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S.AF/MU/GRAVELO.(V)Z-M 5	SB PUB-N	13.38	14.51	33.11	ORE S-K 76E
S.AF/MU/LETABA (V)Z-LE 4	PY PUB-N	12.67	14.07	32.47	ORE S-K 76E
S.AF/MU/LETABA (V)Z-LE 2	PY PUB-N	12.67	14.07	32.45	ORE S-K 76E
S.AF/MU/LETABA (V)Z-LE 6	GN PUB-N	12.68	14.12	32.58	ORE S-K 76E
S.AF/MU/LETABA (V)Z-LE 4	LY PUB-N	12.71	14.10	32.54	ORE S-K 76E
S.AF/MU/MONARC.E(V)Z-M-7	PY PUB-N	13.63	14.43	33.19	ORE S-K 76E
S.AF/MU/MONARC.E(V)Z-M 7A	PY PUB-N	13.78	14.54	33.53	ORE S-K 76E
S.AF/MU/MONARC.E(V)Z-M 7B	PY PUB-N	13.81	14.46	33.25	ORE S-K 76E
S.AF/MU/MONARC.E(V)Z-M 7B	LY PUB-N	14.42	14.60	34.15	ORE S-K 76E
S.AF/MU/MONARC.E(V)Z-M 7A	LY PUB-N	17.33	15.38	36.71	ORE S-K 76E
S.AF/MU/UNI.JACK(V)Z-M 8	PO PUB-N	36.79	20.27	49.75	ORE S-K 76E

VEIN DEPOSIT

S.AF/MU/OLD STAR(V)OS-3	GN PUB-N	12.196	13.614	32.05	ORE S-K 76E
S.AF/MU/OLD STAR(V)OS-3'	GN PUB-N	12.200	13.824	32.08	ORE S-K 76E
S.AF/MU/OLD STAR(V)OS-2	GN PUB-N	12.228	13.877	32.23	ORE S-K 76E
S.AF/MU/OLD STAR(V)OS-1	GN PUB-N	12.233	13.891	32.28	ORE S-K 76E
S.AF/MU/MONARCH (V)M-33	CN PUB-N	17.34	15.58	36.12	ORE S-K 76E

MESSINA

1000 M.Y.

S.AF/ME/MESSINA (Y?)MESSINA	GN 3FI-N	18.423	16.240	41.063	ORE
S.AF/ME/MESSINA (Y?)ARTONVIL	GN 3FI-N	18.544	16.434	40.096	ORE
S.AF/ME/MESSINA (Y?)CAMPBELL	GN 3FI-N	19.977	16.588	42.075	ORE
S.AF/LB/MOPANE P(X)MP2	GN 3FI-N	14.752	15.232	34.377	ORE
S.AF/LB/MOPANE P(X)MP1	GN 3FI-N	14.759	15.234	34.357	ORE
S.AF/LB/MPOANE (X)MP-3	GN 3FI-N	14.799	15.259	34.391	ORE

RHODESIA

VEIN DEPOSITS

RHOD/LB/BORDER R(X)RSR-9	GN 3FI-N	17.354	15.835	39.102	ORE
RHOD/LB/BORDER R(X)RSR-4	GN 3FI-N	17.463	16.016	41.511	ORE
RHOD/LB/BORDER R(X)RSR-6N	GN 3FI-N	17.497	15.971	40.541	ORE
RHOD/LB/BORDER R(X)RSR-3	GN 3FI-N	17.552	15.983	40.132	ORE
RHOD/LB/BORDER R(X)RSR-1	GN 3FI-N	17.604	16.084	41.762	ORE
RHOD/LB/BORDER R(X)RSR-6S	GN 3FI-N	17.629	16.099	41.719	ORE
RHOD/LB/BORDER R(X)RSR-5	GN 3FI-N	17.652	16.045	40.233	ORE
RHOD/LB/BORDER R(X)RSR-2	GN 3FI-N	17.659	16.049	40.696	ORE

ASIA

INDONESIA

MESOZOIC-CENOZOIC

SUMATRA

INDO/SU/S.TUBOH (CEN)INDO-6	GN 3FI-N	18.360	15.582	38.411	ORE
INDO/SU/SIMAU AU(CEN)INDO-2	GN 3FI-N	18.419	15.580	38.462	ORE
INDO/SU/MUARA SI(CEN)INDO-5	GN 3FI-N	18.663	15.634	38.550	ORE

INDO,SU,MANGANI (CEN)INDO-8 GN 3FI-N 18.944 15.700 39.170 ORE

BELITUNG

INDO,BE,BELITUNG(MES)SELUMAR GN 3FI-N 18.497 15.711 38.678 ORE

INDO,BE,BELITUNG(MES)KELAPA K GN 3FI-N 18.609 15.714 38.948 ORE

JAVA

INDO,JA,G.PARANG(CEN)INDO-13 GN 3FI-N 18.594 15.620 38.721 ORE

INDO,JA,CIKONDAN(CEN)INDO-12 GN 3FI-N 18.597 15.618 38.729 ORE

INDO,JA,G.SAWAL (CEN)INDO-9 GN 3FI-N 18.608 15.719 38.961 ORE

INDO,JA,S.BANTOM(CEN)INDO-10 GN 3FI-N 18.790 15.695 39.188 ORE

SULAWESI

INDO,SL,SULAWESI(CEN)I15SASSA GN 3FI-N 18.199 15.590 39.019 ORE

JAPAN

HOKKAIDO

NIH ,HK,HOKKAIDO(CEN)TOYAK-14 GN 3FI-N 18.455 15.582 38.552 ORE

NIH ,HK,HOKKAIDO(CEN)TOYA GN PUB 18.52 15.56 38.68 ORE S-S 58A

HONSHU

AKITA

NIH ,HO,AKITA (CEN)DAIRA 51 GN MTH-N 18.14 15.52 38.39 ORE SSK 73GJ

* MASSIVE SULFIDE DEPOSIT

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.30 15.50 38.19 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.31 15.42 38.16 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.34 15.49 38.45 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.36 15.46 38.36 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.37 15.47 38.31 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN PBS-N 18.44 15.57 38.78 ORE S-S 73E

NIH ,HO,AKITA (CEN)KOSAKA10 GN 3FI-N 18.463 15.589 38.623 ORE

NIH ,HO,AKITA (CEN)HANAWA12 GN PBS-N 18.36 15.46 38.41 ORE S-S 73E

NIH ,HO,AKITA (CEN)HANAWA12 GN PBS-N 18.43 15.56 38.58 ORE S-S 73E

NIH ,HO,AKITA (CEN)OSARI 51 GN MTH-N 18.44 15.51 38.39 ORE SSK 73GJ

NIH ,HO,AKITA (TER)HANAOK51 GN MTH-N 18.44 15.54 38.45 ORE SSK 73GJ

NIH ,HO,AKITA (CEN)ARAKAWA GN PUB 18.44 15.57 38.74 ORE S-S 58A

NIH ,HO,AKITA (CEN)OSARUSA GN PUB 18.54 15.58 38.82 ORE S-S 58A

NIH ,HO,AKITA (CEN)HANAOKA GN PUB 18.55 15.57 38.61 ORE S-S 58A

NIH ,HO,AKITA (CEN)SHAKAN12 GN PBS-N 18.55 15.58 38.54 ORE S-S 73E

NIH ,HO,AKITA (CEN)HOSOKURA GN PUB 18.59 15.59 38.73 ORE S-S 58A

NIH ,HO,AKITA (CEN)TAMAGAWA GN PUB 18.63 15.61 39.04 SIN S-S 58A

GUMMA

NIH ,HO,GUMMA (CEN)NAKAMARJ GN PUB 18.50 15.63 38.61 ORE S-S 58A

NIH ,HO,GUMMA (CEN)NAKAMARU GN PUB 18.57 15.65 38.59 ORE S-S 58A

MIYAGI

NIH	/HO/MIYAGI	(CEN)DAIRA M.	GN	PUB	18.32	15.43	38.45	ORE	S-S	58A
NIH	/HO/MIYAGI	(CEN)HOSO.M52	GN	MTH-N	18.54	15.59	38.55	ORE	SSK	73GJ
NIH	/HO/MIYAGI	(CEN)OHARA-MJ	GN	PUB	18.72	15.73	38.75	ORE	S-S	58A
NIH	/HO/MIYAGI	(CEN)CHIEN M.	PR	PUB	18.80	15.79	38.92	ORE	S-S	58A

NIIGATA

NIH	/HO/NIIGATA	(CEN)MIKAWA M	PR	PUB	18.31	15.50	38.46	ORE	S-S	58A
NIH	/HO/NIIGATA	(CEN)RUDO M.5	GN	MTH-N	18.34	15.42	38.21	ORE	SSK	73GJ
NIH	/HO/NIIGATA	(MES)NANETS52	GN	MTH-N	18.42	15.57	38.47	ORE	SSK	73GJ
NIH	/HO/NIIGATA	(CEN)MIKAWA51	GN	MTH-N	18.46	15.59	38.66	ORE	SSK	73GJ
NIH	/HO/NIIGATA	(CEN)MIKAWA M	GN	PUB	18.58	15.66	39.00	ORE	S-S	58A

SHIMANE

* MASSIVE SULFIDE DEPOSIT

NIH	/HO/IWAMI	(CEN)IK-10	GN	PBS-N	18.23	15.53	38.48	ORE	S-S	73E
NIH	/HO/WANIBUCH	(CEN)WO-7	GN	3FI-N	18.245	15.569	38.417	ORE		
NIH	/HO/WANIBUCH	(CEN)WO-5	GN	PBS-N	18.27	15.63	38.84	ORE	S-S	73E

OTHERS

NIH	/HO/GIFU	(MES)KAMIOKA	GN	PJB	18.20	15.55	38.71	ORE	S-S	58A
NIH	/HO/HYOGO	(MES)IKUNO566	GN	MTH-N	18.27	15.47	38.27	ORE	SSK	73GJ
* MASSIVE SULFIDE DEPOSIT										
NIH	/HO/IWATE	(MES)TARO71T3	GN	3FI-N	18.712	15.621	38.669	ORE		
NIH	/HO/IWATE	(MES)TARO M51	GN	MTH-N	18.70	15.64	38.68	ORE	SSK	73GJ
VEIN DEPOSIT										
NIH	/HO/ISHIKAWA	(CEN)UGOYA 52	PR	MTH-N	18.58	15.47	38.74	ORE	SSK	73GJ
NIH	/HO/IBARAGI	(CEN)SHIOYA M	GN	PUB	18.36	15.53	38.59	ORE	S-S	58A
NIH	/HO/SHIZUOKA	(CEN)MIKURA	PR	PUB	18.39	15.64	38.52	ORE	S-S	58A
* MASSIVE SULFIDE DEPOSIT										
NIH	/HO/YAMAGATA	(CEN)YOSHI.13	GN	PBS-N	18.42	15.58	38.52	ORE	S-S	73E
NIH	/HO/YAMAGATA	(CEN)YOSHI.13	GN	3FI-N	18.475	15.607	38.633	ORE		
VEIN DEPOSIT										
NIH	/HO/SAITAMA	(CEN)CHICHIBU	GN	PUB	18.71	15.83	39.20	ORE	S-S	58A
NIH	/HO/ISHIKAWA	(CEN)UGOYA M.	PR	PJB	18.82	15.67	39.32	ORE	S-S	58A

KYUSHU

KAGOSHI

NIH	/KY/KAGOSHI	(CEN)NISHISUZ	PR	PJB	18.37	15.53	38.80	ORE	S-S	58A
NIH	/KY/KAGOSHI	(CEN)NISHISUZ	PR	PUB	18.59	15.72	39.02	ORE	S-S	58A

NAGASAKI

NIH	/KY/NAGASAKI	(CRE)TAISHU51	GN	MTH-N	18.33	15.51	38.46	ORE	SSK	73GJ
NIH	/KY/NAGASAKI	(CRE)TAISHU10	GN	3FI-N	18.470	15.646	38.966	ORE		
NIH	/KY/NAGASAKI	(CRE)TAISHU M	GN	PUB	18.47	15.59	39.02	ORE	S-S	58A

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 IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
 LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

AUSTRALIA

MESOZOIC-CENOZOIC

AUST, WHITE I.(CEN)WHITE I. MTH-N 18.757 15.603 38.644 ORE ORS 67CJ

PHANEROZOIC

* MASSIVE SULFIDE DEPOSIT

AUST,NS,N.S.WALE(SIL)CAPNSIN' GN MTH-N 18.055 15.619 38.145 ORE ORS 67CJ
 AUST,NS,N.S.WALE(SIL)COBAR GN MTH-N 18.082 15.624 38.125 ORE ORS 67CJ
 AUST,TA,N.S.WALE(CAM)READ ROS GN MTH-N 18.250 15.599 38.050 ORE ORS 67CJ
 AUST,NS,N.S.WALE(PER)HALL'S P GN MTH-N 18.350 15.607 38.347 ORE ORS 67CJ

VEIN DEPOSITS

MUNGANA AREA

AUST,QU,CAIRNS (CAR)ANU261 GN PUB 18.151 15.675 39.453 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU99 GN PUB 18.192 15.679 39.127 ORE B-R 72E

REDCAP AREA

AUST,QU,CAIRNS (CAR)ANU97 GN PUB 18.358 15.655 38.627 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU98 GN PUB 18.375 15.643 38.595 ORE B-R 72E

CHILLAGOE-OOTANN AREA

AUST,QU,CAIRNS (CAR)ANU265 GN PUB 18.397 15.659 38.698 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU253 GN PUB 18.402 15.657 38.669 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU101 GN PUB 18.414 15.675 38.752 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU263 GN PUB 18.420 15.683 38.683 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU266 GN PUB 18.432 15.659 38.733 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU252 GN PUB 18.435 15.660 38.652 ORE B-R 72E

CARDROSS AREA

AUST,QU,CAIRNS (CAR)ANU96 GN PUB 17.939 15.575 38.922 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU251 GN PUB 17.942 15.586 38.932 ORE B-R 72E

DAROREONG AREA

AUST,QU,CAIRNS (CAR)ANU100 GN PUB 17.532 15.603 38.551 ORE B-R 72E
 AUST,QU,CAIRNS (CAR)ANU262 GN PUB 17.608 15.583 38.514 ORE B-R 72E

ALMADEN AREA

AUST,QU,CAIRNS (CAR)ANU102 GN PUB 18.392 15.634 38.396 ORE B-R 72E

KCORBOORA AREA

AUST,QU,CAIRNS (CAR)ANU106 GN PUB 18.525 15.682 38.651 ORE B-R 72E

AUST,QU,CAIRNS	(CAR) ANU105	GN PUB	15.577	15.662	38.556	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU227	GN PUB	18.596	15.650	38.522	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU104	GN PUB	18.604	15.691	38.648	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU103	GN PUB	18.610	15.672	38.579	ORE B-R	72E

FEATHERBED AREA

AUST,QU,CAIRNS	(CAR) ANU259	GN PUB	18.467	15.647	38.450	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU255	GN PUB	18.498	15.646	38.557	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU108	GN PUB	18.558	15.669	38.533	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU107	GN PUB	18.565	15.654	38.487	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU254A	GN PUB	18.565	15.658	38.509	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU254B	GN PUB	18.573	15.671	38.552	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU245	GN PUB	18.601	15.651	38.481	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU239	GN PUB	18.625	15.645	38.472	ORE B-R	72E

EMUFORD-IRVINEBANK-STANNARY HILLS AREA

AUST,QU,CAIRNS	(CAR) ANU228	GN PUB	18.586	15.631	38.404	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU242	GN PUB	18.591	15.645	38.449	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU240	GN PUB	18.618	15.684	38.582	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU246	GN PUB	18.628	15.697	38.605	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU244	GN PUB	18.632	15.706	38.673	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU241	GN PUB	18.639	15.678	38.594	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU243	GN PUB	18.643	15.707	38.639	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU229	GN PUB	18.666	15.681	38.616	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU238	GN PUB	18.675	15.713	38.668	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU247	GN PUB	18.690	15.698	38.647	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU109	GN PUB	18.878	15.681	38.700	ORE B-R	72E

HERBERTON AREA

AUST,QU,CAIRNS	(CAR) ANU248	GN PUB	18.552	15.623	38.374	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU111	GN PUB	18.615	15.687	38.560	ORE B-R	72E

SILVER VALLEY AREA

AUST,QU,CAIRNS	(CAR) ANU249	GN PUB	18.585	15.652	38.505	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU250	GN PUB	18.612	15.667	38.546	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU110	GN PUB	18.612	15.678	38.570	ORE B-R	72E

MT. GARNET AREA

AUST,QU,CAIRNS	(CAR) ANU237	GN PUB	18.527	15.674	38.588	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU267	GN PUB	18.537	15.657	38.526	ORE B-R	72E

BROWNVILLE AREA

AUST,QU,CAIRNS	(CAR) ANU260	GN PUB	18.572	15.656	38.478	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU257	GN PUB	18.592	15.677	38.572	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU264	GN PUB	18.603	15.682	38.635	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU256	GN PUB	18.646	15.709	38.663	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU258	GN PUB	18.656	15.706	38.635	ORE B-R	72E

ISOLATED MINES

AUST,QU,CAIRNS	(CAR) ANU112	GN PUB	17.987	15.575	38.480	ORE B-R	72E
AUST,QU,CAIRNS	(CAR) ANU273	GN PUB	18.051	15.587	38.471	ORE B-R	72E

1600 N.Y.

* MASSIVE SULFIDE DEPOSIT

AUST,NS,BROKEN H (X)UBC-1B.4	GN	3FI-N	16.007	15.397	35.675	ORE	SOU 69L
AUST,QU,MT. ISA (X)MT. ISA	GN	MTH-N	16.111	15.460	35.847	ORE	ORS 69L
AUST,QU,MT. ISA (X)ANU146	GN	MTH-N	16.126	15.450	35.839	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU147	GN	MTH-N	16.122	15.448	35.827	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU152	GN	MTH-N	16.113	15.442	35.827	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU154	GN	MTH-N	16.119	15.462	35.862	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU161	GN	MTH-N	16.114	15.465	35.880	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU163	GN	MTH-N	16.102	15.454	35.853	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU158	GN	MTH-N	16.120	15.439	35.841	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU159	GN	MTH-N	16.125	15.473	35.874	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU160	GN	MTH-N	16.161	15.497	35.957	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU162	GN	MTH-N	16.175	15.458	35.860	ORE	RICH75DE
AUST,QU,MT. ISA (X)ANU185	GN	MTH-N	16.158	15.535	36.078	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU69	GN	MTH-N	16.162	15.471	35.880	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU77	GN	MTH-N	16.171	15.476	35.898	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU78	GN	MTH-N	16.150	15.459	35.835	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU85	GN	MTH-N	16.145	15.471	35.883	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU9	GN	MTH-N	16.213	15.491	35.948	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU87	GN	MTH-N	16.251	15.498	35.988	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU88	GN	MTH-N	16.349	15.518	36.140	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU89	GN	MTH-N	16.205	15.498	35.950	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU90	GN	MTH-N	16.334	15.498	36.041	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU91	GN	MTH-N	16.187	15.475	35.923	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU92	GN	MTH-N	16.207	15.475	35.859	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU180	GN	MTH-N	16.390	15.480	36.042	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU181	GN	MTH-N	16.330	15.504	36.138	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU182	GN	MTH-N	16.333	15.500	38.081	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU183	GN	MTH-N	16.347	15.517	36.138	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU91	GN	MTH-N	16.187	15.475	35.923	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU92	GN	MTH-N	16.207	15.475	35.859	ORE	RICH75DE
AUST,NT,MCARTHU.(X)ANU180	GN	MTH-N	16.390	15.480	36.042	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU181	GN	MTH-N	16.390	15.504	36.138	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU182	GN	MTH-N	16.333	15.500	38.081	ORE	RICH75DE
AUST,QU,LAWN HIL(X)ANU183	GN	MTH-N	16.347	15.517	36.138	ORE	RICH75DE

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CANADA

BRITISH COLUMBIA
MESOZOIC

CAN. BC. BIG LEDG(M-C)R449	PY PUB-N	19.33	15.74	39.74	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R319	PY PUB-N	19.37	15.71	39.68	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R468	GN PUB-N	19.39	15.76	39.54	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R413	PO PUB-N	19.39	15.77	39.89	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R133	PO PUB-N	19.40	15.78	39.76	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R468	PY PUB-N	19.41	15.77	39.87	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R72	PY PUB-N	19.42	15.78	39.87	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R365	GN PUB-N	19.42	15.81	40.03	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R319	PO PUB-N	19.43	15.79	39.92	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R423	PY PUB-N	19.45	15.83	40.04	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R411	PY PUB-N	19.46	15.76	39.50	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R438	PO PUB-N	19.47	15.78	39.89	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R2	GN PUB-N	19.50	15.87	40.19	ORE C-G	73CJ
CAN. BC. BIG LEDG(M-C)R104	GN PUB-N	19.52	15.86	40.14	ORE C-G	73CJ

CAN. BC. KOOTENAY(MES)BC237BLJ	GN MTH-N	17.62	15.58	38.50	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC182LAK	GN MTH-N	17.68	15.58	38.50	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC290WIG	GN MTH-N	18.28	15.68	38.33	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC318MDL	GN MTH-N	18.37	15.69	38.42	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC289COT	GN MTH-N	18.48	15.72	38.42	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC292RUD	GN MTH-N	18.52	15.68	38.15	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC294VIC	GN MTH-N	18.82	15.73	39.29	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC295SCR	GN MTH-N	18.93	15.75	39.14	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC284JAC	GN MTH-N	19.01	15.74	39.30	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC293REE	GN MTH-N	19.07	15.76	39.44	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC285REE	GN MTH-N	19.12	15.76	39.50	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC300JER	GN MTH-N	19.14	15.77	39.59	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC287JER	GN MTH-N	19.14	15.78	39.57	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC288JER	GN MTH-N	19.15	15.79	39.57	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC286H.B	GN MTH-N	19.16	15.80	39.64	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC283JER	GN MTH-N	19.18	15.79	39.67	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC317MOO	GN MTH-N	19.25	15.74	39.62	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC291SAL	GN MTH-N	19.41	15.79	39.87	ORE SINC66CM
CAN. BC. KOOTENAY(MES)BC282DUN	GN MTH-N	19.42	15.80	39.98	ORE SINC66CM

PHANEROZOIC

CAN. BC. (PHA)LESA 16	GN 3FI-N	18.214	15.613	38.302	ORE
CAN. BC. (PHA)SILVER 3	GN 3FI-N	18.997	15.661	39.172	ORE
CAN. BC. (PHA)COLUMBIA	GN 3FI-N	19.059	15.695	38.897	ORE

1400 M.Y.

CAN. BC. (Y)GR.DANE1	GN 3FI-N	16.353	15.406	36.049	ORE
CAN. BC. (Y)WELCOME1	GN 3FI-N	16.378	15.407	36.070	ORE
CAN. BC. (Y)SULLIV.2	GN 3FI-N	16.507	15.460	36.153	ORE

CAN.,BC,	(Y)	SULLIV.2	GN	3FI-N	16.530	15.477	36.175	ORE
CAN.,BC,	(Y)	WATERT.2	GN	3FI-N	16.548	15.404	36.166	ORE

IN ALDRICH SEDIMENTS OF THE BELT SUPERGROUP

CAN.,BC,KOOTENAY	(Y)	BC323SUL	GN	MTH-N	16.52	15.48	36.16	ORE	SINC66CM
CAN.,BC,KOOTENAY	(Y)	BC321SUL	GN	MTH-N	16.52	15.49	36.20	ORE	SINC66CM
CAN.,BC,KOOTENAY	(Y)	BC844SUL	GN	MTH-N	16.524	15.478	36.191	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC845SUL	GN	MTH-N	16.531	15.486	36.197	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC846SUL	GN	MTH-N	16.449	15.460	36.103	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC847SUL	GN	MTH-N	16.518	15.469	36.162	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC848SUL	GN	MTH-N	16.519	15.477	36.187	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC849SUL	GN	MTH-N	16.529	15.481	36.169	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC850SUL	GN	MTH-N	16.616	15.464	36.192	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC778KOD	GN	MTH-N	16.405	15.451	36.151	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC779EST	GN	MTH-N	16.393	15.442	36.156	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC780N.S	GN	MTH-N	16.434	15.449	36.052	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC781STE	GN	MTH-N	16.444	15.450	36.087	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC761VUL	GN	MTH-N	16.339	15.404	35.962	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC773FOR	GN	MTH-N	16.388	15.421	36.071	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC808FOR	GN	MTH-N	16.341	15.404	35.981	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC853FOR	GN	MTH-N	16.324	15.401	35.957	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC762K.C	GN	MTH-N	16.332	15.406	35.985	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC832EUG	GN	MTH-N	16.340	15.415	36.015	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC833AUR	GN	MTH-N	16.337	15.409	36.024	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC835SOC	GN	MTH-N	16.314	15.410	35.996	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC836DOM	GN	MTH-N	16.393	15.429	36.058	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC760RIM	GN	MTH-N	16.426	15.430	36.106	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC837ALI	GN	MTH-N	16.374	15.417	36.073	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC888MAR	GN	MTH-N	16.603	15.467	36.392	ORE	LECO73TH
CAN.,BC,KOOTENAY	(Y)	BC889MAR	GN	MTH-N	16.558	15.467	36.329	ORE	LECO73TH

MANITOBA
1800 M.Y.

* MASSIVE SULFIDE DEPOSIT

CAN.,MA,FLIN FLO	(X)	T-648	GN	MTH-N	15.315	15.106	34.846	ORE	S-R 73CJ
CAN.,MA,FLIN FLO	(X)	T-558	GN	3FI-N	15.337	15.144	34.910	ORE	SOU 69L
CAN.,MA,FLIN FLO	(X)	T-652	GN	MTH-N	15.387	15.116	34.940	ORE	S-R 73CJ
CAN.,MA,FLIN FLO	(X)	T-659	GN	MTH-N	15.709	15.256	35.176	ORE	S-R 73CJ
CAN.,MA,FLIN FLO	(X)	T-660	GN	MTH-N	15.745	15.228	35.297	ORE	S-R 73CJ

NEW BRUNSWICK

ORDOVICIAN

* MASSIVE SULFIDE DEPOSIT

CAN.,NB,BATHURST(ORD)	T807	GN	3FI-N	18.204	15.655	38.122	ORE	SOU 69L
CAN.,NB,BATHURST(ORD)	EATHURST	GN	MTH-N	18.291	15.780	38.526	ORE	ORS 67CJ
CAN.,NB,BATHURST(ORD)	T807BRUN	GN	PUB	18.22	15.72	38.06	ORE	R-F 60I
CAN.,NB,BATHURST(ORD)	T532KEYM	GN	PUB	18.26	15.78	38.28	ORE	R-F 60I
CAN.,NB,BATHURST(ORD)	T810KEYM	GN	PUB	18.36	15.81	38.41	ORE	R-F 60I

NEWFOUNDLAND

MASSIVE SULFIDE DEPOSIT

CAN..NF..BUCHANS (PHA)T203BUC.	GN PUB	18.18	15.81	38.05	ORE R-F 60I
CAN..NF..BUCHANS (PHA)2891-89	GN 3FI-N	17.848	15.507	37.670	ORE

NORTHWEST TERRITORIES

PINE POINT
PHANEROZOIC

CAN..NT..PINE P. (DEV)A11	GN P3S-N	18.17	15.61	37.96	ORE C-R 69E
CAN..NT..PINE P. (DEV)A9	GN P3S-N	18.17	15.64	38.26	ORE C-R 69E
CAN..NT..PINE P. (DEV)A8	GN P3S-N	18.23	15.62	38.29	ORE C-R 69E
CAN..NT..PINE P. (DEV)A6009B	GN P3S-N	18.17	15.62	38.25	ORE C-R 69E
CAN..NT..PINE P. (DEV)A6009A	GN P3S-N	18.17	15.62	38.21	ORE C-R 69E

CHURCHILL PROVINCE

1800MY(2800MY SOURCE MATERIAL ?)

CAN..NT..CHURCHIL(X)THUBEN L	GN PUB-N	15.03	15.18	34.46	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)BASILLE	GN PUB-N	15.53	15.24	35.02	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)NORRIS L	GN PUB-N	15.54	15.23	34.94	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)DUCK L.	GN PUB-N	15.65	15.28	34.97	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)FRENCH L	GN PUB-N	15.68	15.31	35.38	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)O'CONNOR	GN PUB-N	15.88	15.37	35.52	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)FRED CL.	GN PUB-N	16.06	15.40	35.78	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)POST ISL	GN PUB-N	16.12	15.43	36.02	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)J65-65A	GN PUB-N	16.19	15.44	35.95	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)ROCHER R	GN PUB-N	16.28	15.47	35.95	ORE R-C 68CJ
CAN..NT..CHURCHIL(X)RAE HIGH	GN PUB-N	17.02	15.81	36.50	ORE R-C 68CJ

GIANT YELLOWKNIFE

2800MY(3800MY SOURCE MATERIAL ?)

CAN..NT..YELLOWKN(W)PTARMIGA	GN PUB-N	13.63	14.68	33.49	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)DISCOVER	GN PUB-N	13.74	14.70	33.48	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)TOM PIT	GN PUB-N	13.83	14.85	33.73	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)CRESTOUR	GN PUB-N	13.95	14.93	33.79	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)CRESTOUR	PY PUB-N	14.13	15.15	34.25	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)TOM PIT	PY PUB-N	14.14	14.96	34.03	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)LIKELY L	GN PUB-N	14.14	15.12	34.09	ORE R-C 68CJ
CAN..NT..YELLOWKN(W)TUNDRA	CC PUB-N	14.36	15.23	34.46	ORE R-C 68CJ

SLAVE PROVINCE

CAN..NT..SLAVE P.(W)DISCOVER	PY PUB-N	13.65	14.69	33.03	ORE R-C 68CJ
CAN..NT..SLAVE P.(W)WALSH L.	GN PUB-N	13.75	14.73	33.08	ORE R-C 68CJ
CAN..NT..SLAVE P.(W)CAMERON	GN PUB-N	14.10	14.82	33.61	ORE R-C 68CJ
CAN..NT..SLAVE P.(W)INDIAN M	GN PUB-N	14.11	15.02	33.57	ORE R-C 68CJ

ONTARIO

2000 M.Y.

CAN.,ON,	(X)	COBALT	GN MTH-N	14.87	15.16	34.44	ORE K-F	65CJ
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2200 M.Y.

CAN.,ON,	(X)	GENEVA	L GN 3FI-N	14.002	14.870	33.716	ORE SDU	69L
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1600M.Y.-1000M.Y.

CAN.,ON,SUDBURY	(Y?)	T232FROO	GN PUB	15.78	15.62	36.09	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T235	GN PUB	15.99	15.57	36.50	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T518TREA	GN PJB	16.06	15.50	35.66	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T310MCKI	GN PUB	16.08	15.65	36.46	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T309MCKI	GN PUB	16.18	15.71	36.37	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T312MCKI	GN PUB	22.63	16.51	44.40	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T234MCKI	GN PUB	22.70	16.42	44.21	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T217GARS	GN PUB	22.71	16.48	44.16	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T233FROO	GN PUB	22.71	16.66	44.46	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T311MCKI	GN PUB	22.71	16.46	44.59	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T307HARD	GN PJB	22.95	16.58	52.07	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T303FALC	GN PUB	23.19	16.57	44.64	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T305FALC	GN PUB	23.39	16.72	44.77	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T306FALC	GN PUB	23.89	16.72	45.02	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T308FALC	GN PJB	23.99	16.83	45.16	ORE R-F	60I
CAN.,ON,SUDBURY	(Y?)	T211WORT	GN PUB	25.85	16.82	45.16	ORE R-F	60I

2700 M.Y.

* MASSIVE SULFIDE DEPOSIT

CAN.,ON,MANITOWA	(W)	MG38A	GN 3FI-N	13.211	14.401	33.069	ORE SDU	69L
CAN.,ON,RENA.	(W)	T-608UBC	GN MTH-N	13.29	14.50	33.01	ORE K-F	65CJ
CAN.,ON,KERR ADD	(W)	T-598UBC	GN MTH-N	13.67	14.62	33.37	ORE K-F	65CJ
CAN.,ON,KIRKLAND	(W)	T-519UBC	GN MTH-N	14.22	14.83	33.76	ORE K-F	65CJ
CAN.,ON,KERR ADD	(W)	T-601UBC	GN MTH-N	14.70	15.10	34.30	ORE K-F	65CJ
CAN.,ON,COBAL	(W)	T-466UBC	GN MTH-N	14.71	15.11	34.31	ORE K-F	65CJ
CAN.,ON,COBAL	(W)	T-489UBC	GN MTH-N	14.87	15.16	34.44	ORE K-F	65CJ

SUDBURY, ON

2200MY(SUBSEQUENT ALTERATION)

* MASSIVE SULFIDE DEPOSIT

CAN.,ON,ERRINGTO	(X)	T-359UBC	GN PUB-N	15.48	15.29	35.35	ORE U-R	64A
CAN.,ON,ERRINGTO	(X)	T-359UBC	GN PUB-N	15.50	15.32	35.36	ORE U-R	64A
CAN.,ON,ERRINGTO	(X)	T-358UBC	GN PUB-N	15.90	15.39	35.60	ORE U-R	64A
CAN.,ON,ERRINGTO	(X)	T-361UBC	PY PUB-N	16.17	15.43	35.66	ORE U-R	64A
CAN.,ON,BALFOUR	(X)	T-362UBC	PY PUB-N	17.74	15.63	35.58	ORE U-R	64A
CAN.,ON,HARDY	(X)	T-338UBC	PO PJB-N	18.69	15.71	42.20	ORE U-R	64A
CAN.,ON,HARDY	(X)	T-339UBC	PY PJB-N	20.59	15.98	42.81	ORE U-R	64A
CAN.,ON,FALCONBR	(X)	T-335UBC	GN PUB-N	23.45	16.38	44.32	MAR U-R	64A

QUEBEC

PHANEROZOIC

CAN.	QB	MILLER C(PHA)T544	GN PUB	18.07	15.60	37.73	ORE R-F 60I
CAN.	QB	MILLER C(PHA)T505	GN PUB	18.14	15.66	37.99	ORE R-F 60I
CAN.	QB	MILLER C(PHA)T804	GN PUB	18.15	15.66	37.98	ORE R-F 60I
CAN.	QB	MILLER C(PHA)T506	GN PUB	18.18	15.74	38.08	ORE R-F 60I

NORANDA AREA

2800 M.Y.

* MASSIVE SULFIDE DEPOSIT

CAN.	QB	VAL D'OR (W) T-661UBC	GN MTH-N	13.23	14.41	33.01	ORE K-F 65CJ
CAN.	QB	BARVUE (W) T-641UBC	GN MTH-N	13.27	14.43	33.05	ORE K-F 65CJ
CAN.	QB	VAL D'OR (W) T-661	GN PUB	13.34	14.59	33.30	ORE R-F 60I
CAN.	QB	CHICO. (W) T-463	GN PUB	13.39	14.59	33.21	ORE R-F 60I
CAN.	QB	NORAN. (W) T-1005	GN PUB	13.39	14.57	33.18	ORE R-F 60I
CAN.	QB	MAC-D. (W) T-1004	GN PUB	13.45	14.70	33.27	ORE R-F 60I
CAN.	QB	BARVUE (W) T-641	GN PUB	13.43	14.67	33.44	ORE R-F 60I
CAN.	QB	ELDER (W) T-848	GN PUB	13.50	14.69	33.27	ORE R-F 60I
CAN.	QB	ELDER (W) T-677	GN PUB	13.55	14.72	33.46	ORE R-F 60I

3000MY-2630MY-1920MY: PROTOSOURCE-SOURCE-MINERALIZATION

* MASSIVE SULFIDE DEPOSIT

CAN.	QB	QUEMONT (W) Q15	PO PUB-N	13.91	14.60	33.69	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) Q15	CH PUB-N	13.91	14.64	33.87	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) 9825	PO PUB-N	14.88	14.85	34.81	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) 9825	PY PUB-N	14.90	14.81	34.74	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) G15	PY PUB-N	14.94	14.81	35.12	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) Q45	PY PUB-N	15.07	14.89	35.33	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) Q45	PO PUB-N	15.95	15.05	36.13	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) 12-1803C	CH PUB-N	18.10	15.54	39.92	ORE C-G 73CJ
CAN.	QB	QUEMONT (W) B.T.QUE.	GN PUB-N	21.30	16.19	44.63	ORE C-G 73CJ

ANACON MINE

1400 M.Y.

CAN.	QB	ANACON (Y) T-214	GN PUB	16.40	15.47	36.04	ORE R-F 60I
CAN.	QB	ANACON (Y) T-561	GN PUB	16.41	15.50	36.06	ORE R-F 60I
CAN.	QB	ANACON (Y) T-559	GN PUB	16.46	15.56	36.19	ORE R-F 60I
CAN.	QB	ANACON (Y) T-560	GN PUB	16.45	15.55	36.15	ORE R-F 60I
CAN.	QB	ANACON (Y) T-40P	GN PUB	16.70	15.59	36.34	ORE R-F 60I

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OF

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

EUROPE

AUSTRIA

AUS	BLEIBERG (TRI) 75WD-2	GN	3FI-N	18.371	15.661	38.517	ORE
AUS	BLEIBERG (TRI) 75WD-1	GN	3FI-N	18.378	15.672	38.557	ORE
AUS	BLEIBERG (TRI) T575	GN	PUB	18.38	15.80	38.46	ORE R-F 60I
AUS	BLEIBERG (TRI) T586RUD.	GN	PUB	18.45	15.79	38.45	ORE R-F 60I
AUS	BLEIBERG (TRI) B1 ROLF S	GN	PUB	18.50	15.80	38.82	ORE R-F 60I
AUS	BLEIBERG (TRI) B10 RUDOL	GN	PUB	18.50	15.82	38.85	ORE R-F 60I
AUS	BLEIBERG (TRI) B2 RUDOLF	GN	PUB	18.54	15.84	39.02	ORE R-F 60I
AUS	BLEIBERG (TRI) B11 ANTON	GN	PUB	18.54	15.85	39.00	ORE R-F 60I

BULGARIA

BULG	SEDMOCI. (PHA)	GN	PUB	18.46	15.62	38.74	ORE MINC67EM
BULG	SEDMOCI. (PHA)	GN	PUB	18.62	15.66	38.90	ORE MINC67EM
BULG	SEDMOCI. (PHA)	GN	PUB	18.76	15.66	39.38	ORE MINC67EM
BULG	SEDMOCI. (PHA)	GN	PUB	18.84	15.72	39.54	ORE MINC67EM
BULG	SEDMOCI. (PHA)	GN	PUB	19.12	15.74	39.70	ORE MINC67EM

CZECHOSLOVAKIA

CZEC	ARDGWU (PHA)	GN	PUB	18.79	15.81	38.95	ORE SCHR65RU
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FINLAND

DATA LABELED KOUVO&VASSJ ARE LISTED THROUGH PERMISSION OF OLAVI KOUVO & MATTI VASSJOKI, GEOLOGICAL SURVEY OF FINLAND, YEAR IS YEAR OF ANALYS

1600 M.Y. (VEINS IN RAPAKIVI AREAS)

FIN	SW TAIVAS. (X-Y) G63	GN	GEL-N	15.968	15.388	35.540	ORE KOUV75X
FIN	W EURAJOKI (X-Y) G274	GN	GEL-N	16.037	15.381	35.764	ORE KOUV75X
FIN	W EURAJOKI (X-Y) G260	GN	GEL-N	16.067	15.403	35.724	ORE KOUV75X
FIN	W EURAJOKI (X-Y) G259	GN	GEL-N	16.071	15.417	35.856	ORE KOUV75X
FIN	SE KYMI (X-Y) G261	GN	GEL-N	16.073	15.420	35.757	ORE KOUV75X
FIN	SE ANJALA (X-Y) G141	GN	GEL-N	16.251	15.441	35.742	ORE KOUV75X
FIN	SE INKEROI. (X-Y) G62	GN	GEL-N	16.334	15.471	35.840	ORE KOUV74X
FIN	SW FINNST. (X-Y) G258	GN	GEL-N	16.470	15.458	35.924	ORE KOUV75X
FIN	SE LUUMAKI (X-Y) G3	GN	GEL-N	19.052	15.766	38.776	ORE KOUV74X
FIN	SE VIROJOKI (X-Y) G61A	GN	GEL-N	19.346	15.793	38.821	ORE KOUV75X
FIN	SE VIROJOKI (X-Y) G61B	GN	GEL-N	19.521	15.816	39.007	ORE KOUV75X
FIN	SE VIROJOKI (X-Y) G265B	GN	GEL-N	19.540	15.817	39.028	ORE KOUV75X
FIN	SE VIROJOKI (X-Y) G265A	GN	GEL-N	19.686	15.835	39.071	ORE KOUV75X
FIN	SW LO-GREN (X-Y) G250	GN	GEL-N	21.222	16.037	40.153	ORE KOUV75X
FIN	SW SILVER. (X-Y) G257	GN	GEL-N	21.676	16.112	40.385	ORE KOUV75X

1800 M.Y.

FIN..SW..KANKAAN.(X)G74	GN P3S-R	15.17	15.21	35.16	ORE	KOUV65X
FIN..C..KAIPOLA (X)G100	GN P3S-R	15.39	15.22	35.05	ORE	KOUV65X
FIN..SW..KANKAAN.(X)G70	GN P3S-R	15.42	15.29	35.23	ORE	KOUV65X
FIN..C..HAMEENK.(X)G118	GN P3S-R	15.45	15.35	35.49	ORE	KOUV65X
FIN..C..TOHOLAM.(X)G95	GN GEL-N	15.452	15.198	35.006	ORE	KOUV75X
FIN..C..MUURAME (X)G98	GN P3S-R	15.47	15.22	34.98	ORE	KOUV65X
FIN..C..TOHOLAM.(X)G96	GN GEL-N	15.471	15.224	35.093	ORE	KOUV75X
FIN..C..SAARIJA.(X)G83	GN P3S-R	15.54	15.33	35.40	ORE	KOUV65X
FIN..C..VIITASA.(X)G15	GN GEL-N	15.561	15.279	35.148	ORE	KOUV75X
FIN..C..KORPILAH(X)G99	GN P3S-R	15.54	15.35	35.48	ORE	KOUV65X
FIN..C..PIHTIPUD(X)G109	GN P3S-R	15.56	15.29	35.20	ORE	KOUV65X
FIN..C..KURU (X)G45	GN P3S-R	15.57	15.37	35.54	ORE	KOUV65X
FIN..C..PIHTIPUD(X)G16	GN 3FI-N	15.577	15.287	35.164	ORE	
FIN..C..SAARIJA.(X)G84	GN P3S-R	15.59	15.37	35.38	ORE	KOUV64X
FIN..C..SAARIJA.(X)G85	GN P3S-R	15.60	15.40	35.45	ORE	KOUV64X
FIN..C..KEURUU (X)G122	GN P3S-R	15.61	15.41	35.54	ORE	KOUV65X
FIN..C..JYVASKY.(X)G97	GN P3S-R	15.63	15.43	35.70	ORE	KOUV65X
FIN..SW..LAMMI (X)G52	GN P3S-R	15.73	15.37	35.56	ORE	KOUV65X
FIN..S..PAKILA (X)HELS.	GN PUB	15.76	15.48	35.63	ORE	KOUV62X
FIN..SW..METSAMO.(X)KISKO	GN PJB	15.77	15.47	35.61	ORE	KOUV62X
FIN..SW..ATTU (X)PARGAS	GN PUB	15.80	15.48	35.64	ORE	KOUV62X
FIN..WC..KORSNAS (X)	GN PUB	15.81	15.47	35.65	ORE	KOUV62X
FIN..SW..LOHJA (X)G159	GN P3S-R	15.81	15.49	35.60	ORE	KOUV68X
FIN..SW..ORIJARVI(X)KISKO	GN PJB	15.82	15.50	35.67	ORE	KOUV62X
FIN..SE..LEMI (X)G7	GN GEL-N	15.719	15.373	35.276	GAL	KOUV75X
FIN..SE..PERNAJA (X)G266	GN GEL-N	15.802	15.388	35.364	ORE	KOUV75X
FIN..SW..SOTTUNGA(X)G1B	GN GEL-N	22.016	16.149	39.075	ORE	KOUV75X
FIN..SW..SOTTUNGS(X)G1A	GN GEL-N	22.204	16.176	38.988	ORE	KOUV75X

2000 M.Y.

FIN..EC..PETROVA.(X)G28	GN P3S-R	14.79	15.00	34.34	ORE	KOUV61X
FIN..EC..TOHMAJA.(X)G75	GN P3S-R	14.92	15.15	34.45	ORE	KOUV63X
FIN..C..KARSAMA.(X)G144	GN P3S-R	14.94	15.28	35.20	ORE	KOUV65X
FIN..EC..TOHMAJA.(X)G82	GN P3S-R	15.01	15.22	35.00	ORE	KOUV65X
FIN..EC..PATTIJOK(X)G27	GN P3S-R	15.02	15.11	34.91	ORE	KOUV61X
FIN..WC..VIHANTI (X)G26A	GN P3S-R	15.08	15.24	35.31	ORE	KOUV61X
FIN..C..KEITELE (X)G57	GN P3S-R	15.11	15.11	34.68	ORE	KOUV64X
FIN..WC..VIHANTI (X)G91	GN P3S-R	15.11	15.15	34.98	ORE	KOUV64X
FIN..C..PYHASAL.(X)G25B	GN 3FI-N	15.111	15.147	34.835	ORE	
FIN..EC..PIELAVES(X)G106	GN P3S-R	15.12	15.15	34.86	ORE	KOUV65X
FIN..WC..VIHANTI (X)G89	GN P3S-R	15.14	15.18	34.84	ORE	KOUV64X
FIN..C..KEITELE (X)G58B	GN P3S-R	15.18	15.25	35.04	ORE	KOUV64X
FIN..C..RUNK AUS.(X)G153	GN P3S-R	15.18	15.46	35.60	ORE	KOUV68X
FIN..WC..VIHANTI (X)G26B	GN P3S-R	15.20	15.29	35.54	ORE	KOUV61X
FIN..WC..VIHANTI (X)G87	GN P3S-R	15.20	15.32	35.43	ORE	KOUV64X
FIN..C..HYRYNSA.(X)G149	GN P3S-R	15.20	15.41	35.30	ORE	KOUV68X
FIN..EC..PIELAVS (X)G147	GN P3S-R	15.21	15.30	34.91	ORE	KOUV65X
FIN..C..KEITELE (X)G58A	GN P3S-R	15.22	15.27	35.16	ORE	KOUV64X
FIN..WC..VIHANTI (X)G92	GN P3S-R	15.25	15.30	35.33	ORE	KOUV64X
FIN..WC..VIHANTI (X)G93	GN P3S-R	15.25	15.33	35.43	ORE	KOUV64X
FIN..EC..PALTAMO (X)G152	GN P3S-R	15.27	15.43	35.45	ORE	KOUV68X

FIN.	N.	KITTILA (X)	G121	GN	PBS-R	15.28	15.29	35.32	ORE	KOUV65X
FIN.	WC	VIHANTI (X)	G90	GN	PBS-R	15.28	15.34	35.35	ORE	KOUV64X
FIN.	EC	PYHASELKA (X)	G41	GN	PBS-R	15.29	15.33	35.06	ORE	KOUV65X
FIN.	WC	VIHANTI (X)	G86	GN	PBS-R	15.29	15.34	35.50	ORE	KOUV64X
FIN.	WC	VIHANTI (X)	G129	GN	PBS-R	15.29	15.40	35.72	ORE	KOUV65X
FIN.	WC	YLI-II (X)	G128	GN	PBS-R	15.32	15.66	35.86	ORE	KOUV65X

2200 M.Y.

FIN.	EC	OUTOKUM. (X)	G30A	GN	3FI-N	14.731	15.016	34.476	ORE	
FIN.	EC	OUTOKUM. (X)	1/KD5B	PY	GEL-N	16.254	15.268	36.482	ORE	VASS75X
FIN.	EC	OUTOKUM. (X)	KA4	PY	GEL-N	16.294	15.339	35.185	ORE	VASS75X
FIN.	EC	OUTOKUM. (X)	KD5A	PY	GEL-N	16.316	15.291	35.568	ORE	VASS75X
FIN.	EC	OUTOKUM. (X)	MDP	PY	GEL-N	17.468	15.368	35.324	ORE	VASS75X
FIN.	EC	OUTOKUM. (X)	1/KBP2A	PY	GEL-N	18.007	15.450	35.425	ORE	VASS75X

FRANCE

STRATIFORM DEPOSITS IN THE SOUTH OF THE CENTRAL MASSIF

FRA.	CM	(MES)ST. SEDAS	GN	PUB	18.57	15.69	39.11	ORE	LSA	71F
FRA.	CM	(MES)FIGEAC	GN	PJB	18.66	15.79	39.29	ORE	LSA	71F
FRA.	CM	(MES)DEZ/ESFA	GN	PUB	18.38	15.65	38.85	ORE	LSA	71F
FRA.	CM	(MES)PAYS BUE	GN	PJB	18.36	15.60	39.76	ORE	LSA	71F
FRA.	CM	MALINES (MES)TB330	GN	PUB	18.31	15.65	38.47	ORE	LSA	71F
FRA.	CM	MALINES (MES)0016	GN	PUB	18.29	15.65	38.37	ORE	LSA	71F

GERMANY

PHANEROZOIC

GER.	NW	HELPUF (TRI)TROCHITE	GN	PUB	18.72	15.75	38.49	ORE	LENZ72TJ
GER.	NW	KULF (TRI)TROCHITE	GN	PUB	18.34	15.28	38.05	ORE	LENZ72TJ
GER.	E	SPREMB. (PER)11AVG.	GN	PUB	18.28	15.75	38.50	ORE	KBZC64TW
GER.	E	MANSFELD (PER)9AVG.	GN	PJB	18.17	15.80	38.37	ORE	KBZC64TW
GER.	W	ZECH/KAR (PER)7AVG.	GN	PUB	18.15	15.58	38.17	ORE	LENZ72TJ
GER.	NW	HUGGEL (PER)662ZECHS	GN	PJB	18.10	15.40	37.68	ORE	LENZ72TJ
GER.	NW	SCHAFBE. (PER)629ZECHS	GN	PUB	18.19	15.58	38.06	ORE	LENZ72TJ
GER.	NW	DEBLING. (PER)5118ZECH	GN	PUB	18.38	15.68	38.46	ORE	LENZ72TJ
GER.	NW	IBBENBU. (PER)5088ZECH	GN	PUB	18.40	15.64	38.28	ORE	LENZ72TJ
GER.	NW	REHDEN15 (PER)5090K/2	GN	PUB	18.26	15.58	38.23	ORE	LENZ72TJ
GER.	NW	HOYA 21 (PER)5089KAR3	GN	PJB	18.16	15.56	38.27	ORE	LENZ72TJ
GER.	NW	BOCKRAD. (PER)607KARB0	GN	PUB	18.26	15.64	38.20	ORE	LENZ72TJ
GER.	LA	RAMSBECK (CAR)74W-1	GN	3FI-N	18.233	15.617	38.196	ORE	
GER.	LA	BAD GRUN (DEV)74W-2	GN	3FI-N	18.459	15.636	38.504	ORE	
GER.	DU	MAUBACH (PHA)0X-100	GN	PUB	18.22	15.44	37.96	ORE	MUOR62RS
GER.	SI	TURANDOT (PHA)0X-99	GN	PUB	18.11	15.46	37.89	ORE	MUOR62FS

RAMMELSBURG

GER. HZ RAMMELSB(DEV)241157	GN 3FI-N	18.242	15.611	38.195	ORE
GER. HZ RAMMELSB(DEV)24159	GN 3FI-N	18.257	15.629	38.215	ORE
GER. HZ RAMMELSB(DEV)1W74G	GN 3FI-N	18.233	15.609	38.171	ORE
GER. HZ RAMMELSB(DEV)G-17	GN PUB	18.13	15.58	38.20	ORE R-F 60I
GER. HZ RAMMELSB(DEV)G-16	GN PUB	18.17	15.57	38.22	ORE R-F 60I
GER. WU MEGGEN (DEV)75W-3	GN 3FI-N	18.197	15.606	38.123	ORE
GER. WU MEGGEN (DEV)G-24	GN PUB	18.37	15.70	38.60	ORE R-F 60I
GER. WU MEGGEN (DEV)G-2	GN PUB	18.38	15.68	38.49	ORE R-F 60I
GER. WU MEGGEN (DEV)G-3	GN PUB	18.42	15.74	38.62	ORE R-F 60I

GREAT BRITAIN

EIRE

SOUTHEAST IRELAND

G.B. EI SE IREL.(PHA)OX-86	GN PUB	18.30	15.53	38.16	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-85	GN PUB	18.29	15.56	38.25	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-87	GN PUB	18.24	15.53	38.17	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-90	GN PUB	18.12	15.59	38.13	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-89	GN PUB	18.04	15.55	38.04	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-88	GN PUB	18.02	15.53	37.92	ORE MOOR62RS
G.B. EI SE IREL.(PHA)OX-91	GN PUB	17.99	15.49	37.83	ORE MOOR62RS

WESTERN IRELAND

G.B. EI W. IRELA.(PHA)OX-92	GN PUB	18.27	15.60	38.19	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-98	GN PUB	17.91	15.37	37.52	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-93	GN PUB	17.89	15.35	37.66	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-95	GN PUB	17.47	15.34	37.15	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-96	GN PUB	17.46	15.40	36.96	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-97	GN PUB	17.45	15.30	36.82	ORE MOOR62RS
G.B. EI W. IRELA.(PHA)OX-94	GN PUB	17.30	15.44	37.13	ORE MOOR62RS

ENGLAND

ISLE OF MAN

G.B. EN IS.MAN (PHA)OX-26	GN PUB	18.30	15.52	38.22	ORE MOOR62RS
G.B. EN IS.MAN (PHA)OX-27	GN PUB	18.28	15.51	38.30	ORE MOOR62RS

LAKE DISTRICT

G.B. EN L.DISTR.(PHA)OX-32	GN PUB	18.34	15.54	38.22	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-41	GN PUB	18.30	15.60	38.36	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-31	GN PUB	18.30	15.48	38.10	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-34	GN PUB	18.29	15.51	38.20	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-40	GN PUB	18.27	15.59	38.35	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-33	GN PUB	18.26	15.49	38.24	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-35	GN PUB	18.23	15.52	37.92	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-37	GN PUB	18.22	15.54	38.07	ORE MOOR62RS

G.B. EN L.DISTR.(PHA)OX-38	GN PUB	18.18	15.55	38.10	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-36	GN PUB	18.16	15.50	37.95	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-42	GN PUB	18.15	15.55	38.03	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-43	GN PUB	18.15	15.53	38.10	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-39	GN PUB	18.10	15.47	37.89	ORE MOOR62RS
G.B. EN L.DISTR.(PHA)OX-44	GN PUB	18.06	15.58	38.04	ORE MOOR62RS

SHROPSHIRE

G.B. EN SHROPSH.(PHA)OX-15	GN PUB	18.38	15.61	38.32	ORE MOOR62RS
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NORTH MIDLANDS

G.B. EN N.MIDLA.(PHA)OX-24	GN PUB	18.48	15.62	38.48	ORE MOOR62RS
G.B. EN N.MIDLA.(PHA)OX-23	GN PUB	18.42	15.57	38.39	ORE MOOR62RS
G.B. EN N.MIDLA.(PHA)OX-25	GN PUB	18.24	15.48	38.01	ORE MOOR62RS

SOUTHERN PENNINES, DERBYSHIRE

G.B. EN S.PENNI.(PHA)OX-22	GN PUB	18.42	15.56	38.27	ORE MOOR62RS
G.B. EN S.PENNI.(PHA)OX-20	GN PUB	18.42	15.52	38.27	ORE MOOR62RS
G.B. EN S.PENNI.(PHA)OX-21	GN PUB	18.34	15.54	38.22	ORE MOOR62RS
G.B. EN S.PENNI.(PHA)OX-19	GN PUB	18.33	15.50	38.01	ORE MOOR62RS

MENDIP HILLS, SOMERSET

G.B. EN SOMERSET(PHA)OX-18	GN PUB	18.28	15.53	38.18	ORE MOOR62RS
G.B. EN SOMERSET(PHA)OX-16	GN PUB	18.32	15.55	38.28	ORE MOOR62RS
G.B. EN SOMERSET(PHA)OX-17	GN PUB	18.18	15.46	37.97	ORE MOOR62RS

NORTHERN PENNINES AND NORTHEAST ENGLAND

G.B. EN N.PENNI.(PHA)OX-9	GN PUB	18.25	15.56	38.19	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-11	GN PUB	18.24	15.53	38.11	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-14	GN PUB	18.20	15.54	38.15	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-10	GN PUB	18.20	15.49	37.93	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-8	GN PUB	18.19	15.50	38.04	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-13	GN PUB	18.12	15.46	37.87	ORE MOOR62RS
G.B. EN N.PENNI.(PHA)OX-12	GN PUB	18.07	15.43	37.91	ORE MOOR62RS

NORTH DEVON

G.B. EN N.DEVON (PHA)OX-30	GN PUB	18.05	15.49	37.98	ORE MOOR62RS
G.B. EN N.DEVON (PHA)OX-28	GN PUB	18.05	15.49	37.85	ORE MOOR62RS
G.B. EN N.DEVON (PHA)OX-29	GN PUB	18.05	15.48	37.78	ORE MOOR62RS

CORNWALL-DEVON

G.B. EN CORNWALL(PHA)OX-7	GN PUB	18.25	15.55	38.14	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-6	GN PUB	18.25	15.52	38.13	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-5	GN PUB	18.24	15.53	38.01	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-4	GN PUB	18.24	15.52	37.96	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-3	GN PUB	18.20	15.49	37.88	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-2	GN PUB	18.13	15.47	37.86	ORE MOOR62RS
G.B. EN CORNWALL(PHA)OX-1	GN PUB	18.12	15.45	37.89	ORE MOOR62RS

NORTH IRELAND

G.B., NI, CO. DOWN (PHA) OX-83	GN PUB	18.07	15.43	37.75	ORE MOOR62RS
G.B., NI, CO. DOWN (PHA) OX-84	GN PUB	18.00	15.50	38.01	ORE MOOR62RS

SCOTLAND

ABERDEENSHIRE

G.B., SC, ABERDEE. (PHA) OX-69	GN PUB	17.87	15.44	37.69	ORE MOOR62RS
G.B., SC, ABERDEE. (PHA) OX-67	GN PUB	17.76	15.39	37.48	ORE MOOR62RS
G.B., SC, ABERDEE. (PHA) OX-68	GN PUB	17.74	15.39	37.50	ORE MOOR62RS

ARGYLLSHIRE

G.B., SC, ARGYLLS. (PHA) OX-62	GN PUB	18.13	15.50	37.95	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-63	GN PUB	18.13	15.50	37.83	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-61	GN PUB	18.04	15.38	37.53	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-66	GN PUB	17.89	15.30	37.64	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-60	GN PUB	17.86	15.29	37.29	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-59	GN PUB	17.85	15.34	37.39	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-65	GN PUB	17.84	15.31	37.60	ORE MOOR62RS
G.B., SC, ARGYLLS. (PHA) OX-64	GN PUB	17.78	15.33	37.42	ORE MOOR62RS

CENTRAL HIGHLANDS

G.B., SC, C. HIGHL. (PHA) OX-71	GN PUB	17.87	15.37	37.40	ORE MOOR62RS
G.B., SC, C. HIGHL. (PHA) OX-72	GN PUB	17.67	15.39	37.32	ORE MOOR62RS
G.B., SC, C. HIGHL. (PHA) OX-73	GN PUB	17.55	15.32	37.25	ORE MOOR62RS
G.B., SC, C. HIGHL. (PHA) OX-74	GN PUB	17.52	15.31	37.15	ORE MOOR62RS
G.B., SC, C. HIGHL. (PHA) OX-75	GN PUB	17.12	15.23	37.90	ORE MOOR62RS

EAST INVERNESS-SHIRE, MORAYSHIRE

G.B., SC, E. INVER. (PHA) OX-80	GN PUB	18.32	15.45	38.18	ORE MOOR62RS
G.B., SC, E. INVER. (PHA) OX-82	GN PUB	18.23	15.42	38.24	ORE MOOR62RS
G.B., SC, E. INVER. (PHA) OX-81	GN PUB	18.20	15.41	38.17	ORE MOOR62RS

NORTHWEST HIGHLANDS

G.B., SC, NW HIGH. (PHA) OX-77	GN PUB	16.96	15.04	38.87	ORE MOOR62RS
G.B., SC, NW HIGH. (PHA) OX-76	GN PUB	16.96	15.04	38.53	ORE MOOR62RS
G.B., SC, NW HIGH. (PHA) OX-78	GN PUB	16.96	15.17	37.79	ORE MOOR62RS
G.B., SC, NW HIGH. (PHA) OX-79	GN PUB	16.88	15.21	36.36	ORE MOOR62RS

SUTHERLANDSHIRE

G.B., SC, SUTHERL. (PHA) OX-70	GN PUB	17.64	15.29	37.29	ORE MOOR62RS
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SOUTHERN UPLANDS

G.B., SC, S. UPLAND (PHA) OX-56	GN PUB	18.09	15.47	37.91	ORE MOOR62RS
G.B., SC, S. UPLAND (PHA) OX-57	GN PUB	18.09	15.47	37.81	ORE MOOR62RS
G.B., SC, S. UPLAND (PHA) OX-58	GN PUB	17.98	15.40	37.67	ORE MOOR62RS

WALES

NORTH WALES

G.B., WA, N. WALES (PHA) OX-45	GN PUB	18.38	15.52	38.35	ORE MOOR62RS
G.B., WA, N. WALES (PHA) OX-47	GN PUB	18.30	15.58	38.22	ORE MOOR62RS
G.B., WA, N. WALES (PHA) OX-46	GN PUB	18.24	15.55	38.00	ORE MOOR62RS

G.B. WA N.WALES (PHA)OX-54	GN PJB	18.21	15.60	38.11	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-51	GN PJB	18.20	15.61	38.08	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-50	GN PUB	18.18	15.61	38.40	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-52	GN PUB	18.17	15.63	38.25	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-49	GN PUB	18.15	15.63	38.11	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-48	GN PUB	18.10	15.50	37.98	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-55	GN PUB	18.03	15.47	37.29	ORE MOOR62RS
G.B. WA N.WALES (PHA)OX-53	GN PJB	18.01	15.51	37.90	ORE MOOR62RS

GREECE
MESOZOIC-CENOZOIC

GRE. LA ZN MINES(M-C)C61	GN PJB	18.80	15.67	38.99	ORE R-F 60I
GRE. LA PLAKA (M-C)853-110B	GN 3FI-N	18.820	15.658	38.774	ORE BSMB75AC
GRE. LA KAMARISA(M-C)863-135A	GN 3FI-N	18.822	15.663	38.760	ORE BSMB75AC
GRE. LA PLAKA (M-C)851-145B	GN 3FI-N	18.831	15.657	38.799	ORE BSMB75AC
GRE. LA PLAKA (M-C)852-110A	GN 3FI-N	18.831	15.663	38.802	ORE BSMB75AC
GRE. LA PLAKA (M-C)855-110B	GN 3FI-N	18.832	15.669	38.864	ORE BSMB75AC
GRE. LA ESPERAN.(M-C)854-96A	GN 3FI-N	18.833	15.671	38.816	ORE BSMB75AC
GRE. LA KAMARISA(M-C)864-135B	GN 3FI-N	18.842	15.670	38.803	ORE BSMB75AC
GRE. LA ESPERAN.(M-C)856-103A	GN 3FI-N	18.846	15.670	38.823	ORE BSMB75AC
GRE. LA PLAKA (M-C)862-80B	GN 3FI-N	18.849	15.683	38.855	ORE BSMB75AC
GRE. LA PLAKA (M-C)861-135A	GN 3FI-N	18.850	15.671	38.813	ORE BSMB75AC
GRE. LA ESPERAN.(M-C)857-103B	GN 3FI-N	18.851	15.671	38.845	ORE BSMB75AC
GRE. LA PLAKA (M-C)858-85A	GN 3FI-N	18.857	15.674	38.838	ORE BSMB75AC
GRE. LA KAMARISA(M-C)866-104A	GN 3FI-N	18.864	15.673	38.823	ORE BSMB75AC
GRE. LA PLAKA (M-C)850-145A	GN 3FI-N	18.866	15.683	38.864	ORE BSMB75AC
GRE. LA PLAKA (M-C)859-85B	GN 3FI-N	18.874	15.673	38.863	ORE BSMB75AC
GRE. LA KAMARISA(M-C)865-135C	GN 3FI-N	18.875	15.698	38.844	ORE BSMB75AC
GRE. LA PLAKA (M-C)860-85C	GN 3FI-N	18.877	15.686	38.882	ORE BSMB75AC
GRE. LA (PHA)T552	GN PUB	18.99	15.90	39.13	ORE R-F 60I

HUNGARY
PHANEROZOIC

HUN. SCHEMNI.(PHA)C31	PJB	18.96	15.73	39.27	GAL R-F 60I
BORZSONY MOUNTAIN					
HUN. BO NAGYBOR.(CEN)K-34/A	GN PJB	18.85	15.77	38.92	ORE KOVA66HG
HUN. BO NAGYBOR.(CEN)K-34	GN PUB	18.80	15.69	38.76	ORE KOVA66HG
HUN. BO NAGYBOR.(CEN)K-54	GN PUB	18.64	15.76	38.84	ORE KOVA66HG
MATRA MOUNTAIN					
HUN. MA GYONGYO.(CEN)K-19	GN PJB	18.69	15.76	38.27	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-12	GN PJB	18.66	15.78	39.29	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-20	GN PUB	18.66	15.78	38.81	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-11	GN PUB	18.65	15.85	38.85	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-17	GN PJB	18.65	15.86	38.81	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-16	GN PUB	18.59	15.80	38.64	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-15	GN PJB	18.55	15.63	38.72	ORE KOVA66HG
HUN. MA GYONGYO.(CEN)K-13	GN PUB	18.54	15.68	38.94	ORE KOVA66HG

HUN.	MA	GYONGYO.	(CEN)K-14	GN	PJB	18.52	15.72	38.87	ORE	KOVA66HG
HUN.	MA	NAGYLIP.	(CEN)K-31	GN	PUB	18.78	15.73	38.51	ORE	KOVA66HG
HUN.	MA	NAGYLIP.	(CEN)K-31/A	GN	PJB	18.71	15.78	38.93	ORE	KOVA66HG
HUN.	MA	PARAD	(CEN)K-91	GN	PJB	18.75	15.79	38.95	ORE	KOVA66HG
HUN.	MA	PARAD	(CEN)K-90	GN	PJB	18.61	15.74	38.68	ORE	KOVA66HG

MECSEK MOUNTAINS

HUN.	ME	ERDOSME.	(PHA)K-8	GN	PUB	18.34	15.77	38.69	ORE	KOVA66HG
HUN.	ME	ERDOSME.	(PHA)K-35	GN	PJB	18.32	15.63	38.42	ORE	KOVA66HG

RUDABANYA IRON ORE BODY

HUN.	NE	RUDABAN.	(MES)K-85	GN	PUB	18.34	15.71	38.33	ORE	KOVA66HG
HUN.	NE	RUDABAN.	(MES)K-46	GN	PJB	18.33	15.80	38.12	ORE	KOVA66HG

TOKAJ MOUNTAIN

HUN.	TO	TELKIBA.	(CEN)K-93	GN	PUB	21.09	15.80	38.28	ORE	KOVA66HG
HUN.	TO	FELSOE.	(CEN)K-94	GN	PUB	20.56	15.83	38.32	ORE	KOVA66HG
HUN.	TO	TELKIBA.	(CEN)K-87	GN	PUB	18.71	15.79	38.59	ORE	KOVA66HG

VELENCE MOUNTAINS

HUN.	VE	KORAKAS.	(PHA)K-5	GN	PJB	18.42	15.77	38.79	ORE	KOVA66HG
HUN.	VE	KORAKAS.	(PHA)K-69	GN	PUB	18.34	15.83	39.25	ORE	KOVA66HG
HUN.	VE	KORAKAS.	(PHA)K-70	GN	PJB	18.33	15.87	38.59	ORE	KOVA66HG
HUN.	VE	KORAKAS.	(PHA)K-4	GN	PUB	18.28	15.67	38.56	ORE	KOVA66HG
HUN.	VE	KORAKAS.	(PHA)K-6	GN	PJB	18.27	15.64	37.76	ORE	KOVA66HG
HUN.	VE	SZUZVAR	(PHA)K-73	GN	PUB	18.43	15.82	38.48	ORE	KOVA66HG
HUN.	VE	SZUZVAR	(PHA)K-26	GN	PUB	18.41	15.75	38.24	ORE	KOVA66HG
HUN.	VE	SZUZVAR	(PHA)K-7	GN	PJB	18.37	15.79	37.91	ORE	KOVA66HG
HUN.	VE	SZUZVAR	(PHA)K-74	GN	PUB	18.29	15.74	38.50	ORE	KOVA66HG
HUN.	VE	SAS-HILL	(PHA)K-67	GN	PUB	18.36	15.76	38.60	ORE	KOVA66HG
HUN.	VE	SZAR-HIL	(PHA)K-32	GN	PUB	18.48	15.71	38.28	ORE	KOVA66HG
HUN.	VE	SZAR-HIL	(PHA)K-3	GN	PUB	18.35	15.70	38.70	ORE	KOVA66HG
HUN.	VE	SZAR-HIL	(PHA)K-45	GN	PUB	18.34	15.80	38.10	ORE	KOVA66HG

KUPFERSCHIEFER MARL SLATE PERMIAN

G.B.	SC	KUPFER.	(PER)THICKLEY	GN	3FI-N	18.245	15.572	38.255	ORE	
GER.	HZ	KUPFER.	(PER)HUGGEL	GN	3FI-N	18.247	15.603	38.274	ORE	
GER.		KUPFER.	(PER)LINSBURG	GN	3FI-N	18.277	15.605	38.270	ORE	
GER.		KUPFER.	(PER)HUNDELSH	GN	3FI-N	18.339	15.607	38.298	ORE	
GER.		KUPFER.	(PER)MANSFELD	GN	3FI-N	18.353	15.620	38.370	ORE	
DDR		KUPFER.	(PER)863	GN	3FI-N	18.374	15.614	38.367	ORE	
GER.		KUPFER.	(PER)WAIKENRI	GN	3FI-N	18.437	15.621	38.362	ORE	
GER.		KUPFER.	(PER)GELSTERT	GN	3FI-N	18.453	15.627	38.494	ORE	
DDR		KUPFER.	(PER)293	GN	3FI-N	18.535	15.628	38.521	ORE	
HOLL		KUPFER.	(PER)C2-S2C	WR	3FI-N	18.585	15.615	38.467	SED	
POL.		KUPFER.	(PER)RIDGE	GN	GEL-N	18.790	15.620	38.417	ORE	

NORWAY

PRECAMBRIAN

NOR. AA, ETTEDAL. (X-Y)N1	GN PUB	15.79	14.99	34.71	ORE M-V 63NG
NOR. FI, JAKOFSE. (Y)N3	GN PUB	16.91	15.25	36.68	ORE M-V 63NG
NOR. TE, N.BYGST. (Y)N2	GN PUB	16.98	15.28	36.08	ORE M-V 63NG
NOR. GI, NIINGEN (Z?)N16	GN PUB	17.52	15.49	36.96	ORE M-V 63NG
NOR. NT, L.TRCMS. (Z?)N4	GN PUB	17.78	15.37	37.29	ORE M-V 63NG
NOR. OF, VILLDAL. (Z?)N15	GN PUB	17.80	15.64	37.55	ORE M-V 63NG
NOR. OF, DJUPVIK (Z?)N17	GN PUB	17.98	15.85	38.16	ORE M-V 63NG

PHANEROZOIC

NOR. ND, RAVNASEN (PHA)N5	GN PUB	18.02	15.51	37.47	ORE M-V 63NG
NOR. ND, MOFJELL (PHA)N6	GN PUB	18.04	15.47	37.73	ORE M-V 63NG
NOR. SU, JAKOBSB. (PHA)N7	GN PUB	18.11	15.54	37.61	ORE M-V 63NG
NOR. ND, KIRKERO. (PHA)N11	GN PUB	18.18	15.46	37.77	ORE M-V 63NG
NOR. GR, MUTTA (PHA)N27	GN PUB	18.22	15.49	38.18	ORE M-V 63NG
NOR. HA, KRAEKKJ. (PHA)N18	GN PUB	18.29	15.54	37.62	ORE M-V 63NG
NOR. FI, GURROGA. (PHA)N25	GN PUB	18.30	15.73	38.39	ORE M-V 63NG
NOR. TR, MOSBERG. (PHA)N9	GN PUB	18.35	15.71	38.15	ORE M-V 63NG
NOR. ND, BLEIKVA. (PHA)N10B	GN PUB	18.38	15.51	37.95	ORE M-V 63NG
NOR. GR, SKJERPE. (PHA)N26	GN PUB	18.43	15.63	38.40	ORE M-V 63NG
NOR. ND, BLEIKVA. (PHA)N10A	GN PUB	18.45	15.56	38.03	ORE M-V 63NG
NOR. ND, BLEIKVA. (PHA)N10C	GN PUB	18.46	15.51	37.92	ORE M-V 63NG
NOR. BA, BJORKAS. (PHA)N8	GN PUB	18.48	15.77	38.39	ORE M-V 63NG
NOR. DR, DALEN (PHA)N28	GN PUB	18.53	15.50	37.96	ORE M-V 63NG
NOR. ND, HUSVIK (PHA)N12	GN PUB	18.54	15.56	38.10	ORE M-V 63NG
NOR. LI, BO (PHA)N29	GN PUB	18.62	15.52	38.01	ORE M-V 63NG
NOR. ND, MALMHAU. (PHA)N13	GN PUB	18.69	15.59	38.04	ORE M-V 63NG
NOR. ND, SVENNIN. (PHA)N14	GN PUB	19.12	15.70	38.09	ORE M-V 63NG
NOR. FE, TUFSSING. (PHA)N20	GN PUB	20.00	15.69	39.08	ORE M-V 63NG
NOR. MJ, BRASTAD. (PHA)N22	GN PUB	20.37	15.68	39.17	ORE M-V 63NG
NOR. OS, DALBO (PHA)N19	GN PUB	20.69	15.75	39.54	ORE M-V 63NG
NOR. KO, GOT.HUL. (PHA)N31	GN PUB	20.70	15.82	39.42	ORE M-V 63NG
NOR. KO, BRATTES. (PHA)N32	GN PUB	20.98	15.61	39.67	ORE M-V 63NG
NOR. EN, LOVBEEK. (PHA)N21	GN PUB	21.29	15.68	40.03	ORE M-V 63NG
NOR. KO, KRONLOK. (PHA)N30	GN PUB	21.38	15.69	39.21	ORE M-V 63NG
NOR. BM, TRAK (PHA)N33	GN PUB	21.67	15.73	39.55	ORE M-V 63NG
NOR. NR, KATTERA. (PHA)N24	GN PUB	22.89	15.98	42.36	ORE M-V 63NG

POLAND

PHANEROZOIC

CRAKOVIA-SILESIA

POL. CS, CRAC.SIL (PHA)VA-P1	GN 3FI-N	18.280	15.609	38.271	ORE
POL. CS, CRAC.SIL (PHA)1J/EH261	GN 3FI-N	18.331	15.626	38.372	ORE
POL. CS, CRAC.SIL (PHA)OK-P3	GN 3FI-N	18.405	15.613	38.404	ORE
POL. CS, CRAC.SIL (PHA)MR-P-2	GN 3FI-N	18.406	15.599	38.410	ORE
POL. CS, CRAC.SIL (PHA)WK-P9	GN 3FI-N	18.412	15.619	38.412	ORE
POL. CS, CRAC.SIL (PHA)6J/EH72<	GN 3FI-N	18.412	15.633	38.419	ORE
POL. CS, CRAC.SIL (PHA)SIEWIERZ	GN 3FI-N	18.415	15.627	38.421	ORE
POL. CS, CRAC.SIL (PHA)CL-P1	GN 3FI-N	18.419	15.625	38.424	ORE
POL. CS, CRAC.SIL (PHA)BR-P-6	GN 3FI-N	18.422	15.609	38.417	ORE
POL. CS, CRAC.SIL (PHA)MA-P-4	GN 3FI-N	18.423	15.613	38.424	ORE

POL.,CS,CRAC.SIL(PHA)TR-P25	GN	3FI-N	18.425	15.611	38.426	ORE
POL.,CS,CRAC.SIL(PHA)ZAWIERCI	GN	3FI-N	18.427	15.634	38.434	ORE
POL.,CS,CRAC.SIL(PHA)NOD-P-2	GN	3FI-N	18.438	15.615	38.434	ORE
POL.,CS,CRAC.SIL(PHA)CO-P1	GN	3FI-N	18.444	15.619	38.418	ORE
POL.,SI,FRIEDRI.(PHA)B8	GN	PUB	18.60	15.79	38.98	ORE R-F 60I

HOLY CROSS

POL.,HC,PIERZCH.(PHA)P-33	GN	3FI-N	18.408	15.606	38.412	ORE
POL.,HC,MOJCZA (PHA)P-3	GN	3FI-N	18.382	15.620	38.360	ORE
POL.,HC,BUKOWKA (PHA)P-23	GN	3FI-N	18.372	15.632	38.396	ORE
POL.,HC,SZCZUKO.(PHA)P-12	GN	3FI-N	18.365	15.616	38.359	ORE
POL.,HC,MIEDZIA.(PHA)P-2	GN	3FI-N	18.336	15.621	38.335	ORE

RUMANIA

PHANEROZOIC

RUMA,CA,BAIA SP.(PHA)B13	GN	PJB	19.03	15.85	39.37	ORE R-F 60I
RUMA,CA,HERJA (PHA)B15	GN	PUB	19.05	15.90	39.49	ORE R-F 60I

SOVIET UNION

DATA LABELED KOUVO ARE LISTED THROUGH PERMISSION OF OJAVI KOUVO,
GEOLOGICAL SURVEY OF FINLAND, YEAR IS YEAR OF ANALYSIS

PHANEROZOIC

SOV.,SARDONA (PHA)K-401	GN	3FI-N	18.174	15.590	38.233	ORE
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NORTHERN SIBERIA

SOV.,NS,NORILSK (MES)V-40	CH	PUB	17.81	15.24	37.54	ORE VZT 58KI
SOV.,NS,NORILSK (MES)V-41	PT	PUB	17.90	15.29	37.53	ORE VZT 58KI
SOV.,NS,NORILSK (MES)V-42	GN	PJB	17.88	15.27	37.50	ORE VZT 59KI
SOV.,NS,TAIMYR (MES)V-43	GN	PUB	17.99	15.25	37.50	ORE VZT 58KI
SOV.,NS,TAIMYR (MES)V-44	GN	PUB	17.92	15.35	37.60	ORE VZT 58KI

PODKAMENNAYA

SOV.,NS,PODKAME.(MES)V-45	GN	PUB	17.97	15.35	37.72	ORE VZT 58KI
SOV.,NS,PODKAME.(PHA)V-46	GN	PJB	18.87	15.40	37.75	ORE VZT 58KI

RUDNYI ALTAI REGION, ASIA

BEREZOVSKOE

SOV.,RA,BEREZOV.(PAL)V-1	PY	PJB	17.89	15.67	37.98	ORE VZT 58KI
SOV.,RA,BEREZOV.(PAL)V-2	GN	PUB	17.83	15.58	37.77	ORE VZT 58KI

NOVO-BEREZOVSKOE AREA, ASIA

SOV.,RA,N.BEREZ.(PAL)V-3	PY	PUB	17.89	15.60	37.80	ORE VZT 58KI
SOV.,RA,N.BEREZ.(PAL)V-4	PY	PUB	17.86	15.62	37.87	ORE VZT 58KI
SOV.,RA,N.BEREZ.(PAL)V-5	WR	PJB	17.86	15.66	37.80	ORE VZT 58KI
SOV.,RA,N.BEREZ.(PAL)V-6	WR	PUB	17.89	15.60	37.88	ORE VZT 58KI
SOV.,RA,N.BEREZ.(PAL)V-7	WR	PUB	17.92	15.60	37.75	ORE VZT 58KI
SOV.,RA,N.BEREZ.(PAL)V-8	WR	PUB	17.92	15.61	37.82	ORE VZT 58KI

SOV.,,RA,CHUDAK (PAL)V-9	WR PJB	17.86	15.52	37.67	ORE VZT 58KI
BUKHTARMINSKOE					
SOV.,,RA,BUKHTAR.(PAL)V-10	WR PJB	17.83	15.49	37.56	ORE VZT 58KI
VAVILONSKOE					
SOV.,,RA,VAVILON.(PAL)V-11	WR PUB	17.86	15.48	37.64	ORE VZT 58KI
SOV.,,RA,VAVILON.(PAL)V-12	WR PUB	17.89	15.56	37.70	ORE VZT 58KI
BEREZOVSKOE					
SOV.,,RA,BEREZOV.(PAL)V-13	GN PUB	17.76	15.57	37.70	ORE VZT 58KI
BELOUSOVSKOE					
SOV.,,RA,BELOUSO.(CAR)V-14	WR PUB	18.02	15.71	37.98	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-15	GN PUB	18.08	15.62	37.99	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-16	GN PUB	17.92	15.63	37.97	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-17	GN PJB	17.95	15.65	38.02	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-18	WR PJB	18.05	15.73	38.07	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-19	WR PUB	18.05	15.73	38.02	ORE VZT 58KI
SOV.,,RA,BELOUSO.(CAR)V-20	GN PUB	17.99	15.66	38.05	ORE VZT 58KI
ZYRYANOVSKOE					
SOV.,,RA,ZYRYANO.(PAL)V-21	WR PUB	17.78	15.39	37.60	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-22	WR PUB	17.76	15.34	37.35	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-23	WR PUB	17.76	15.47	37.63	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-24	CH PJB	17.80	15.49	37.70	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-25	GN PUB	17.87	15.44	37.79	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-26	WR PUB	17.92	15.53	37.40	ORE VZT 58KI
SOV.,,RA,ZYRYANO.(PAL)V-27	GN PUB	17.85	15.54	37.50	ORE VZT 58KI

PRECAMBRIAN

KOLA PENINSULA

SOV.,,KO,MONCHE T(Y?)V-47	WR PJB	16.86	15.29	36.07	ORE VZT 58KI
SOV.,,KO,MONCHE T(Y?)V-48	WR PUB	16.78	15.20	36.05	ORE VZT 58KI
SOV.,,KO,PECHENGA(Y?)V-49	WR PUB	15.22	14.85	34.50	ORE VZT 58KI
SOV.,,KO,PECHENGA(Y?)V-50	WR PUB	15.27	14.89	34.38	ORE VZT 58KI
SOV.,,KO,PECHENGA(Y?)V-51	WR PUB	15.17	14.79	34.57	ORE VZT 58KI

1600 M.Y.

SOV.,,SK,HOGLAND (X-Y)G272	GN GEL-N	15.908	15.367	35.383	ORE KOUV75X
SOV.,,SK,SAKKIJA.(X-Y)G2	GN GEL-N	19.171	15.783	38.796	ORE KOUV75X

2000 M.Y.(KARELIAN)

SOV.,,SK,PITKARA.(X)G29B	GN PBS-R	14.73	14.88	34.51	ORE KOUV64X
SOV.,,SK,LEPPASE.(X)G69	GN PBS-R	14.77	15.13	34.92	ORE KOUV64X
SOV.,,SK,SORTAVA.(X)G113	GN PBS-R	14.78	15.16	34.93	ORE KOUV64X
SOV.,,SK,PITKARA.(X)G29C	GN PBS-R	14.79	15.01	34.72	ORE KOUV64X
SOV.,,SK,PITKARA.(X)G29A	GN PBS-R	14.84	14.92	34.66	ORE KOUV64X

SPAIN

PHANEROZOIC

SIERRA DE CARTAGENA

SPAI,CA,MAZARRO.(CEN)3207	GN PUB	18.68	15.59	38.57	ORE GRAE70DE
SPAI,CA,EMILIA (CEN)297	GN PUB	18.73	15.71	39.06	ORE GRAE70DE
SPAI,CA,SECRETA.(CEN)419	GN PUB	18.75	15.72	38.98	ORE GRAE70DE
SPAI,CA,J.CESAR (CEN)K31	GN PUB	18.75	15.70	38.94	ORE GRAE70DE
SPAI,CA,GLORIA (CEN)521A	GN PUB	18.75	15.70	38.95	ORE GRAE70DE
SPAI,CA,CONFIAN.(CEN)K10	GN PUB	18.76	15.71	39.01	ORE GRAE70DE
SPAI,CA,RAJADO (CEN)238	GN PUB	18.76	15.71	38.96	ORE GRAE70DE
SPAI,JA,L.CAROL.(PHA)C105B	GN PUB	18.21	15.62	38.49	ORE R-F 60I
SPAI,JA,HUELVA (PHA)C106	GN PUB	18.27	15.59	38.40	ORE R-F 60I
SPAI,JA,L.CAROL.(PHA)C105A	GN PUB	18.27	15.65	38.72	ORE R-F 60I
SPAI,JA,L.CAROL.(PHA)C107	GN PUB	18.35	15.72	38.80	ORE R-F 60I
SPAI,JA,HORNACH.(PHA)T330	GN PUB	18.39	16.03	38.76	ORE R-F 60I

SWEDEN

PHANEROZOIC(?)

SWED,VA,VASSBO (PHA)S2	GN PUB	20.79	15.76	39.58	ORE M-V 63NG
SWED,LP,LAISVALL(PHA)T937	GN PUB	20.89	16.04	39.96	ORE R-F 60I
SWED,VA,NASAFJE.(PHA)N23	GN PUB	20.93	15.76	39.52	ORE M-V 63NG
SWED,LP,LAISVALL(PHA)S1	GN PUB	21.27	15.93	39.69	ORE M-V 63NG
SWED,SE,ERSTAVIK(PHA)T939	GN PUB	21.37	16.04	40.45	ORE R-F 60I
SWED,VA,MORO (PHA)T940	GN PUB	25.16	16.51	41.64	ORE R-F 60I

PRECAMBRIAN

SWED,VA,HORNTRA.(X?)T944	GN PUB	15.35	15.31	34.92	ORE R-F 60I
SWED,VA,VINDELG.(X?)T945	GN PUB	15.41	15.29	34.97	ORE R-F 60I
SWED,VA,LANGBAN (X?)M22	GN PUB	15.83	15.45	35.60	ORE R-F 60I
SWED,VA,LANGBAN (X?)C137	GN PUB	15.84	15.55	35.68	ORE R-F 60I
SWED,DA,HILLANG (X?)T943	GN PUB	15.89	15.59	35.27	ORE R-F 60I
SWED,VS,KAVELTO.(X?)T942	GN PUB	15.89	15.61	35.43	ORE R-F 60I
SWED,VA,FAHLUN (X?)C148	GN PUB	15.89	15.61	35.86	ORE R-F 60I
SWED,SM,GLADHAM.(X?)T941	GN PUB	15.93	15.46	35.31	ORE R-F 60I
SWED,VS,SALA (X?)T938	GN PUB	16.01	15.71	35.59	ORE R-F 60I

YUGOSLAVIA

PHANEROZOIC

YUGO,VA,TREPCA (PHA)C59	GN PUB	18.75	15.64	39.17	ORE R-F 60I
YUGO,VA,TREPCA (PHA)C12	GN PUB	18.92	15.86	39.35	ORE R-F 60I

ORES

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OF

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/206 208/204TYPE REFER.

GREENLAND

IVIGTUT/LAXBUNDEN, SOUTHERN GREENLAND, CRYOLITIC PEGMATITES

>2980MY PROTOSOURCE - 1880-1100MY SOURCE - <1100MY MINERALIZATION

GRNL.S.	IVIGTUT (Y?)NBS200	PY MTH-N	14.61	14.68	34.53	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UBC260	GN MTH-N	14.60	14.68	34.55	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UBC261	GN MTH-N	14.59	14.66	34.50	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UBC262	GN MTH-N	14.62	14.69	34.58	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UBC264	GN MTH-N	14.58	14.67	34.52	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UBC265	GN MTH-N	14.61	14.68	34.54	ORE K-S 64A
GRNL.S.	IVIGTUT (Y?)UW0-1	CY MTH-N	14.60	14.68	34.52	ORE ULYR64A
GRNL.S.	IVIGTUT (Y?)UW0-2	SF MTH-N	14.87	14.71	34.64	GRA ULYR64A
GRNL.S.	IVIGTUT (Y?)UW0-4	PY MTH-N	14.78	14.70	34.79	ORE ULYR64A
GRNL.S.	IVIGTUT (Y?)UW0-6	PY MTH-N	14.64	14.69	34.59	ORE ULYR64A
GRNL.S.	LAXBUN.(Y?)UW021	GN MTH-N	15.58	14.99	35.38	ORE ULYR64A

MEXICO

MESOZOIC

MEX.	ZA	FRESNILL(M-C)GS-18-71	GN 3FI-N	18.832	15.641	38.771	ORE
MEX.	ZA	FRESNILL(M-C)GS-17-71	GN 3FI-N	18.840	15.646	38.778	ORE
MEX.	ZA	PROVIDEN(CEN)S236SALA	GN P3S-R	18.84	15.91	39.54	ORE
MEX.	ZA	PROVIDEN(CEN)HU364Z	GN P3S-R	18.86	15.93	39.61	ORE
MEX.		TAXCO (CEN)GUERRERO	GN P3S-R	18.91	15.86	39.47	ORE
MEX.		TAXCO (CEN)JESUS	GN P3S-R	18.91	15.87	39.46	ORE
MEX.	ZA	PROVIDEN(CEN)S18ANIMA	GN P3S-R	18.91	15.97	39.75	ORE
MEX.		TAXCO (CEN)S.ANTONI	GN P3S-R	18.93	15.88	39.42	ORE
MEX.	HI	PACHUCA (CEN)270M.VET	GN P3S-R	18.96	15.91	39.52	ORE
MEX.		TAXCO (CEN)PEDREGAL	GN P3S-R	18.97	15.93	39.68	ORE
MEX.	HI	ZIMAPAN (CEN)LT90PS	GN P3S-R	18.98	15.87	39.48	ORE
MEX.	HI	ZIMAPAN (CEN)120G LOM	GN P3S-R	18.98	15.89	39.57	ORE
MEX.	HI	ZIMAPAN (CEN)90G LOM	GN P3S-R	18.99	15.88	39.51	ORE
MEX.	HI	ZIMAPAN (CEN)VAQUERO	GN P3S-R	19.00	15.88	39.51	ORE
MEX.	HI	PACHUCA (CEN)M.TIRO H	GN P3S-R	19.00	15.93	39.61	ORE
MEX.	HI	PACHUCA (CEN)500M.ESP	GN P3S-R	19.01	15.99	39.83	ORE
MEX.	HI	ZIMAPAN (CEN)LT90C LG	GN P3S-R	19.02	15.94	39.67	ORE
MEX.	HI	PACHUCA (CEN)500M.VET	GN P3S-R	19.02	16.01	39.83	ORE
MEX.	HI	ZIMAPAN (CEN)BALCONES	GN P3S-R	19.03	15.93	39.66	ORE
MEX.	HI	ZIMAPAN (CEN)LT0SG LG	GN P3S-R	19.04	15.97	39.76	ORE

NEW ZEALAND

MESOZOIC-CENOZOIC

N.Z.	NI	WAIOR. (CEN)PB217	GN DSP	18.81	15.62	38.71	ORE C-R 69GJ
N.Z.	NI	U.PETO. (CEN)PB214	GN DSP	18.81	15.63	38.71	ORE C-R 69GJ
N.Z.	NI	L.PETO. (CEN)PB215	GN DSP	18.81	15.64	38.73	ORE C-R 69GJ
N.Z.	NI	TUI (CEN)PB219	GN DSP	18.82	15.63	38.71	ORE C-R 69GJ
N.Z.	NI	TUI (CEN)PB220	GN DSP	18.82	15.64	38.73	ORE C-R 69GJ
N.Z.	NI	STON.B. (CEN)PB216	GN DSP	18.91	15.65	38.82	ORE C-R 69GJ
N.Z.	NI	SORRY (CEN)PB218	GN DSP	18.94	15.67	38.88	ORE C-R 69GJ
N.Z.		BROADLAN(REC)P37071	GN 3FI-R	18.834	15.625	38.713	ORE
N.Z.		BROADLAN(REC)P37204	GN 3FI-R	18.966	15.640	38.836	ORE

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 IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
 LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

SOUTH AMERICA

BOLIVIA

MESOZOIC-CENOZOIC

BOLI, QUIMSA (CEN)SZ422 GN PBS-K 19.09 16.04 40.25 ORE

BRAZIL

BRAZ,BA,BOQUIRA (W)DP67 GN PUB 14.58 15.17 34.10 ORE C-L 69RG
 BRAZ,BA,BOQUIRA (W)DP66 GN PUB 14.58 15.23 34.31 ORE C-L 69RG
 BRAZ,BA,BOQUIRA (W)DP57 GN PUB 14.59 15.17 34.18 ORE C-L 69RG
 BRAZ,BA,BOQUIRA (W)DP72 GN PUB 14.88 15.46 34.67 ORE C-L 69RG

BRAZ,BA,V.QUEMA.(X)DP71 GN PUB 16.08 15.50 35.62 ORE C-L 69RG
 BRAZ,BA,V.QUEMA.(X)DP56 GN PUB 16.13 15.46 35.53 ORE C-L 69RG
 BRAZ,CA,BLUMENAU(X?)DP64 GN PUB 16.13 15.62 37.04 ORE C-L 69RG
 BRAZ,CA,BLUMENAU(X?)DP70 GN PUB 16.22 15.70 37.35 ORE C-L 69RG

BRAZ,PE,M.AREIA (Z?)DP55 GN PUB 17.37 15.36 36.46 ORE C-L 69RG
 BRAZ,MG,VAZANTE (Z)DP60 GN PUB 17.61 15.59 36.90 ORE C-L 69RG
 BRAZ,MG,MORAO (Z?)DP59 GN PUB 18.09 15.76 39.65 ORE C-L 69RG

BRAZ,PI,F.POCOES(PHA)DP65 GN PUB 19.28 15.96 39.69 ORE C-L 69RG
 BRAZ,MG,F.CEDRO (PHA)DP61 GN PUB 19.02 15.52 37.63 ORE C-L 69RG
 BRAZ,MG,F.CEDRO (PHA)CP68 GN PUB 19.34 15.78 38.34 ORE C-L 69RG
 BRAZ,MG,F.PINHAO(PHA)DP63 GN PUB 19.95 16.00 39.53 ORE C-L 69RG
 BRAZ,MG,F.PINHAO(PHA)DP69 GN PUB 19.96 16.10 39.46 ORE C-L 69RG
 BRAZ,MG,F.CHUMBO(PHA)DP62 GN PUB 19.86 15.86 38.98 ORE C-L 69RG
 BRAZ,MG,F.CHUMBO(PHA)DP74 GN PUB 19.92 15.96 39.21 ORE C-L 69RG

CHILE

PHANEROZOIC

CHIL, SALVADOR(PHA)E5-9960 GN 3FI-N 18.516 15.600 38.482 ORE

PERU

CENOZOIC

PERU,SC,CAUDALOS(CEN)72S220 GN 3FI-N 18.628 15.618 38.629 ORE
 PERU,NC,P.BUENO (CEN)AVG.5 GA GN GEL-N 18.827 15.671 38.682 ORE L-S 74X
 PERU,C,CASAPULC(CEN)68S17 GN 3FI-N 18.822 15.649 38.671 ORE

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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

ALASKA
MESOZOIC-CENOZOIC

U.S. AK KETCHIKA (M-C)C-146	GN PUB	18.95	15.89	39.35	ORE R-F 60I
U.S. AK PEDRO (CEN)PEDRO DO	GN 3FI-N	19.118	15.688	39.146	ORE
U.S. AK STEAMBOA (CEN)STEAMBOA	GN 3FI-N	19.132	15.685	39.160	ORE
U.S. AK BUSTY (CEN)BUSTY BE	GN 3FI-N	19.126	15.693	39.177	ORE
U.S. AK HYDER (M-C)C-108	GN PUB	19.33	15.64	38.93	ORE R-F 60I

ARKANSAS
PHANEROZOIC

U.S. AR MONTGOM. (PHA)C-101	GN PUB	18.36	15.61	38.56	ORE R-F 60I
U.S. AR KELLOGG (PHA)C-56	GN PUB	18.61	15.69	38.78	ORE R-F 60I
U.S. AR LAWRENCE (PHA)C-55	GN PUB	21.89	16.07	41.55	ORE R-F 60I
U.S. AR MORN. STA (PHA)C-57	GN PUB	22.73	16.18	41.86	ORE R-F 60I

ARIZONA
MESOZOIC-CENOZOIC

U.S. AZ BISBEE (CRE)COLE MIN	GN 3FI-N	17.136	15.464	37.837	ORE
U.S. AZ WALAPAI (M-C)C197FONT	GN PUB	18.15	15.55	38.93	ORE R-F 60I
U.S. AZ TUCSON M(M-C)C118N	GN PUB	18.52	15.67	38.89	ORE R-F 60I
U.S. AZ AMPHITHE (M-C)74C1	GN 3FI-N	18.578	15.602	38.641	ORE
U.S. AZ MAMMOTH (CEN)MAMMOTH	GN 3FI-N	18.787	15.612	39.201	ORE ZART74E
U.S. AZ HEAD CEN (CEN)HEAD CEN	GN 3FI-N	19.105	15.637	39.052	ORE ZART74E

1700 M.Y.

MASSIVE SULFIDE DEPOSIT

U.S. AZ JEROME (Y)UNITED V	GN 3FI-N	15.725	15.270	35.344	ORE
U.S. AZ BAGDAD (X)OLD DICK	GN 3FI-N	15.805	15.318	35.422	ORE
U.S. AZ BRUCE M. (X)BRUCE M.	GN PUB	15.81	15.33	35.42	ORE C-B 73W
U.S. AZ JEROME (X)IRON KIN	GN AEC1	16.04	15.40	35.75	ORE ANT 64X

CALIFORNIA
MESOZOIC-CENOZOIC

ASTA (DEV)W-TR9AS	GN 3FI-N	17.893	15.454	37.453	ORE
ASTA (TRI)E-G1	GN 3FI-N	17.897	15.462	37.493	ORE
ATH VA (M-C)DEATH VA	GN 3FI-N	17.965	15.578	39.135	ORE ZART74E
ONDAY (M-C)NONDAY25	GN 3FI-N	18.268	15.624	39.553	ORE ZART74E
RIED (M-C)AC RIED	GN 3FI-N	18.446	15.629	38.746	ORE ZART74E

U.S.,CA,DARWIN (M-C)DARWIN-1	GN	3FI-N	18.535	15.626	38.759	ORE	ZART74E
U.S.,CA,C. GORDO(M-C)CER.GORD	GN	3FI-N	18.584	15.630	38.647	ORE	ZART74E
U.S.,CA,SHASTA (JUR)HALCYON	GN	3FI-N	18.622	15.585	38.328	ORE	
U.S.,CA,BODIE (M-C)BODIE-1	GN	3FI-N	19.059	15.647	38.834	ORE	ZART74E
U.S.,CA,LEAD MTN(M-C)LEAD 31	GN	3FI-N	19.059	15.684	39.275	ORE	ZART74E
U.S.,CA,ZACA MIN(M-C)ZACA MIN	GN	3FI-N	19.123	15.667	38.861	ORE	ZART74E
U.S.,CA,SALTON (CEN)BRINE	BR	P3S-N	19.13	15.67	39.07	BRI	DHW 66E
U.S.,CA,SENTINEL(M-C)SENTINEL	GN	3FI-N	19.434	15.763	40.528	ORE	ZART74E
U.S.,CA,KERNVILL(MES)KERNVILL	GN	3FI-N	19.479	15.755	39.197	ORE	ZART74E
U.S.,CA,SAN ANT.(M-C)C7&	GN	PUB	19.86	16.23	39.60	ORE	R-F 60I

1400 M.Y.

U.S.,CA,MTN.PASS(Y)C151SUL.	GN	PUB	16.12	15.37	35.66	ORE	R-F 60I
U.S.,CA,MTN.PASS(Y)MTN. PAS	GN	P3S-N	16.14	15.40	35.95	ORE	MITC73NT

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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

COLORADO

SAN JUAN VOLCANIC AREA
MESOZOIC-CENOZOIC

WESTERN SAN JUAN MOUNTAINS (JNCOMPAGHRE-SAN JUAN CALDERA COMPLEX)

U.S.,CO,S. JUAN (CEN)SUNNYSID	GN	3FI-N	18.285	15.556	37.919	ORE	
U.S.,CO,S. JUAN (CEN)74BRD4SU	GN	3FI-N	18.274	15.563	37.949	ORE	
U.S.,CO,S. JUAN (CEN)74BRD3SU	GN	3FI-N	18.363	15.575	38.027	ORE	
U.S.,CO,S. JUAN (CEN)G.WONDER	GN	3FI-N	18.404	15.583	38.101	ORE	
U.S.,CO,S. JUAN (CEN)HMO-4	GN	3FI-N	18.414	15.582	38.076	ORE	
U.S.,CO,S. JUAN (CEN)DUNMORE-	GN	3FI-N	18.449	15.580	38.060	ORE	
U.S.,CO,S. JUAN (CEN)HMO-1DUM	GN	3FI-N	18.472	15.584	38.027	ORE	
U.S.,CO,S. JUAN (CEN)44DV66F	GN	MTH-N	18.481	15.586	38.130	ORE	
U.S.,CO,S. JUAN (CEN)NAT.BELL	GN	3FI-N	18.495	15.571	38.140	ORE	
U.S.,CO,S. JUAN (CEN)MARCELLA	GN	3FI-N	18.498	15.595	38.056	ORE	
U.S.,CO,S. JUAN (CEN)ST.PAUL	GN	3FI-N	18.524	15.590	38.178	ORE	
U.S.,CO,S. JUAN (CEN)SUNNYSID	GN	3FI-N	18.549	15.603	38.242	ORE	
U.S.,CO,S. JUAN (CEN)IDA-983	GN	3FI-N	18.591	15.594	38.194	ORE	
U.S.,CO,S. JUAN (CEN)CAMP BIR	GN	3FI-N	18.616	15.582	38.198	ORE	
U.S.,CO,S. JUAN (CEN)IDORADO	GN	3FI-N	18.641	15.595	38.202	ORE	
U.S.,CO,S. JUAN (CEN)IDA-1913	GN	3FI-N	18.664	15.594	38.216	ORE	
U.S.,CO,S. JUAN (CEN)IDA-121	GN	3FI-N	18.674	15.602	38.232	ORE	
U.S.,CO,S. JUAN (CEN)BLK.BEAR	GN	3FI-N	18.717	15.618	38.289	ORE	
U.S.,CO,S. JUAN (CEN)IDA-2057	GN	3FI-N	18.718	15.608	38.241	ORE	
U.S.,CO,S. JUAN (CEN)PORTLAND	GN	MTH-N	18.749	15.608	37.962	ORE	
U.S.,CO,S. JUAN (CEN)44DV52	GN	MTH-N	18.802	15.625	38.212	ORE	
U.S.,CO,S. JUAN (CEN)72-L-96-	GN	3FI-N	18.815	15.612	38.350	ORE	
U.S.,CO,S. JUAN (CEN)CZAR MIN	GN	3FI-N	18.843	15.617	38.420	ORE	
U.S.,CO,S. JUAN (CEN)REVENUE	GN	MTH-N	18.895	15.631	38.337	ORE	

U.S. GEOLOGICAL SURVEY
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U.S. CO.S.	JUAN (CEN)IDA-39	GN 3FI-N	18.924	15.632	38.371	ORE
U.S. CO.S.	JUAN (CEN)IDORADO	GN 3FI-N	18.967	15.632	38.350	ORE
U.S. CO.S.	JUAN (CEN)G. FLEECE	GN 3FI-N	19.078	15.643	38.533	ORE
U.S. CO.S.	JUAN (CEN)G. FLEECE	GN 3FI-N	19.079	15.643	38.532	ORE

PRE-CENOZOIC MINERALIZATION (WESTERN SAN JUAN MOUNTAINS)

BATCHELOR MINE

U.S. CO.S.	JUAN (CEN)44DV26(K	GN P3S-N	18.69	15.61	38.42	ORE
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PONY EXPRESS MINE

U.S. CO.S.	JUAN (CEN)HMO-3	GN 3FI-N	18.676	15.601	38.372	ORE
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CENTRAL SAN JUAN MOUNTAINS (LA GARITA CALDERA COMPLEX)

U.S. CO.S.	JUAN (CEN)MONON(D)	GN 3FI-N	18.847	15.617	37.942	ORE
U.S. CO.S.	JUAN (CEN)MONON(V)	GN P3S	18.86	15.63	37.96	ORE
U.S. CO.S.	JUAN (CEN)EMMA	GN MTH-N	18.802	15.626	38.018	ORE
U.S. CO.S.	JUAN (CEN)GS/682	GN 3FI-N	19.047	15.623	37.884	ORE
U.S. CO.S.	JUAN (CEN)OH-VR-NW	GN P3S-N	19.01	15.56	37.68	ORE
U.S. CO.S.	JUAN (CEN)HOLY MOS	GN P3S-N	19.03	15.59	37.77	ORE
U.S. CO.S.	JUAN (CEN)OH-8R-5	GN P3S-N	19.03	15.60	37.81	ORE
U.S. CO.S.	JUAN (CEN)PUZZEL V	GN P3S-N	19.03	15.62	37.85	ORE
U.S. CO.S.	JUAN (CEN)PBB-1-59	GN MTH-N	19.038	15.638	37.888	ORE
U.S. CO.S.	JUAN (CEN)OH-SYBIL	GN P3S-N	19.05	15.64	37.94	ORE
U.S. CO.S.	JUAN (CEN)BOND HOL	GN 3FI-N	19.092	15.641	37.906	ORE
U.S. CO.S.	JUAN (CEN)KREUTZER	GN 3FI-N	18.816	15.612	39.967	ORE

SOUTHERN SAN JUAN MOUNTAINS (PLATORO CALDERA COMPLEX)

U.S. CO.S.	JUAN (CEN)FEYN-SUM	GN MTH-N	17.811	15.523	37.214	ORE
U.S. CO.S.	JUAN (CEN)71L55-SU	GN 3FI-N	17.821	15.521	37.209	ORE
U.S. CO.S.	JUAN (CEN)ST157-JA	GN MTH-N	18.112	15.546	37.574	ORE
U.S. CO.S.	JUAN (CEN)KC28	GN 3FI-N	18.925	15.625	37.853	ORE

PRE-ASH FLOW TUFF SEQUENCE (ORES)

U.S. CO.S.	JUAN (CEN)CH14	GN MTH-N	17.725	15.502	37.366	ORE
U.S. CO.S.	JUAN (CEN)CH9B-B	GN P3S-N	17.99	15.50	37.31	ORE
U.S. CO.S.	JUAN (CEN)CH-40B	GN P3S-N	18.02	15.55	37.50	ORE
U.S. CO.S.	JUAN (CEN)SC18B	GN 3FI-N	18.251	15.547	38.132	ORE
U.S. CO.S.	JUAN (CEN)SKC-1B	GN 3FI-N	18.478	15.568	37.815	ORE
U.S. CO.S.	JUAN (CEN)WHP	GN MTH-N	19.686	15.687	38.041	ORE
U.S. CO.S.	JUAN (CEN)EM4U	GN MTH-N	19.954	15.708	38.012	ORE
U.S. CO.S.	JUAN (CEN)EM-60	GN 3FI-N	21.134	15.806	38.366	ORE

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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

COLORADO
EXCLUSIVE OF SAN JUAN VOLCANIC AREA
MESOZOIC-CENOZOIC

U.S.,CO,MORNING (M-C)DS216	GN PBI-N	17.26	15.49	37.97	ORE DPA	66UP
U.S.,CO,AU PARK (M-C)DS218	GN PBI-N	17.38	15.40	38.13	ORE DPA	66UP
U.S.,CO,AU PARK (M-C)DS217	GN PBI-N	17.39	15.55	38.15	ORE DPA	66UP
U.S.,CO,AU PARK (M-C)DS220	GN PBI-N	17.40	15.54	38.17	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)DS263	GN PBI-N	17.41	15.49	38.19	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)DS261	GN PBI-N	17.41	15.49	38.24	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)DS266	GN PBI-N	17.41	15.50	38.27	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)GS3	GN PBI-N	17.41	15.53	38.29	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)DS265	GN PBI-N	17.45	15.51	38.27	ORE DPA	66UP
U.S.,CO,BULL DOM(M-C)DS215	GN PBI-N	17.43	15.48	37.06	ORE DPA	66UP
U.S.,CO,CARIBOU (M-C)DS264	GN PBI-N	17.47	15.49	38.34	ORE DPA	66UP
U.S.,CO,BULL DOM(M-C)DS224	GN PBI-N	17.51	15.57	37.29	ORE DPA	66UP
U.S.,CO,NEDERLAN(M-C)DS258	GN PBI-N	17.53	15.47	38.52	ORE DPA	66UP
U.S.,CO,GILMAN (CEN)DS228	GN PBI-N	17.68	15.54	38.47	ORE DPA	66UP
U.S.,CO,CLIMAX (M-C)DS259	GN PBI-N	17.64	15.53	38.32	ORE DPA	66UP
U.S.,CO,AUGUSTA (M-C)DS334	GN PBI-N	17.64	15.59	38.65	ORE DPA	66UP
U.S.,CO,AUGUSTA (M-C)DS206	GN PBI-N	17.64	15.59	38.66	ORE DPA	66UP
U.S.,CO,JAMESTOW(M-C)DS328	GN PBI-N	17.66	15.60	38.75	ORE DPA	66UP
U.S.,CO,JEAN (M-C)DS313	GN PBI-N	17.66	15.51	40.54	ORE DPA	66UP
U.S.,CO,TWIN LAK(M-C)DS329	GN PBI-N	17.67	15.49	39.91	ORE DPA	66UP
U.S.,CO,URAD (CEN)DS269	GN PBI-N	17.68	15.53	39.78	ORE DPA	66UP
U.S.,CO,HENDERSO(CEN)HENDERSO	GN 3FI-N	17.700	15.512	39.372	ORE ZART	74E
U.S.,CO,SUGARLOA(M-C)DS236	GN PBI-N	17.72	15.54	38.52	ORE DPA	66UP
U.S.,CO,URAD (CEN)DS226	GN PBI-N	17.73	15.59	39.72	ORE DPA	66UP
U.S.,CO,AG PLUME(M-C)GS266	GN PBI-N	17.74	15.54	39.03	ORE DPA	66UP
U.S.,CO,ALMA (M-C)DS327	GN PBI-N	17.76	15.50	38.23	ORE DPA	66UP
U.S.,CO,GILMAN (CEN)GILMAN	GN PUB	17.79	15.57	38.63	ORE RMB	68B
U.S.,CO,GILMAN (M-C)DS229	GN PBI-N	17.80	15.55	38.47	ORE DPA	66UP
U.S.,CO,PARKVIEW(M-C)DS330	GN PBI-N	17.86	15.59	37.60	ORE DPA	66UP
U.S.,CO,MARY MUR(M-C)DS217	GN PBI-N	17.81	15.55	38.14	ORE DPA	66UP
U.S.,CO,CLIMAX (M-C)DS230	GN PBI-N	17.84	15.57	38.42	ORE DPA	66UP
U.S.,CO,LEADVILL(M-C)DS250	GN PBI-N	17.87	15.54	38.48	ORE DPA	66UP
U.S.,CO,ASPEN (M-C)DS323	GN PBI-N	17.88	15.54	37.97	ORE DPA	66UP
U.S.,CO,LEADVILL(M-C)DS234	GN PBI-N	17.88	15.55	38.44	ORE DPA	66UP
U.S.,CO,LEADVILL(M-C)DS248	GN PBI-N	17.88	15.55	38.41	ORE DPA	66UP
U.S.,CO,LEADVILL(M-C)DS246	GN PBI-N	17.88	15.54	38.45	ORE DPA	66UP
U.S.,CO,GILMAN (M-C)MANTO-CH	GN PUB	17.90	15.71	38.91	ORE RMB	68B
U.S.,CO,ASPEN (M-C)DS323	GN PBI-N	17.92	15.58	38.16	ORE DPA	66UP
U.S.,CO,CLIMAX (M-C)DS244	GN PBI-N	17.96	15.52	38.40	ORE DPA	66UP
U.S.,CO,ROBERTS (M-C)DS240	GN PBI-N	17.96	15.52	38.46	ORE DPA	66UP
U.S.,CO,ROBERTS (M-C)DS243	GN PBI-N	17.96	15.55	38.46	ORE DPA	66UP
U.S.,CO,LEADVILL(M-C)DS249	GN PBI-N	17.98	15.57	38.44	ORE DPA	66UP
U.S.,CO,MONTEZUM(M-C)DS308	GN PBI-N	17.98	15.57	38.46	ORE DPA	66UP
U.S.,CO,ROBERTS (M-C)DS241	GN PBI-N	17.99	15.56	38.50	ORE DPA	66UP
U.S.,CO,CLIMAX (M-C)DS231	GN PBI-N	18.00	15.54	38.57	ORE DPA	66UP

U.S. CO CLIMAX (M-C) DS260	GN	PBI-N	18.02	15.54	38.44	ORE	DPA	66UP
U.S. CO ROBERTS (M-C) DS238	GN	PBI-N	18.01	15.60	38.54	ORE	DPA	66UP
U.S. CO ROBERTS (M-C) DS239	GN	PBI-N	18.02	15.59	38.62	ORE	DPA	66UP
U.S. CO MONTEZUM (M-C) DS307	GN	PBI-N	18.03	15.58	38.54	ORE	DPA	66UP
U.S. CO GILMAN (M-C) VEI(P. CA	GN	PUB	18.03	15.72	39.18	ORE	RMB	68B
U.S. CO HAHNS PK(M-C) LI. RED P	AU	PBS-N	18.04	15.47	36.94	ORE	ADD	72E
U.S. CO LEADVILL(M-C) DS233	GN	PBI-N	18.06	15.60	38.62	ORE	DPA	66UP
U.S. CO KOKOMO (M-C) DS210	GN	PBI-N	18.07	15.60	38.45	ORE	DPA	66UP
U.S. CO KOKOMC (M-C) DS324	GN	PBS-N	18.11	15.57	38.49	ORE	DPA	66UP
U.S. CO GILMAN (M-C) VEI(QZT.	GN	PUB	18.13	15.81	39.12	ORE	RMB	68B
U.S. CO EUREKA (M-C) GS/177	GN	3FI-N	18.144	15.548	38.272	ORE		
U.S. CO TOMICHI (M-C) DS320	GN	PBS-N	18.16	15.50	38.20	ORE	DPA	66UP
U.S. CO LEADVILL(M-C) DS235	GN	PBI-N	18.17	15.56	38.54	ORE	DPA	66UP
U.S. CO FRANK. AG(M-C) GS/271	GN	3FI-N	18.174	15.542	38.260	URE		
U.S. CO ASPEN (M-C) DS325	GN	PBS-N	18.19	15.55	38.21	ORE	DPA	66UP
U.S. CO TOMICHI (M-C) DS320	GN	PBI-N	18.20	15.54	38.34	ORE	DPA	66UP
U.S. CO BRECKENR(M-C) DS274	GN	PBI-N	18.23	15.54	38.25	ORE	DPA	66UP
U.S. CO LEADVILL(M-C) DS251	GN	PBI-N	18.24	15.58	38.61	ORE	DPA	66UP
U.S. CO BRECKENR(M-C) DS273	GN	PBI-N	18.25	15.54	38.25	ORE	DPA	66UP
U.S. CO BRECKENR(M-C) DS275	GN	PBI-N	18.26	15.54	38.27	ORE	DPA	66UP
U.S. CO BRECKENR(M-C) DS271	GN	PBI-N	18.26	15.58	38.38	ORE	DPA	66UP
U.S. CO HAHNS PK(M-C) JOHN. TAM	AU	PBS-N	18.35	15.58	37.14	ORE	ADD	72E
U.S. CO WOODS CR(M-C) DS314	GN	PBI-N	18.36	15.67	40.69	ORE	DPA	66UP
U.S. CO BOSS (M-C) DS312	GN	PBI-N	18.38	15.60	38.42	ORE	DPA	66UP
U.S. CO WALDORF (M-C) GS274	GN	PBI-N	18.53	15.55	39.14	ORE	DPA	66UP
U.S. CO NEDERLAN(M-C) DS319	GN	PBI-N	18.58	15.61	38.81	ORE	DPA	66UP
U.S. CO NEDERLAN(M-C) DS319	GN	PBS-N	18.61	15.63	38.88	ORE	DPA	66UP
U.S. CO HAHNS PK(M-C) TOM THUM	GN	3FI-N	18.626	15.606	37.237	ORE	ADD	72E
U.S. CO HOMESTAK(M-C) DS205	GN	PBI-N	18.66	15.68	38.47	ORE	DPA	66UP
U.S. CO HAHNS PK(M-C) IS-3	GN	3FI-N	18.681	15.600	37.192	ORE	ADD	72E
U.S. CO HAHNS PK(M-C) IS-2A	GN	3FI-N	18.700	15.613	37.246	ORE	ADD	72E
U.S. CO HOMESTAK(M-C) DS333	GN	PBI-N	18.73	15.70	38.56	ORE	DPA	66UP
U.S. CO HOMESTAK(M-C) DS223	GN	PBI-N	18.74	15.71	38.55	ORE	DPA	66UP
U.S. CO LEADVILL(M-C) DS318	GN	PBI-N	18.97	15.68	39.17	ORE	DPA	66UP
U.S. CO HILLTOP (M-C) DS253	GN	PBI-N	20.31	15.75	39.68	ORE	DPA	66UP
U.S. CO SHEEP MT(M-C) DS317	GN	PBI-N	20.48	15.81	39.86	ORE	DPA	66UP
U.S. CO HILLTOP (M-C) DS254	GN	PBI-N	20.55	15.76	39.81	ORE	DPA	66UP
U.S. CO HILLTOP (M-C) DS315	GN	PBI-N	20.69	15.84	40.14	ORE	DPA	66UP
U.S. CO YARMONY (M-C) DS221	GN	PBI-N	21.82	16.01	39.74	ORE	DPA	66UP
U.S. CO YULE (M-C) DS322	GN	PBI-N	23.99	16.13	41.32	ORE	DPA	66UP
U.S. CO YULE MAR(M-C) DS322	GN	PBS-N	24.02	16.13	41.39	ORE	DPA	66UP
U.S. CO EAGLE (M-C) 43-T-41	GN	3FI-N	17.738	15.530	38.509	ORE		

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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO. METHOD 206/234 207/234 208/234TYPE REFER.

COLORADO

EXCLUSIVE OF SAN JUAN VOLCANIC AREA

1000 M.Y.

U.S.,CO,VALJEAN (Y)DS270	GN PBI-N	16.69	15.38	36.36	ORE DPA 66UP
U.S.,CO,STOVE MT(Y)GS277	GN PBI-N	16.79	15.45	36.51	ORE DPA 66UP
U.S.,CO,BOOMER (Y)DS208	GN PBI-N	16.80	15.46	36.61	ORE DPA 66UP
U.S.,CO,BOOMER (Y)DS225	GN PBI-N	16.88	15.52	36.82	ORE DPA 66UP

1400 M.Y.

U.S.,CO,ELKHORN (X)DS245	GN PBI-N	16.09	15.33	35.38	ORE DPA 66UP
U.S.,CO,ELKHORN (X)ELKHORN	GN 3FI-N	16.147	15.380	35.495	ORE ADD 72E

1700 M.Y.

RESIT

U.S.,CO,CRESSWEL(Y)CM-45A	GN 3FI-N	15.631	15.226	35.184	ORE
U.S.,CO,HIGH LON(Y)DS310	GN PBI-N	15.65	15.24	35.17	ORE DPA 66UP
U.S.,CO,GREENVIL(Y)GREENVIL	GN 3FI-N	15.673	15.234	35.134	ORE ADD 72E
U.S.,CO,SEDALIA (Y)S64-75	GN 3FI-N	15.680	15.236	35.300	ORE
U.S.,CO,COTOPAXI(X)S3C75	GN 3FI-N	15.714	15.249	35.314	ORE
U.S.,CO,SLAVONIA(Y)SLAVONIA	GN 3FI-N	15.686	15.247	35.176	ORE ADD 72E
U.S.,CO,COTOPAXI(Y)GS268	GN PBI-N	15.72	15.27	35.36	ORE DPA 66UP
U.S.,CO,ST.LOUIS(Y)DS211	GN PBI-N	15.77	15.30	35.30	ORE DPA 66UP
U.S.,CO,GUFFEY (Y)GS269	GN PBI-N	15.82	15.33	35.37	ORE DPA 66UP
U.S.,CO,ST.LOUIS(Y)DS212	GN PBI-N	15.82	15.33	35.38	ORE DPA 66UP
U.S.,CO,HOSA LOD(Y)DS309	GN PBI-N	15.85	15.34	35.44	ORE DPA 66UP

CONNECTICUT

U.S.,CT,ROXBURY (PHA)C12	GN PUB	18.38	15.70	38.50	ORE R-F 60I
U.S.,CT,MIDDLET.(PHA)T-G4	GN PUB	18.43	15.85	38.63	ORE R-F 60I
U.S.,CT,DARIEN (PHA)C11	GN PUB	18.60	15.79	38.89	ORE R-F 60I
U.S.,CT,MIDDLET.(PHA)C10	GN PUB	18.64	15.83	38.94	ORE R-F 60I
U.S.,CT,MIDDLET.(PHA)C84	GN PUB	18.76	15.84	39.14	ORE R-F 60I
U.S.,CT,ROXBURY (PHA)C83	GN PUB	18.88	15.76	39.69	ORE R-F 60I

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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

GEORGIA

PHANEROZOIC

U.S.,GA,BATTLE B(PHA)LESURE	GN 3FI-N	18.286	15.643	38.138	ORE
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IDAHO

PHANEROZOIC

U.S.	ID	BONNER (PHA)I-18	HOP	GN	PUB	18.07	15.42	38.05	ORE	CPAB62GM
U.S.	ID	COEUR D' (PHA)ST. JAMES		GV	PUB	18.16	15.63	38.34	ORE	CPAB62GM
U.S.	ID	BONNER (PHA)CONJECTU		GN	PUB	19.16	15.71	39.57	ORE	CPAB62GM
U.S.	ID	COEUR D' (PHA)SUNRISE		GN	PUB	18.19	15.64	38.32	ORE	CPAB62GM
U.S.	ID	SILVER (PHA)I-271		GN	3FI-N	17.289	15.512	37.333	ORE	Z-S 71E
U.S.	ID	BUTTE (PHA)I-640		GN	MTH-N	17.290	15.579	38.508	ORE	SMAL68TH
U.S.	ID	COPPER (PHA)I-279		GN	3FI-N	17.769	15.531	37.710	ORE	Z-S 71E
U.S.	ID	CARIBOU (PHA)CARIBOU		GV	MTH-N	17.801	15.485	38.321	ORE	Z-S 71E
U.S.	ID	AG TIP (PHA)SILVER T		GN	MTH-N	17.836	15.495	38.220	ORE	Z-S 71E
U.S.	ID	BUTTE (PHA)I-639		GV	MTH-N	17.868	15.636	38.673	ORE	SMAL68TH
U.S.	ID	BUTTE (PHA)I-638		GN	MTH-N	17.909	15.628	38.696	ORE	SMAL68TH
U.S.	ID	BUCKHORN (PHA)BUCKHORN		GN	MTH-N	17.927	15.561	37.963	ORE	Z-S 71E
U.S.	ID	LEMHI (PHA)GILMORE		GN	MTH-N	17.947	15.556	38.746	ORE	SMAL68TH
U.S.	ID	CASSIA (PHA)SECT. 7		GN	MTH-N	17.993	15.705	41.332	ORE	SMAL68TH
U.S.	ID	HOOSIER (PHA)I-275		GN	3FI-N	18.198	15.584	37.683	ORE	Z-S 71E
U.S.	ID	CASSIA (PHA)WALTON		GN	MTH-N	18.231	15.772	40.713	ORE	SMAL68TH
U.S.	ID	REGAL (PHA)I-278		GN	3FI-N	18.247	15.604	37.798	ORE	Z-S 71E
U.S.	ID	BLAINE (PHA)KAPPA		GV	MTH-N	18.248	15.650	38.965	ORE	SMAL68TH
U.S.	ID	WHITEDEL (PHA)WHITEDEL		GN	3FI-N	18.255	15.580	38.419	ORE	Z-S 71E
U.S.	ID	TILLEY (PHA)I-272		GN	3FI-N	18.296	15.597	38.039	ORE	Z-S 71E
U.S.	ID	HOPE (PHA)HOPE		GV	MTH-N	18.299	15.607	38.510	ORE	Z-S 71E
U.S.	ID	LEMHI (PHA)BLUE LEA		GN	MTH-N	18.304	15.643	39.125	ORE	SMAL68TH
U.S.	ID	LAWRENCE (PHA)LAWRENCE		GV	3FI-N	18.320	15.570	38.477	ORE	Z-S 71E
U.S.	ID	MILLER (PHA)MILLER B		GN	3FI-N	18.533	15.618	38.305	ORE	Z-S 71E
U.S.	ID	STROEBEL (PHA)STROEBEL		GV	MTH-N	18.358	15.630	38.649	ORE	Z-S 71E
U.S.	ID	PLUME CR (PHA)PLUME CR		GV	3FI-N	18.528	15.615	38.815	ORE	Z-S 71E
U.S.	ID	CASSIA (PHA)I-557		GN	MTH-N	18.616	15.826	41.862	ORE	SMAL68TH
U.S.	ID	FALLS CR (PHA)		GN	3FI-N	18.637	15.624	38.917	ORE	Z-S 71E
U.S.	ID	CAMAS (PHA)I576	BUTT	GV	MTH-N	18.678	15.703	39.765	ORE	SMAL68TH
U.S.	ID	CUDDY MT (PHA)MO-5-330		GV	3FI-N	18.717	15.600	38.413	ORE	ZART74E
U.S.	ID	AG CITY (PHA)TRADE D.		KF	GEL-N	18.886	15.644	38.717	ORE	
U.S.	ID	TALACHE (PHA)I-240		GN	3FI-N	18.891	15.644	39.004	ORE	Z-S 71F
U.S.	ID	CUSTER (PHA)CLAYTON		GV	MTH-N	18.895	15.736	39.983	ORE	SMAL68TH
U.S.	ID	CONJECTU (PHA)CONJECTU		GN	3FI-N	18.997	15.649	39.244	ORE	Z-S 71E
U.S.	ID	COMMONWE (PHA)COMMONWE		GN	MTH-N	19.027	15.676	39.247	ORE	Z-S 71E
U.S.	ID	WEBER (PHA)WEBER		GN	MTH-N	19.048	15.666	39.270	ORE	Z-S 71E
U.S.	ID	TOM LEVI (PHA)TOM LEVI		GN	3FI-N	19.113	15.665	39.276	ORE	Z-S 71E
U.S.	ID	BLAINE (PHA)I577	STAR	GV	MTH-N	19.158	15.763	39.982	ORE	SMAL68TH
U.S.	ID	CASSIA (PHA)I623	AG H	GN	MTH-N	19.165	15.684	38.788	ORE	SMAL68TH
U.S.	ID	BUTTE (PHA)I634	ELLA	GN	MTH-N	19.165	15.819	39.638	ORE	SMAL68TH
U.S.	ID	WEBER (PHA)I20	BONNE	GV	PUB	19.26	15.77	39.61	ORE	CPAB62GM
U.S.	ID	SE. IDAHO (PHA)PB BELLE		GV	GEL-N	19.442	15.831	39.298	ORE	
		NORTH STAR MINE								
U.S.	ID	WOOD RIV (PHA)WH74-2B		GN	3FI-N	19.688	15.906	39.438	ORE	
U.S.	ID	CASSIA (PHA)I556	MELC	GV	MTH-N	19.818	16.032	41.827	ORE	SMAL68TH
		LIBERTY GEM MINE								
U.S.	ID	WOOD RIV (PHA)A176		GN	3FI-N	20.013	15.917	40.619	ORE	
		EUREKA MINE								
U.S.	ID	WOOD RIV (PHA)WH70-13B		GN	3FI-N	20.220	15.910	40.904	ORE	
U.S.	ID	BLAINE (PHA)I579	AG S	GN	MTH-N	20.279	15.947	41.214	ORE	SMAL68TH
U.S.	ID	BLAINE (PHA)I579	AG S	GN	MTH-N	20.378	15.978	41.275	ORE	SMAL68TH
		SILVER STAR QUEEN MINE								

U.S.	ID	WOOD RIV(PHA)WH70-16	GN	3FI-N	20.421	15.962	41.301	ORE	
U.S.	ID	BLAINE (PHA)I580AS S	GN	MTH-N	20.597	16.018	41.387	ORE	SMAL68TH
U.S.	ID	BLAINE (PHA)I578AG S	GN	MTH-N	20.623	16.021	41.320	ORE	SMAL68TH
U.S.	ID	BUTTE (PHA)I607WIL3	GN	MTH-N	20.692	15.957	40.914	ORE	SMAL68TH
U.S.	ID	WOOD RIV(PHA)C-40BELL	GN	PUB	20.79	16.21	41.49	ORE	R-F 60I
U.S.	ID	WOOD RIV(PHA)C-39BELL	GN	PUB	20.96	16.21	42.16	ORE	R-F 60I
U.S.	ID	WOOD RIV(PHA)C-41BELL	GN	PJB	20.94	16.24	42.01	ORE	R-F 60I
U.S.	ID	WOOD RIV(PHA)C-38BELL	GN	PUB	21.22	16.36	42.40	ORE	R-F 60I
U.S.	ID	WOOD RIV(PHA)C-42BELL	GN	PUB	21.24	16.41	42.63	ORE	R-F 60I

IDAHO

850-1400 M.Y.

U.S.	ID	HYPOTHEE(Y)HYPOTHEE	GN	MTH-N	16.147	15.367	35.886	ORE	Z-S 71E
U.S.	ID	BUNKER (Y)LUCKY FR	GN	MTH-N	16.216	15.377	35.905	ORE	Z-S 71E
U.S.	ID	BUNKER (Y)A19INT.3	GN	3FI-N	16.229	15.377	35.945	ORE	
U.S.	ID	BUNKER (Y)I22C	GN	3FI-N	16.237	15.384	35.905	ORE	Z-S 71E
U.S.	ID	BUNKER (Y)A6-1	GN	3FI-N	16.255	15.382	35.941	ORE	
U.S.	ID	BUNKER (Y)AE28-1	GN	3FI-N	16.259	15.387	35.962	ORE	
U.S.	ID	BUNKER (Y)I22B	GN	3FI-N	16.260	15.399	35.973	ORE	Z-S 71E
U.S.	ID	SIDNEY (Y)SIDNEY	GN	MTH-N	16.284	15.406	35.969	ORE	Z-S 71E
U.S.	ID	S.GEM ST(Y)S.GEM ST	GN	MTH-N	16.288	15.395	35.990	ORE	Z-S 71E
U.S.	ID	BOULDER (Y)BOULDER	GN	3FI-N	16.296	15.398	35.976	ORE	Z-S 71E
U.S.	ID	OREENA (Y)OREENA	GN	MTH-N	16.304	15.394	35.968	ORE	Z-S 71E
U.S.	ID	JANE AG (Y)JANE AG	GN	MTH-N	16.318	15.397	35.985	ORE	Z-S 71E
U.S.	ID	EILEEN (Y)I269	GN	3FI-N	16.327	15.402	35.991	ORE	Z-S 71E
U.S.	ID	CONTINEN(Y)CONTINEN	GN	3FI-N	16.340	15.399	36.022	ORE	Z-S 71E
U.S.	ID	PURCELL (Y)PURCELL	GN	3FI-N	16.358	15.408	36.006	ORE	
U.S.	ID	RAINBOW (Y)I-3	GN	3FI-N	16.421	15.453	36.045	ORE	Z-S 71E
U.S.	ID	RIVERSID(Y)RIVERSID	GN	MTH-N	16.518	15.423	36.226	ORE	Z-S 71E

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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

ILLINOIS

PHANEROZOIC

UPPER MISSISSIPPI VALLEY ZINC-LEAD DISTRICT

U.S.	IL	ELIZAB. (PHA)4-SKENE	GN	PBI-N	21.92	16.02	41.66	ORE	HDZB66E
U.S.	IL	OREENA (PHA)5A-AMELI	GN	PBI-N	21.95	16.03	41.69	ORE	HDZB66E
U.S.	IL	OREENA (PHA)5B-AMELI	GN	PBI-N	21.86	15.96	41.53	ORE	HDZB66E
U.S.	IL	OREENA (PHA)5C-AMELI	GN	PBI-N	21.91	15.96	41.55	ORE	HDZB66E
U.S.	IL	OREENA (PHA)8-BAUTSC	GN	PBI-N	22.18	16.06	41.97	ORE	HDZB66E

ILLINOIS KENTUCKY FLUORITE DISTRICT

U.S.	IL	HICKS D.(PHA)24HAMP H	GN	PBI-N	19.77	15.69	40.27	ORE	HDZB66E
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U.S.	IL	ROSICLA. (PHA)18FAIR. M	GN	PBI-N	19.91	15.84	39.63	ORE	HDZB66E
U.S.	IL	PARKINSO (PHA)L62-1	GN	PBS-N	20.06	15.69	39.48	ORE	
U.S.	IL	CAVE-IN (PHA)13DEARD.	GN	PBI-N	20.08	15.78	39.82	ORE	HDZB66E
U.S.	IL	CAVE-IN (PHA)20HILL M	GN	PBI-N	20.14	15.79	39.87	ORE	HDZB66E
U.S.	IL	CAVE-IN (PHA)21OXFORD	GN	PBI-N	20.19	15.82	39.86	ORE	HDZB66E
U.S.	IL	(PHA)L62-4	GN	PBS-N	20.49	15.83	40.16	ORE	
U.S.	IL	EMPIRE (PHA)L62-3	GN	PBS-N	20.66	15.84	40.18	ORE	
U.S.	IL	CLAY DIG (PHA)L62-2	GN	PBS-N	20.66	15.84	40.25	ORE	
U.S.	IL	ALTO PAS (PHA)AP60-6	GN	PBS-N	21.91	16.00	41.07	ORE	

U.S.	IL	ROSE (PHA)72-21	GN	3FI-N	19.640	15.674	39.234	ORE	
U.S.	IL	HAMP. (PHA)72-15	GN	3FI-N	19.888	15.707	39.544	ORE	
U.S.	IL	HAY CITY (PHA)BC-4	GN	3FI-N	20.096	15.744	39.763	ORE	
U.S.	IL	KARB. (PHA)70-25	GN	3FI-N	20.193	15.750	39.883	ORE	
U.S.	IL	WILLIAMS (PHA)W-8	GN	3FI-N	20.363	15.770	40.025	ORE	
U.S.	IL	RIDGE (PHA)R-27	GN	3FI-N	20.577	15.797	40.219	ORE	
U.S.	IL	FREE (PHA)F-63-1	GN	3FI-N	22.123	16.004	42.304	ORE	

PENNSYLVANIAN

U.S.	IL	NOKOMIS (PHA)29COAL M	GN	PBI-N	17.56	15.56	38.20	ORE	HDZB66E
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IOWA

UPPER MISSISSIPPI VALLEY ZINC-LEAD DISTRICT

PHANEROZOIC

U.S.	IA	WAUKON (PHA)1-CLEM B	GN	PBI-N	20.69	15.85	40.16	ORE	HDZB66E
U.S.	IA	LASING (PHA)2-TURNER	GN	PBI-N	21.20	15.99	40.81	ORE	HDZB66E
U.S.	IA	GUTTENB. (PHA)3-HOLMES	GN	PBI-N	21.73	15.95	41.27	ORE	HDZB66E
U.S.	IA	ANAMOSA (PHA)A-1	GN	3FI-N	22.652	16.082	41.482	ORE	

KANSAS

U.S.	KS	ROSE DOM (PHA)28GRANIT	GN	PBI-N	22.29	15.96	41.35	ORE	HDZB66E
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KENTUCKY

PHANEROZOIC

ILLINOIS KENTUCKY FLUORITE DISTRICT

PENNSYLVANIAN

U.S.	KY	CLOVER. (PHA)32NODULE	GN	PBI-N	18.38	15.59	38.20	ORE	HDZB66E
U.S.	KY	OLIVE HI (PHA)30CLAY	GN	PBI-N	18.50	15.65	38.54	ORE	HDZB66E
U.S.	KY	OLIVE HI (PHA)31NODULE	GN	PBI-N	18.55	15.65	38.47	ORE	HDZB66E
U.S.	KY	SALEM (PHA)22DYER H	GN	PBI-N	20.22	15.78	39.81	ORE	HDZB66E
U.S.	KY	OLD JAC. (PHA)KH-5-57	GN	PBS-N	20.49	15.80	39.98	ORE	
U.S.	KY	CALDWELL (PHA)23RAG H.	GN	PBI-N	20.87	15.85	40.35	ORE	HDZB66E
U.S.	KY	SALEM (PHA)25DIKE V	GN	PBI-N	20.56	15.87	40.22	ORE	HDZB66E

U.S.	KY	MINERAL (PHA)MINERAL	GN	3FI-N	20.299	15.783	39.869	ORE	
U.S.	KY	SILVER (PHA)AG-11	GN	3FI-N	20.391	15.780	40.005	ORE	
U.S.	KY	SINKS (PHA)S-21	GN	3FI-N	20.471	15.808	40.084	ORE	
U.S.	KY	SENAT. (PHA)70-16	GN	3FI-N	20.899	15.859	40.410	ORE	

MAINE

PHANEROZOIC

U.S.	ME	HARBORSD (PHA) 9737	GN	3FI-N	18.029	15.591	37.844	ORE	
U.S.	ME	BLACK HA (PHA) BLACK HA	GN	3FI-R	18.072	15.612	37.920	ORE	
U.S.	ME	DEER IS. (PHA) C-25	GN	PJB	18.19	15.74	38.44	ORE	R-F 60I
U.S.	ME	BLUEHILL (PHA) HERCULES	GN	3FI-N	18.079	15.609	37.919	ORE	
U.S.	ME	DENBOE P (PHA) C-33	GN	PUB	18.38	15.63	38.74	ORE	R-F 60I
U.S.	ME	DENBOE P (PHA) C-81	GN	PUB	18.40	15.65	38.32	ORE	R-F 60I
U.S.	ME	YORK (PHA) A-42	GN	3FI-R	18.451	15.637	38.308	ORE	

MASSACHUSETTS

PHANEROZOIC

U.S.	MA	QUINCY. (PHA) C-15	GN	PJB	18.41	15.75	38.43	ORE	R-F 60I
U.S.	MA	NEWBURY- (PHA) PORT	GN	3FI-N	18.515	15.653	38.330	ORE	
U.S.	MA	PEMBROKE (PHA) C-13	GN	PUB	18.83	15.77	39.07	ORE	R-F 60I
U.S.	MA	LEVERETT (PHA) C-14	GN	PUB	19.05	15.96	39.34	ORE	R-F 60I

MINNESOTA

PRECAMBRIAN

U.S.	MN	DRILL CORE, DEPTH 257 FT. (W) HV1CN751	GN	3FI-N	15.200	15.084	34.640	ORE	
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MISSISSIPPI

GULF OF MEXICO

MESOZOIC-CENOZOIC

U.S.	MS	PISGAH F (JUR) PB SCALE	GN	3FI-N	18.885	15.642	38.834	ORE	
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MICHIGAN

KEEWEENAWAN (1100M.Y.)

U.S.	MI	WHITE P. (Y) OSU1MILL	WR	PUB	19.67	15.75	39.74	ORE	C-F 67E
U.S.	MI	WHITE P. (Y) OSU4A-DG	WR	PUB	21.80	15.93	41.79	ORE	C-F 67E
U.S.	MI	WHITE P. (Y) OSU6-F32	CC	PUB	18.17	15.07	38.38	ORE	C-F 67E

MISSOURI

PHANEROZOIC

U.S.	MO	AVON (PHA) 27HELLON	GN	PBI-N	21.31	15.91	40.84	ORE	HDZB66E
U.S.	MO	SE.MO. (PHA) SJL-4587	GN	3FI-N	20.776	15.851	39.585	ORE	D-D 72E
U.S.	MO	SE.MO. (PHA) TARR PAR	GN	3FI-N	20.906	15.864	39.724	ORE	D-D 72E
U.S.	MO	SE.MO. (PHA) SJL-702	GN	3FI-N	21.560	15.913	40.556	ORE	D-D 72E
U.S.	MO	SE.MO. (PHA) 64W48	GN	3FI-N	21.022	15.869	39.806	ORE	D-D 72E
U.S.	MO	FLETCHER (PRE) ER66-61	GN	3FI-N	16.129	15.303	35.822	ORE	
U.S.	MO	SE.MO. (PHA) 75D23	GN	3FI-N	21.248	15.910	40.080	ORE	
U.S.	MO	SE.MO. (PHA) 58W57	GN	3FI-N	21.300	15.893	40.198	ORE	D-D 72E
U.S.	MO	SE.MO. (PHA) 75D21	GN	3FI-N	21.429	15.919	40.363	ORE	
U.S.	MO	SE.MO. (PHA) 65W14	GN	3FI-N	20.749	15.834	39.598	ORE	D-D 72E

U.S. MO SE. MO.	(PHA) 26 FREDER	GN	P3I-N	21.63	15.87	40.81	ORE	HD2B66E
U.S. MO CEN. MO.	(PHA) GOLLER	GN	3FI-N	21.980	15.955	41.123	ORE	D-D 72E
U.S. MO SE. MO.	(PHA) PEA RIDG	GN	3FI-N	33.548	17.006	54.100	ORE	D-D 72E

MISSOURI
PRECAMBRIAN

U.S. MO SE. MO.	(X) SILVER M	GN	3FI-N	16.067	15.276	35.763	ORE	D-D 72E
U.S. MO SE. MO.	(X) IRON MTN	GN	3FI-N	16.152	15.299	35.857	ORE	D-D 72E
U.S. MO FLETCHER	(X) ER66-61	GN	3FI-N	16.129	15.303	35.822	ORE	

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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
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LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

MONTANA
MESOZOIC-CENOZOIC

U.S. MT	(M-C) W. FLATEA	GN	3FI-N	16.794	15.296	36.797	ORE	Z-S 71E
U.S. MT	(M-C) BATTLE 3	GN	3FI-N	16.818	15.299	36.811	ORE	Z-S 71E
U.S. MT	(M-C) FLATHEAD	GN	3FI-N	16.831	15.299	36.857	ORE	Z-S 71E
U.S. MT	CASCADE (M-C) LEXING60	GN	MTH-N	17.008	15.444	37.513	ORE	SMAL68TH
U.S. MT	LWS&CLK (M-C) HELENA-2	GN	PBS-N	17.02	15.68	36.92	ORE	MEK 6808
U.S. MT	MIKE HOR (CEN) CH212	GN	MTH-N	17.074	15.490	37.664	ORE	ZAR 74E
U.S. MT	(M-C) SILVER K	GN	MTH-N	17.085	15.368	37.139	ORE	Z-S 71E
U.S. MT	(M-C) HEMLOCK1	GN	3FI-N	17.264	15.513	36.754	ORE	Z-S 71E
U.S. MT	BOULDER (M-C) 2K160ORE	GN	PBS-N	17.277	15.530	38.137	ORE	DTHK68E
U.S. MT	BOULDER (M-C) 2K160GAL	GN	PBS-N	17.293	15.550	38.197	ORE	DTHK68E
U.S. MT	PARK (M-C) 4-7S, 594	GN	MTH-N	17.444	15.581	38.456	ORE	SMAL68TH
U.S. MT	(M-C) 2ND CHAN	GN	MTH-N	17.552	15.510	37.435	ORE	Z-S 71E
U.S. MT	(M-C) LUCKY LO	GN	3FI-N	17.806	15.533	37.487	ORE	Z-S 71E
U.S. MT	LINCOLN (M-C) SNOWSHO1	GN	PUB	17.90	15.33	37.67	ORE	CPAB62G
U.S. MT	BUTTE (M-C) 6807-1	GN	PBS-N	17.920	15.590	38.376	ORE	DTHK68E
U.S. MT	(M-C) LETTERMA	GN	MTH-N	17.924	15.579	37.640	ORE	Z-S 71E
U.S. MT	BUTTE (CEN) 6807-2	GN	PBS-N	17.947	15.610	38.406	ORE	DTHK68E
U.S. MT	AG BOW (M-C) MT. CON13	PY	PUB	17.96	15.60	38.54	ORE	MP 61E
U.S. MT	AG BOW (M-C) MT. CON13	PY	PUB	17.99	15.63	38.52	ORE	MP 61E
U.S. MT	(M-C) STRODTBE	GN	MTH-N	18.001	15.571	38.590	ORE	Z-S 71E
U.S. MT	AG BOW (M-C) ORPH. GRL	GN	PUB	18.01	15.77	38.98	ORE	MP 61E
U.S. MT	AG BOW (M-C) LEXING22	GN	PUB	18.04	15.81	38.96	ORE	MP 61E
U.S. MT	(M-C) SNOWSHO2	GN	MTH-N	18.062	15.508	38.039	ORE	Z-S 71E
U.S. MT	AG BOW (M-C) ANSELM06	GN	PUB	18.07	15.74	38.94	ORE	MP 61E
U.S. MT	AG BOW (M-C) LEONAR17	GN	PUB	18.09	15.80	39.07	ORE	MP 61E
U.S. MT	AG BOW (M-C) LEONARD9	PY	PUB	18.11	15.78	38.95	ORE	MP 61E
U.S. MT	AG BOW (M-C) EMMA-43	GN	PUB	18.13	15.86	38.96	ORE	MP 61E
U.S. MT	BOULDER (M-C) GREGORY	GN	PBS-R	18.14	15.72	38.76	ORE	
U.S. MT	AG BOW (M-C) ANSELM11	GN	PUB	18.19	15.84	39.29	ORE	MP 61E
U.S. MT	BOULDER (M-C) CONSET D.	GN	PBS-R	18.20	15.81	38.94	ORE	
U.S. MT	BOULDER (M-C) EUREKA	GN	PBS-R	18.20	15.94	39.26	ORE	

U.S. MT BOULDER	(M-C)ALTA	GN	PBS-R	18.23	15.87	39.20	ORE	
U.S. MT BOULDER	(M-C)FREE COI	GN	PBS-R	18.27	15.85	38.85	ORE	
U.S. MT BOULDER	(M-C)KI.SOLOM	GN	PBS-R	18.28	15.71	38.69	ORE	
U.S. MT BOULDER	(M-C)51B295E	GN	PBS-R	18.38	15.90	39.25	ORE	
U.S. MT BOULDER	(M-C)IDA MAY	GN	PBS-R	18.50	15.94	39.35	ORE	
U.S. MT	(M-C)GOLDEN W	GN	MTH-N	18.554	15.604	38.565	ORE	Z-S 71E
U.S. MT	(M-C)BLUE BIR	GN	MTH-N	18.237	15.583	38.235	ORE	Z-S 71E
U.S. MT	(M-C)MORN. ST	GN	MTH-N	18.363	15.607	38.369	ORE	Z-S 71E
U.S. MT	(M-C)GLACIER1	GN	3FI-N	18.372	15.571	38.255	ORE	Z-S 71E
U.S. MT	(M-C)FISHER C	GN	3FI-N	18.373	15.563	38.455	ORE	Z-S 71E
U.S. MT	(M-C)ALDER GU	GN	PBS-R	19.31	16.16	42.29	ORE	
U.S. MT LWS&CLK	(M-C)3FORKS1U	GN	PBS-N	19.97	15.96	40.49	ORE	MEK 68UP
U.S. MT LWS&CLK	(M-C)3FORKS1U	GN	PBS-N	19.80	15.85	40.12	ORE	MEK 68UP
U.S. MT LWS&CLK	(M-C)FLATHE11	GN	PBS-N	23.15	16.09	43.44	ORE	MEK 68UP

MONTANA
PRECAMBRIAN

U.S. MT PARK	(Y)IRMA 595	GN	MTH-N	16.173	15.316	36.768	ORE	SMAL68TH
U.S. MT	(Y)JIM FISK	GN	3FI-N	16.253	15.368	35.948	ORE	Z-S 71E
U.S. MT	(Y)JACK WAI	GN	3FI-N	16.262	15.388	35.937	ORE	Z-S 71E
U.S. MT	(Y)DUPLEX	GN	MTH-N	16.288	15.389	35.937	ORE	Z-S 71E
U.S. MT	(Y)BROKEN H	GN	MTH-N	16.289	15.390	35.954	ORE	Z-S 71E
U.S. MT	(Y)ST. PAUL	GN	MTH-N	16.292	15.390	35.962	ORE	Z-S 71E
U.S. MT	(Y)LOST CAB	GN	MTH-N	16.298	15.394	35.966	ORE	Z-S 71E
U.S. MT	(Y)MONT. STD	GN	MTH-N	16.309	15.426	36.054	ORE	Z-S 71E
U.S. MT	(Y)SILVER B	GN	MTH-N	16.316	15.406	36.016	ORE	Z-S 71E
U.S. MT	(Y)BIGB-161	GN	3FI-N	16.318	15.399	35.996	ORE	Z-S 71E
U.S. MT	(Y)NANCY LE	GN	MTH-N	16.320	15.402	36.014	ORE	Z-S 71E
U.S. MT	(Y)JAGER-17	GN	3FI-N	16.325	15.381	36.101	ORE	Z-S 71E
U.S. MT	(Y)TRIO	GN	MTH-N	16.357	15.405	36.046	ORE	Z-S 71E
U.S. MT	(Y)HOLIDAY	GN	MTH-N	16.361	15.420	36.066	ORE	Z-S 71E
U.S. MT	(Y)HIAWATHA	GN	3FI-N	16.364	15.411	36.045	ORE	Z-S 71E
U.S. MT LWS&CLK	(Y)HELEN127	GN	PBS-N	16.44	15.32	35.84	ORE	MEK 68UP
U.S. MT	(Y)GILDERSL	GN	MTH-N	16.449	15.406	36.116	ORE	Z-S 71E
U.S. MT LWS&CLK	(Y)HELENA11	GN	PBS-N	16.45	15.43	36.15	ORE	MEK 68UP
U.S. MT	(Y)JUMBO	GN	3FI-N	16.469	15.403	36.147	ORE	Z-S 71E
U.S. MT	(Y)BLACKTAI	GN	MTH-N	16.514	15.417	36.126	ORE	Z-S 71E
U.S. MT JDTH BSN	(Y)BLOCK 59	GN	MTH-N	16.573	15.380	37.329	ORE	SMAL68TH
U.S. MT	(Y)ROCK ISL	GN	3FI-N	16.599	15.450	36.295	ORE	Z-S 71E
U.S. MT LWS&CLK	(Y)SPOKAN12	GN	PBS-N	16.67	15.63	36.90	ORE	MEK 68UP
U.S. MT JDTH BSN	(Y)TIGER601	GN	MTH-N	16.680	15.381	37.354	ORE	SMAL68TH
U.S. MT CASCADE	(Y)BOSS-601	GN	MTH-N	16.983	15.417	37.412	ORE	SMAL68TH
U.S. MT LWS&CLK	(Y)HELEN125	GN	PBS-N	16.98	15.57	36.83	ORE	MEK 68UP
U.S. MT	(Y)L.PITTSB	GN	3FI-N	16.725	15.434	36.459	ORE	Z-S 71E
U.S. MT	(Y)HIGHLAND	GN	3FI-N	16.805	15.700	36.496	ORE	
U.S. MT	(Y)HIGHLAND	GN	3FI-N	16.817	15.671	36.466	ORE	

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LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

NEVADA
MESOZOIC-CENOZOIC

U.S. NV	RUBY VAL (M-C)	LAMOILLE	GN	3FI-N	18.317	15.695	38.553	ORE	ZART74E
U.S. NV	PIOCHE (M-C)	COMET	GN	3FI-N	18.527	15.630	38.349	ORE	ZART74E
U.S. NV	PIOCHE (M-C)	PAN AMER	GN	3FI-N	18.595	15.685	39.581	ORE	ZART74E
U.S. NV	(M-C)	FERBER-9	GN	3FI-R	18.666	15.756	40.032	ORE	
U.S. NV	(M-C)	FERBER-1	GN	3FI-R	18.670	15.754	40.023	ORE	
U.S. NV	(M-C)	FERBER-1	CE	3FI-N	18.678	15.769	40.087	ORE	
U.S. NV	CORTEZ (M-C)	RUBY63W5	GN	3FI-N	18.689	15.726	38.607	ORE	RDW 74UP
U.S. NV	OREENA (M-C)	UNION MI	GN	3FI-N	18.713	15.625	38.490	ORE	ZART74E
U.S. NV	QUINN CA (M-C)	DRESSER	GN	3FI-N	18.886	15.640	39.077	ORE	ZART74E
U.S. NV	LEADVILL (M-C)	LEADVILL	GN	3FI-N	18.913	15.621	38.566	ORE	ZART74E
U.S. NV	PYRAMID (M-C)	DOMINION	GN	3FI-N	18.963	15.628	38.678	ORE	ZART74E
U.S. NV	(M-C)	GOLDHILL	GN	3FI-R	18.968	15.696	40.293	ORE	
U.S. NV	RED MTN. (M-C)	RED MTN1	GN	3FI-N	19.034	15.663	38.969	ORE	ZART74E
U.S. NV	TUNGSTEN (M-C)	WHEELER	GN	3FI-N	19.104	15.701	38.985	ORE	RDW 74UP
U.S. NV	TUNGSTEN (M-C)	MT. WHEEL	GN	3FI-N	19.161	15.692	38.950	ORE	ZART74E
U.S. NV	LONE MTN (M-C)	AU EAGLE	GN	3FI-N	19.164	15.668	38.922	ORE	ZART74E
U.S. NV	TONOPAH (M-C)	MACKA376	GN	3FI-N	19.188	15.659	38.909	ORE	ZART74E
U.S. NV	BATTLE M (M-C)	COPPER B	GN	3FI-N	19.217	15.675	38.950	ORE	ZART74E
U.S. NV	BATTLE M (M-C)	WHITE SH	GN	3FI-N	19.260	15.686	38.999	ORE	RDW 74UP
U.S. NV	CORTEZ (M-C)	H50B	GN	3FI-N	19.269	15.674	38.959	ORE	RDW 74UP
U.S. NV	(M-C)	DUTCH M1	GN	3FI-R	19.282	15.752	38.964	ORE	
U.S. NV	MILLETT (M-C)	TOYABE-4	GN	3FI-N	19.310	15.695	39.073	ORE	ZART74E
U.S. NV	ELKO R.R (M-C)	ALADDIN2	GN	3FI-N	19.337	15.805	39.996	ORE	
U.S. NV	(M-C)	AVH-753	CE	3FI-N	19.484	15.753	39.666	ORE	
U.S. NV	BULLION (M-C)	AU ACRES	GN	3FI-N	19.503	15.719	39.015	ORE	ZART74E
U.S. NV	AURA (M-C)	66NC53	GN	3FI-N	19.519	15.816	39.073	ORE	ZART74E
U.S. NV	ELKO (M-C)	MITCH. 68	GN	MTH-N	19.586	15.751	39.561	ORE	SMAL68TH
U.S. NV	ELKO (M-C)	DELNO 69	GN	MTH-N	19.586	15.754	39.589	ORE	SMAL68TH
U.S. NV	ELKO (M-C)	DELNO701	GN	3FI-N	19.682	15.763	39.743	ORE	ZART74E
U.S. NV	CARLIN (M-C)	L-2-10	GN	3FI-R	19.724	15.825	39.338	ORE	
U.S. NV	CORTEZ (M-C)	64W25	GN	P3S-N	18.64	15.72	38.30	ORE	RDW 74UP
U.S. NV	RUBY MT. (M-C)	65W61	GN	P3S-N	18.71	15.74	38.71	ORE	RDW 74UP
U.S. NV	ROBINSON (M-C)	LIBERTY	GN	PBI-N	19.02	15.67	38.69	ORE	
U.S. NV	BATTLE M (M-C)	NEVADA 4	GN	PBS-N	19.04	15.45	38.23	ORE	RDW 74UP
U.S. NV	WARD (M-C)	WELCOME	GN	PBI-N	19.10	15.76	39.81	ORE	
U.S. NV	WHITE P. (M-C)	WHEELER	GN	PBS-N	19.15	15.68	39.10	ORE	RDW 74UP
U.S. NV	BATTLE M (M-C)	WHITE SH	GN	PBI-N	19.20	15.67	38.92	ORE	
U.S. NV	BATTLE M (M-C)	IRON CAN	AU	P3S-N	19.24	15.58	38.65	ORE	RDW 74UP
U.S. NV	LEWIS (M-C)	BETTY ON	GN	PBI-N	19.28	15.67	38.96	ORE	
U.S. NV	EUREKA (M-C)	DIAMOND	GN	PBI-N	19.30	15.71	38.65	ORE	
U.S. NV	NYE COUN (M-C)	TYBO	GN	PBI-N	19.30	15.71	39.14	ORE	
U.S. NV	ELKO R.R (M-C)	ALADDIN	GN	PBI-N	19.30	15.80	39.91	ORE	
U.S. NV	ELKO R.R (M-C)	ALADDIN2	GN	PBI-N	19.32	15.82	39.95	ORE	
U.S. NV	CORTEZ (M-C)	CORTEZ A	GN	P3S-N	19.34	15.64	38.71	ORE	RDW 74UP
U.S. NV	CORTEZ (M-C)	CORTEZ A	GN	PBI-N	19.35	15.77	39.13	ORE	
U.S. NV	CORTEZ (M-C)	FALCONER	GN	PBI-N	19.40	15.72	39.05	ORE	

U.S. NV	CORTEZ	(M-C)J96C	GN	PBS-N	19.42	15.71	38.79	ORE	RDW	74UP
U.S. NV	BULLION	(M-C)GRAY EAG	GN	PBI-N	19.43	15.75	39.15	ORE		
U.S. NV	CORTEZ	(M-C)J120H	GN	PBS-N	19.45	15.75	38.94	ORE	RDW	74UP
U.S. NV	BULLION	(M-C)CLIPPER	GN	PBI-N	19.46	15.72	39.04	ORE		
U.S. NV	CORTEZ	(M-C)P-1PROS.	GN	PBI-N	19.44	15.78	39.08	ORE		
U.S. NV	CORTEZ	(M-C)ROSSI CL	GN	PBI-N	19.46	15.73	38.84	ORE		
U.S. NV	CORTEZ	(M-C)J109A	GN	PBS-N	19.47	15.76	38.98	ORE	RDW	74UP
U.S. NV	CORTEZ	(M-C)AG PRIZE	GN	PBS-N	19.53	15.73	39.09	ORE	RDW	74UP
U.S. NV	CORTEZ	(M-C)PROSPECT	GN	PBI-N	19.54	15.77	39.13	ORE		
U.S. NV	CORTEZ	(M-C)ROSSI CL	GN	PBI-N	19.54	15.78	39.07	ORE		
U.S. NV	CARLIN	(M-C)L-2-10	GN	PBS-N	19.77	15.87	39.51	ORE	RDW	74UP

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LOCATION (AGE)SAMPLE NO. METHOD 206/204 207/204 208/204TYPE REFER.

NEW HAMPSHIRE
PHANEROZOIC

U.S. NH		(PHA)SHELburn	GN	3FI-N	18.500	15.621	38.416	ORE		
U.S. NH	GRAFTON	(PHA)C-82	GN	PUB	18.53	15.96	38.50	ORE	R-F	60I
U.S. NH		(PHA)MADISON	GN	3FI-N	18.613	15.624	38.504	ORE		

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LOCATION (AGE)SAMPLE NO. METHOD 206/204 207/204 208/204TYPE REFER.

NEW JERSEY

PHANEROZOIC

U.S. NJ	CALIFON	(PHA)GERMAN-3	GN	PBI-N	18.55	15.57	38.11	ORE	HDZB	66E
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1200 M.Y.

U.S. NJ	STERLING	(Y)STERLING	GN	3FI-N	16.924	15.445	36.297	ORE		
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NEW MEXICO

PHANEROZOIC

U.S. NM	AU HILL	(M-C)GH181-75	GN	3FI-N	17.255	15.461	38.405	ORE		
U.S. NM	AU HILL	(M-C)GH38-75	GN	3FI-N	17.497	15.485	38.494	ORE		
U.S. NM	TOM. LE M	(M-C)II	GN	MTH-N	17.75	15.52	37.76	ORE	S-A	62F
U.S. NM	KINGSTON	(PHA)FE KING	GN	3FI-N	17.726	15.486	38.003	ORE		
U.S. NM	KINGSTON	(PHA)VIRGINIA	GN	3FI-N	17.876	15.507	38.156	ORE		
		INDEPENDENCE MINE								
U.S. NM	MOGOLLON	(CEN)NM3552	GN	3FI-N	17.739	15.538	39.062	ORE		

CO-OP MINE

U.S. NM, AU HILL (M-C) GH147-75	GN 3FI-N	17.749	15.482	38.471	ORE
U.S. NM, CARPENT. (PHA) ROY. JOHN	GN 3FI-N	17.885	15.494	38.026	ORE
U.S. NM, WILLOW #2 (M-C) 11	GN MTH-N	18.29	15.60	38.30	ORE S-A 62E
U.S. NM, MITCHEL (M-C) 4	GN MTH-N	18.38	15.57	38.14	ORE S-A 62E
U.S. NM, PROTECTO (M-C) SP-117	GN 3FI-N	19.580	15.678	39.544	ORE
U.S. NM, LINCHBUR (M-C) #3622	GN 3FI-N	18.462	15.576	38.309	ORE
U.S. NM, LINCHBUR (M-C) 1	GN MTH-N	18.40	15.59	38.24	ORE S-A 62E
U.S. NM, ALAMOGOR (M-C) 10	GN MTH-N	18.42	15.60	38.69	ORE S-A 62E
U.S. NM, JUANITA (M-C) #93	GN 3FI-N	18.462	15.576	38.309	ORE
U.S. NM, JUANITA (M-C) 2	GN MTH-N	18.50	15.59	38.39	ORE S-A 62E
U.S. NM, WOOD'S T (M-C) 8	GN MTH-N	18.55	15.57	38.19	ORE S-A 62E
U.S. NM, JACK FRO (M-C) 3	GN MTH-N	18.61	15.57	38.52	ORE S-A 62E
U.S. NM, KELLY (M-C) 12	GN MTH-N	18.63	15.61	38.34	ORE S-A 62E
U.S. NM, MIDNIGHT (M-C) 5	GN MTH-N	18.67	15.56	38.58	ORE S-A 62E
U.S. NM, COUNCIL (M-C) 7-1	GN MTH-N	18.74	15.58	38.49	ORE S-A 62E
U.S. NM, MILL CAN (M-C) 6	GN MTH-N	18.76	15.66	38.50	ORE S-A 62E
U.S. NM, MOCKINGB (M-C) 9	GN MTH-N	18.85	15.61	38.91	ORE S-A 62E
U.S. NM, COUNCIL (M-C) 7-2	GN MTH-N	18.87	15.65	38.72	ORE S-A 62E
U.S. NM, EAGLE NE (M-C) M	GN MTH-N	19.19	15.66	39.06	ORE S-A 62E
U.S. NM, TAYLOR (M-C) L	GN MTH-N	19.34	15.72	39.26	ORE S-A 62E
U.S. NM, DLK. KNIF (M-C) K	GN MTH-N	19.91	15.76	39.84	ORE S-A 62E
RED SANDSTONE COPPER					
U.S. NM, NACIMIEN (TRI) 74WD-1	NR GEL-N	20.035	15.754	38.874	ORE
U.S. NM, BOX CAN. (M-C) D	GN MTH-N	20.56	15.78	39.62	ORE S-A 62E
U.S. NM, HANSONB. (M-C) 13	GN MTH-N	20.78	15.76	39.29	ORE S-A 62E
U.S. NM, SMALLWOOD (M-C) J	GN MTH-N	20.92	15.88	40.42	ORE S-A 62E
U.S. NM, HANSONB. (M-C) MCCARTY	GN 3FI-N	22.260	15.914	40.143	ORE
U.S. NM, HANSONB. (M-C) 10	GN MTH-N	21.05	15.86	39.46	ORE S-A 62E
U.S. NM, JOYITA (M-C) #3636	GN 3FI-N	20.985	15.813	40.525	ORE
U.S. NM, JOYITA (M-C) E	GN MTH-N	21.09	15.82	40.69	ORE S-A 62E
U.S. NM, HANSONB. (M-C) 24	GN MTH-N	21.58	15.90	40.33	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-22	GN MTH-N	21.61	15.96	40.21	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-3	GN MTH-N	21.62	15.95	40.23	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-23	GN MTH-N	21.65	15.94	40.42	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-9	GN MTH-N	21.71	15.92	39.85	ORE S-A 62E
U.S. NM, LADRONE (M-C) G	GN MTH-N	21.72	15.89	40.90	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-6	GN MTH-N	21.85	15.91	39.97	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-14	GN MTH-N	21.98	15.88	40.12	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-12	GN MTH-N	22.00	15.96	40.16	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-15	GN MTH-N	22.05	15.86	40.32	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-2	GN MTH-N	22.05	15.99	40.32	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-5	GN MTH-N	22.06	15.97	40.20	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-26	GN MTH-N	22.08	15.88	40.35	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-27	GN MTH-N	22.09	15.88	40.46	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-4	GN MTH-N	22.10	15.92	40.29	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-25	GN MTH-N	22.12	15.89	40.33	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-1	GN MTH-N	22.14	15.92	40.25	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-16	GN MTH-N	22.15	15.89	40.12	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-19	GN MTH-N	22.18	15.84	40.10	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-17	GN MTH-N	22.23	15.92	40.07	ORE S-A 62E
U.S. NM, HANSONB. (M-C) A-11	GN MTH-N	22.23	16.01	40.49	ORE S-A 62E
U.S. NM, GOLDSTAR (CEN) GS-3	GN 3FI-N	17.726	15.482	37.717	ORE
U.S. NM, UNION HI (CEN) SR-1-75	GN 3FI-N	17.736	15.495	37.858	ORE

U.S. NM	CHLORIDE (CEN) SC-1-75	GN 3FI-N	18.080	15.503	38.304	ORE	
U.S. NM	HANSONB. (M-C) A-18	GN MTH-N	22.32	15.95	40.14	ORE	S-A 62E
U.S. NM	GONZALES (M-C) C	GN MTH-N	22.30	15.98	40.66	ORE	S-A 62E
U.S. NM	HANSONB. (M-C) A-7	GN MTH-N	22.32	16.02	40.27	ORE	S-A 62E
U.S. NM	HANSONB. (M-C) A-21	GN MTH-N	22.40	15.96	40.28	ORE	S-A 62E
U.S. NM	HANSONB. (M-C) A-20	GN MTH-N	22.41	15.79	40.34	ORE	S-A 62E
U.S. NM	HANSONB. (M-C) A-8	GN MTH-N	22.52	15.98	40.45	ORE	S-A 62E
U.S. NM	RHODES C (M-C) P	GN MTH-N	22.89	16.09	41.28	ORE	S-A 62E
U.S. NM	PALOMAS (M-C) N	GN MTH-N	23.08	16.08	43.96	ORE	S-A 62E
U.S. NM	SALINAS (M-C) F-2	GN MTH-N	23.30	15.98	41.64	ORE	S-A 62E
U.S. NM	SALINAS (M-C) F-1	GN MTH-N	23.45	16.02	41.73	ORE	S-A 62E
U.S. NM	SALINAS (M-C) F-5	GN MTH-N	23.53	16.05	41.81	ORE	S-A 62E
U.S. NM	MADDOX V (M-C) H	GN MTH-N	23.56	16.06	41.62	ORE	S-A 62E
U.S. NM	SALINAS (M-C) F-3	GN MTH-N	23.56	16.06	41.91	ORE	S-A 62E
U.S. NM	SALINAS (M-C) F-4	GN MTH-N	23.59	16.03	41.64	ORE	S-A 62E
U.S. NM	LA BONIT (M-C) B	GN MTH-N	25.22	16.19	42.23	ORE	S-A 62E

1400 M.Y.

U.S. NM	BOSQUE D. Y. I	GN MTH-N	16.06	15.32	35.69	ORE	S-A 62E
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1700 M.Y.

MASSIVE SULFIDE DEPOSIT

U.S. NM	PECOS (X) TERRARO	GN 3FI-N	15.606	15.260	35.236	ORE	
U.S. NM	PECOS (X) JONES M.	GN 3FI-N	15.705	15.304	35.328	ORE	

NEW YORK

1200 M.Y.

U.S. NY	BALMAT (Y) 75J-11	GN 3FI-N	16.941	15.502	36.452	ORE	
U.S. NY	BALMAT (Y) F-19	GN 3FI-N	16.944	15.511	36.465	ORE	
U.S. NY	BALMAT (Y) F-19	GN 3FI-N	16.935	15.505	36.423	ORE	SDU 69L

NORTH CAROLINA
PHANEROZOIC

U.S. NC	AG HILL (PHA) C26	GN PUB	18.19	15.36	38.44	ORE	R-F 60I
U.S. NC	HAMME W. (PHA) HW104-U	GN 3FI-N	18.337	15.600	38.071	ORE	
U.S. NC	YANCY CT (PHA) T421	GN PUB	18.43	15.71	38.40	ORE	R-F 60I
U.S. NC	HENDERSO (PHA) C130	GN PUB	18.53	15.78	38.62	ORE	R-F 60I
U.S. NC	HAMME (PHA) HW-54U	GN 3FI-N	18.324	15.610	38.093	ORE	

OKLAHOMA
PHANEROZOIC

U.S. OK	PITCHER (PHA) BLUE GOO	GN 3FI-N	21.942	15.920	41.076	ORE	
U.S. OK	PITCHER (PHA) BLUE GOO	GN 3FI-N	21.901	15.922	41.072	ORE	

OREGON

MESOZOIC-CENOZOIC

U.S.,OR,BRATTAIN(CEN)GAYLORD	GN	3FI-N	18.970	15.626	38.648	ORE	ZART74E
U.S.,OR,BOHEMIA (CEN)MUSIK	GN	3FI-N	18.915	15.604	38.636	ORE	ZART74E
U.S.,OR,(CEN)ACCIDENT	GN	3FI-N	18.842	15.566	38.502	ORE	

PENNSYLVANIA
PHANEROZOIC

PENNSYLVANIAN

U.S.,PA,SINK VAL(PHA)33BIRM.	GN	PBI-N	18.48	15.60	38.52	ORE	HDZB66E
U.S.,PA,BAMFORD (PHA)35BAMFUR	GN	PBI-N	18.61	15.64	38.42	ORE	HDZB66E
U.S.,PA,PHENIXVI(PHA)C98PERKI	GN	PUB	18.71	15.61	38.97	ORE	R-F 60I
U.S.,PA,PHENIXVI(PHA)C97WHEAT	GN	PUB	18.75	15.71	38.83	ORE	R-F 60I
U.S.,PA,PHENIXVI(PHA)C24WHEAT	GN	PUB	18.83	15.79	39.06	ORE	R-F 60I
U.S.,PA,PHENIXVI(PHA)C23	GN	PJB	18.83	15.93	39.54	ORE	R-F 60I
U.S.,PA,FRIEDEN.(PHA)C43LOCAL	GN	PUB	19.24	15.67	39.65	ORE	R-F 60I

SOUTH DAKOTA
MESOZOIC-CENOZOIC

U.S.,SD,BLK.HILL(CEN)D-RAINBO	GN	3FI-N	18.434	15.677	38.196	GAL	RDD 74E
U.S.,SD,BLK.HILL(CEN)RYE236	GN	3FI-N	18.438	15.666	38.208	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)ECHO-287	GN	3FI-N	18.592	15.677	38.326	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)RYE235	GN	3FI-N	18.712	15.676	38.237	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)RYE-233	GN	3FI-N	18.749	15.703	38.309	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)CEN.CITY	GN	3FI-N	19.003	15.747	38.341	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)AJAX-150	GN	3FI-N	19.139	15.762	38.481	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)RYE-234	GN	3FI-N	19.158	15.721	38.443	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)174	GN	3FI-N	19.732	15.829	38.603	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)183	GN	3FI-N	20.073	15.871	38.744	ORE	RDD 74E
U.S.,SD,BLK.HILL(CEN)68-69A	GN	3FI-N	20.858	15.992	38.689	ORE	RDD 74E

1600 M.Y.

U.S.,SD,HOMESTAK(X)RYE-22	GN	3FI-N	15.653	15.375	35.415	GAL	RDD 74E
U.S.,SD,HOMESTAK(X)K-141A	GN	3FI-N	16.087	15.470	35.473	ORE	RDD 74E
U.S.,SD,HOMESTAK(X)RYE-229	GN	3FI-N	16.094	15.460	35.551	ORE	RDD 74E
U.S.,SD,HOMESTAK(X)RYE-232	GN	3FI-N	16.118	15.481	35.478	ORE	RDD 74E
U.S.,SD,HOMESTAK(X)CLOVERL'	GN	3FI-N	16.517	15.595	35.491	ORE	RDD 74E
U.S.,SD,HOMESTAK(X)HOMESTAK	AJ	GEL-N	17.694	15.560	37.614	ORE	RDD 74E

TENNESSEE

PHANEROZOIC

EAST AND CENTRAL TENNESSEE DISTRICT

U.S.,TN,FLAT GAP(ORD)36FLAT G	GN	PBI-N	19.04	15.65	39.18	ORE	HDZB66E
U.S.,TN,EMBREE. (ORD)37JACKSO	GN	PBI-N	19.33	15.70	38.98	ORE	HDZB66E
U.S.,TN,MASCOT (ORD)C66MASCO	GN	PUB	19.56	15.77	39.66	ORE	R-F 60I
U.S.,TN,WARREN C(ORD)C67MC-MI	GN	PUB	20.04	15.85	39.74	ORE	R-F 60I

PRECAMBRIAN
DUCKTOWN DISTRICT

U.S.,TN,DUCKTOWN(Z)EUREKA M GN PUB-N	18.41	15.71	38.02	GAL	KINK67UP
U.S.,TN,DUCKTOWN(Z)MARY MIN GN PUB-N	18.49	15.70	38.07	ORE	KINK67UP
U.S.,TN,DUCKTOWN(Z)CALLOWAY GV PUB-N	18.46	15.64	37.79	ORE	KINK67UP

ORES

ORES

ORES

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE)SAMPLE NO.METHOD 206/204 207/204 208/204TYPE REFER.

TEXAS
PHANEROZOIC

U.S.,TX, (PHA)SILVER C GN 3FI-R	18.187	15.536	37.804	GAL	
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UTAH
MESOZOIC-CENOZOIC

U.S.,UT,OQUIRR (M-C)LARK VEI GN MTH-N	17.516	15.578	38.235	ORE	SZNK68E
-112 08.55 40 31.00					
U.S.,UT,OQUIRR (M-C)LARK APE GN MTH-N	17.591	15.586	38.271	ORE	SZNK68E
-112 08.55 40 31.00					
U.S.,UT,OQUIRR (M-C)U.S. 200 GN MTH-N	17.718	15.588	38.272	ORE	SZNK68E
-112 07.62 40 30.00					
U.S.,UT,PARK CTY(M-C)APEX GN MTH-N	17.795	15.571	38.155	ORE	SZNK68E
-111 32.42 40 37.40					
U.S.,UT,PARK CTY(M-C)COMSTOCK GN MTH-N	17.818	15.568	38.255	ORE	SZNK68E
-111 32.50 40 37.37					
U.S.,UT,OQUIRR (M-C)U.S.B LM GN MTH-N	17.834	15.611	38.383	ORE	SZNK68E
-112 07.62 40 30.00					
U.S.,UT,PARK CTY(M-C)AG KING GN MTH-N	17.875	15.575	38.211	ORE	SZNK68E
-111 32.00 40 37.00					
U.S.,UT,OQUIRR (M-C)ARGENT GN MTH-N	17.906	15.636	38.565	ORE	SZNK68E
-112 20.00 40 27.00					
U.S.,UT,OQUIRR (M-C)HIDDEN T GN MTH-N	17.919	15.612	38.459	ORE	SZNK68E
-112 16.00 40 23.00					
U.S.,UT,PARK CTY(M-C)MAYFLOWE GN MTH-N	17.934	15.598	38.298	ORE	SZNK68E
-111 23.00 40 36.00					
U.S.,UT,PARK CTY(M-C)JUDGE TJ GN MTH-N	17.958	15.584	38.225	ORE	SZNK68E
-111 30.17 40 37.59					
U.S.,UT,PARK CTY(M-C)ONT.SFT# GN MTH-N	17.948	15.601	38.273	ORE	SZNK68E
-111 26.00 40 38.00					
U.S.,UT,PARK CTY(M-C)ONT.DUMP GN MTH-N	18.029	15.611	38.362	ORE	SZNK68E
-111 26.00 40 38.00					
U.S.,UT,PARK CTY(M-C)EMMA TUN GN MTH-N	18.033	15.601	38.433	ORE	SZNK68E
-111 37.87 40 35.53					
U.S.,UT,MILFORD (M-C)HORNSILV GN MTH-N	18.039	15.553	38.100	ORE	SZNK68E

-113	31.53	38	26.97						
U.S.	UT	QUIRR	(M-C)WAND. JEW	GN	MTH-N	18.283	15.651	38.661	ORE SZNK68E
-112	16.00	40	22.00						
U.S.	UT	MILFORD	(M-C)WASHINGT	GN	MTH-N	18.315	15.593	38.583	ORE SZNK68E
-113	17.97	38	27.50						
U.S.	UT	MILFORD	(M-C)REBEL	GN	MTH-N	18.349	15.597	38.302	ORE SZNK68E
-113	06.09	38	23.53						
	1900 LEVEL								
U.S.	UT	QUIRR	(M-C)OPHIR HI	GN	MTH-N	18.352	15.665	38.747	ORE SZNK68E
-112	15.33	40	21.67						
U.S.	UT	TINTIC	(M-C)CHIEF #1	GN	MTH-N	18.383	15.611	38.624	ORE SZNK68E
U.S.	UT	MILFORD	(M-C)HARR.HIC	GN	MTH-N	18.390	15.580	38.316	ORE SZNK68E
-113	06.09	38	23.29						
U.S.	UT	TINTIC	(M-C)SHOEB.BU	GN	MTH-N	18.420	15.609	38.631	ORE SZNK68E
-112	05.67	39	53.67						
U.S.	UT	PARK CTY	(M-C)MAY.PEAR	GN	MTH-N	18.426	15.663	38.615	ORE SZNK68E
-111	23.00	40	36.00						
U.S.	UT	TINTIC	(M-C)SUNBEAM	GN	MTH-N	18.436	15.607	38.623	ORE SZNK68E
-112	06.67	39	54.55						
U.S.	UT	MILFORD	(M-C)N.MOSCOW	GN	MTH-N	18.467	15.620	39.398	ORE SZNK68E
-113	08.92	38	21.60						
U.S.	UT	TINTIC	(M-C)SHOWERS	GN	MTH-N	18.474	15.616	38.681	ORE SZNK68E
-112	05.60	39	53.42						
U.S.	UT	MILFORD	(M-C)O.MOSCOW	GN	MTH-N	18.484	15.619	39.323	ORE SZNK68E
-113	08.92	38	20.60						
U.S.	UT	TINTIC	(M-C)BECK T.#	GN	MTH-N	18.500	15.621	38.686	ORE SZNK68E
-112	05.83	39	56.45						
	1000 LEVEL								
U.S.	UT	QUIRR	(M-C)OPHIR HI	GN	MTH-N	18.503	15.681	38.807	ORE SZNK68E
-112	15.33	40	21.67						
U.S.	UT	MILFORD	(M-C)POLOMA	GN	MTH-N	18.513	15.611	39.215	ORE SZNK68E
-113	09.27	38	21.63						
U.S.	UT	TINTIC	(M-C)COLO.NO.	GN	MTH-N	18.527	15.621	38.700	ORE SZNK68E
-112	05.67	39	56.17						
U.S.	UT	MILFORD	(M-C)MOWITZA	GN	MTH-N	18.529	15.617	39.261	ORE SZNK68E
-113	09.00	38	21.00						
U.S.	UT	TINTIC	(M-C)BECK T.#	GN	MTH-N	18.554	15.623	38.717	ORE SZNK68E
-112	05.80	39	56.63						
U.S.	UT	TINTIC	(M-C)SWANSEA	GN	MTH-N	18.557	15.627	38.713	ORE SZNK68E
-112	07.90	39	54.83						
U.S.	UT	WASHINGT	(M-C)VIRGIN R	GN	PBI-N	18.56	15.62	38.41	ORE
U.S.	UT	TINTIC	(M-C)BURGIN M	GN	MTH-N	18.567	15.630	38.668	ORE SZNK68E
-112	02.92	39	57.02						
U.S.	UT	PARK CTY	(M-C)CARDIFF	GN	MTH-N	18.584	15.682	38.739	ORE SZNK68E
-111	39.49	40	37.12						
U.S.	UT	PARK CTY	(M-C)PRICE T.	GN	MTH-N	18.584	15.682	38.739	ORE SZNK68E
-111	39.49	40	37.12						
U.S.	UT	TINTIC	(M-C)BURGIN D	GN	MTH-N	18.606	15.632	38.685	ORE SZNK68E
-112	02.92	39	57.022						
U.S.	UT	GOLD HIL	(M-C)GARRISON	GN	3FI-N	18.670	15.707	38.375	ORE
-113	50.00	40	14.70						
U.S.	UT	SUMMERVI	(M-C)N.SUMMER	GN	3FI-N	18.740	15.636	38.777	ORE ZART74E
U.S.	UT	TINTIC	(M-C)MURPHY'S	GN	MTH-N	18.792	15.657	38.921	ORE SZNK68E
-112	22.00	39	50.00						

U.S.,UT,MILFORD (M-C)PINE VAL	GN MTH-N	18.815	15.671	39.616	ORE SZNK68E
U.S.,UT,MILFORD (M-C)HOOSIER	GN MTH-N	18.851	15.641	39.344	ORE SZNK68E
-113 09.23 38 21.63					
U.S.,UT,MILFORD (M-C)CROFT	GN MTH-N	18.919	15.647	38.990	ORE SZNK68E
-112 53.00 38 15.00					
U.S.,UT,MILFORD (M-C)SALINA	GN MTH-N	18.966	15.646	38.933	ORE SZNK68E
-111 50.00 39 02.00					
U.S.,UT,GOLD HIL(M-C)PALMERS	GN 3FI-N	19.015	15.741	38.856	ORE
-113 48.60 40 11.00					
U.S.,UT,MILFORD (M-C)VIKSBURG	GN MTH-N	19.116	15.673	40.031	ORE SZNK68E
-113 05.77 38 21.47					
U.S.,UT,MILFORD (M-C)POLOMA	GN MTH-N	19.233	15.681	39.050	ORE SZNK68E
-113 09.23 38 21.63					
U.S.,UT,TINTIC (M-C)ROCKWELL	GN MTH-N	19.236	15.705	39.428	ORE SZNK68E
-112 24.93 39 51.53					
U.S.,UT,TINTIC (M-C)ROCKWELL	GN 3FI-R	19.243	15.708	39.434	ORE
U.S.,UT,CHERRY C(M-C)CHERRY C	GN 3FI-R	19.269	15.778	40.124	ORE
U.S.,UT,TINTIC (M-C)SPOTTED	GN 3FI-R	19.318	15.772	39.021	ORE
-113 50.30 40 13.10					
U.S.,UT,GOLD HIL(M-C)SCOTIA	GN 3FI-R	19.328	15.716	39.126	ORE
U.S.,UT,MILFORD (M-C)BLUE STA	GN MTH-N	19.374	15.684	38.709	ORE SZNK68E
-112 49.35 38 39.32					
U.S.,UT,PARK CTY(M-C)MAXFIELD	GN MTH-N	19.379	15.817	39.352	ORE SZNK68E
-111 40.00 40 38.00					
U.S.,UT,GOLD HIL(M-C)US MINE	GN 3FI-R	19.388	15.810	39.738	ORE
-113 49.80 40 09.50					
U.S.,UT,TINTIC (M-C)O. SCOTIA	GN MTH-R	19.421	15.734	39.619	ORE SZNK68E
-112 22.00 39 50.00					
U.S.,UT,GOLD HIL(M-C)SE. GLOR	PJ 3FI-N	19.435	15.804	39.860	ORE
-113 48.60 40 09.90					
U.S.,UT,GOLD HIL(M-C)CYCLONE1	GN 3FI-N	19.510	15.812	39.892	ORE
-113 48.40 40 04.40					
U.S.,UT,PARK CTY(M-C)MAXFIELD	GN MTH-N	19.527	15.827	39.289	ORE SZNK68E
-111 40.00 40 38.00					
U.S.,UT,GOLD HIL(M-C)SENATOR	GN 3FI-R	19.632	15.826	40.034	ORE
-113 49.00 40 07.00					
U.S.,UT,GOLD HIL(M-C)CLIMAX	GN 3FI-R	19.634	15.826	40.075	ORE
-113 47.40 40 08.20					
U.S.,UT,MILFORD (M-C)O. MOSCOW	GN MTH-N	19.677	15.725	39.305	ORE SZNK68E
-113 08.00 38 20.00					
U.S.,UT,GOLD HIL(M-C)SEMINOLE	GN 3FI-N	19.724	15.827	40.216	ORE
-113 49.00 40 07.20					
U.S.,UT,LA PLATA(M-C)LA PLATA	GN 3FI-N	19.956	15.966	40.397	ORE ZART74E
U.S.,UT,MILFORD (M-C)MINERAL	GN MTH-N	20.011	15.769	39.464	ORE SZNK68E
-112 50.00 38 35.00					
U.S.,UT,MILFORD (M-C)MINERAL	GN MTH-N	20.073	15.776	39.484	ORE SZNK68E
-112 50.00 38 35.00					
U.S.,UT, (M-C)BEAVER V	CE 3FI-R	20.375	15.776	39.510	ORE
U.S.,UT,PARK VAL(M-C)CABIN CL	GN 3FI-N	20.974	16.288	40.212	ORE ZART74E
U.S.,UT,TINTIC (M-C)N. BULLIO	GN MTH-N	21.019	15.944	40.279	ORE SZNK68E
-112 11.00 40 02.00					
U.S.,UT,OQUIRR (M-C)MT. NEBO	GN MTH-N	23.835	16.229	42.007	ORE SZNK68E
-111 48.20 39.49.67					
-112 11.00 40 02.00					

U.S. UT, OQUIRR (M-C) MT. NEBO GN MTH-N 23.835 16.229 42.007 ORE SZNK68E
 -111 48.20 39 49.67
 -111 48.20 39 49.67

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LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

VIRGINIA
 PHANEROZOIC

MASSIVE SULFIDE

U.S. VA, MINERAL (PAL) 76BD2 GN 3FI-N 18.205 15.643 38.121 ORE
 U.S. VA, MINERAL (PAL) COFER GN 3FI-N 18.226 15.653 38.181 ORE

WASHINGTON

MESOZOIC-CENOZOIC

U.S. WA, PEND ORE (M-C) 21 GN PUB 18.40 15.30 37.79 ORE CPAB63GB
 U.S. WA, HALFMOON (M-C) GN 3FI-N 18.60 15.63 38.51 ORE SMAL73CJ
 U.S. WA, SKIPPY (M-C) GN 3FI-N 18.62 15.65 38.59 ORE SMAL73CJ
 U.S. WA, AICHEN B (M-C) GN 3FI-N 18.83 15.66 38.53 ORE SMAL73CJ
 U.S. WA, JOHNNY B (M-C) GN 3FI-N 19.05 15.63 38.79 ORE SMAL73CJ
 U.S. WA, PEACOCK (M-C) 1 GN 3FI-N 19.05 15.64 38.82 ORE SMAL73CJ
 U.S. WA, LAST CHA (M-C) 1 GN 3FI-N 19.06 15.64 38.83 ORE SMAL73CJ
 U.S. WA, PEACOCK (M-C) 2 GN 3FI-N 19.09 15.66 38.90 ORE SMAL73CJ
 U.S. WA, PEACOCK (M-C) 3 GN 3FI-N 19.08 15.66 38.89 ORE SMAL73CJ
 U.S. WA, WHEELER (M-C) GN 3FI-N 19.12 15.65 38.93 ORE SMAL73CJ
 U.S. WA, LAST CHA (M-C) 2 GN 3FI-N 19.13 15.66 38.92 ORE SMAL73CJ
 U.S. WA, MEADOW C (M-C) GN 3FI-N 19.13 15.66 38.91 ORE SMAL73CJ
 U.S. WA, CONS. CAL (M-C) 2 GN 3FI-N 19.13 15.64 38.94 ORE SMAL73CJ
 U.S. WA, MINERAL (M-C) GN 3FI-N 19.13 15.67 38.94 ORE SMAL73CJ
 U.S. WA, CONS. CAL (M-C) 3 GN 3FI-N 19.15 15.65 38.95 ORE SMAL73CJ
 U.S. WA, CONS. CAL (M-C) 4 GN 3FI-N 19.15 15.65 38.95 ORE SMAL73CJ
 U.S. WA, CONS. CAL (M-C) 1 GN 3FI-N 19.16 15.65 38.97 ORE SMAL73CJ
 U.S. WA, TOGO (M-C) GN 3FI-N 19.16 15.66 38.98 ORE SMAL73CJ
 U.S. WA, KABBA TE (M-C) GN 3FI-N 19.17 15.67 39.00 ORE SMAL73CJ
 U.S. WA, CHEWELAN (M-C) GN 3FI-N 19.26 15.67 39.55 ORE SMAL73CJ
 U.S. WA, JAY GOUL (M-C) GN 3FI-N 19.28 15.71 39.64 ORE SMAL73CJ
 U.S. WA, QUEEN SE (M-C) GN 3FI-N 19.31 15.69 39.28 ORE SMAL73CJ
 U.S. WA, AG KING (M-C) GN 3FI-N 19.34 15.71 39.50 ORE SMAL73CJ
 U.S. WA, SHAMROCK (M-C) GN 3FI-N 19.41 15.75 39.27 ORE SMAL73CJ
 U.S. WA, CLEVELAN (M-C) 1 GN 3FI-N 19.46 15.72 39.52 ORE SMAL73CJ
 U.S. WA, PEND ORE (M-C) EAST SI 2 GN PUB 19.46 15.84 39.98 ORE CPAB62GM
 U.S. WA, CLEVELAN (M-C) 2 GN 3FI-N 19.48 15.73 39.46 ORE SMAL73CJ
 U.S. WA, PEND ORE (M-C) GRANDV. 2 GN PUB 19.58 15.89 40.22 ORE CPAB62GM
 U.S. WA, DEER TRA (M-C) 1 GN 3FI-N 19.71 15.71 39.64 ORE SMAL73CJ
 U.S. WA, DEER TRA (M-C) 2 GN 3FI-N 19.73 15.73 39.70 ORE SMAL73CJ
 U.S. WA, MULLEN (M-C) GN 3FI-N 19.73 15.73 40.20 ORE SMAL73CJ
 U.S. WA, JAY-DEE (M-C) 1 GN 3FI-N 20.64 15.81 40.30 ORE SMAL73CJ

U.S. WA JAY-DEE (M-C) 2 GN 3FI-N 20.62 15.79 40.25 ORE SMAL73CJ

WASHINGTON
PRECAMBRIAN

U.S. WA KEY FRAC(X) 1 GN 3FI-N 16.35 15.40 36.04 ORE SMAL73CJ
U.S. WA KEY FRAC(X) 2 GN 3FI-N 16.36 15.41 36.06 ORE SMAL73CJ
U.S. WA KOOTENAI(M-C) CONQUEST GN 3FI-N 16.39 15.41 36.12 ORE SMAL73CJ

ORES

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LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

WISCONSIN

UPPER MISSISSIPPI VALLEY ZINC-LEAD DISTRICT
PHANEROZOIC

U.S. WI ROCKVIL. (PHA) 6-LEAD M GN PBI-N 21.90 16.01 41.43 ORE HDZB66E
U.S. WI TENNYSON (PHA) 7-PIQUET GN PBI-N 22.05 16.01 41.62 ORE HDZB66E
U.S. WI LESLIE (PHA) 9-NIG. JI GN PBI-N 22.07 15.97 41.77 ORE HDZB66E
U.S. WI NEW DIG. (PHA) 10-HOSKI GN PBI-N 22.16 15.98 42.07 ORE HDZB66E
U.S. WI (PHA) D-11 GN P3S-R 22.22 16.34 42.89 ORE
U.S. WI (PHA) D-12 GN P3S-R 22.51 16.32 43.07 ORE
U.S. WI SHULLSB. (PHA) 11 CALUME GN PBI-N 22.79 16.14 42.55 ORE HDZB66E
U.S. WI SHULLSB. (PHA) 12 CALUME GN PBI-N 22.61 16.04 42.41 ORE HDZB66E
U.S. WI HIGHLAND (PHA) 13 OHERK. GN PBI-N 23.16 16.09 42.37 ORE HDZB66E
U.S. WI MIFFLIN (PHA) 14 OLD SL GN PBI-N 23.46 16.14 42.91 ORE HDZB66E
U.S. WI MINERAL (PHA) 15 IVEY M GN PBI-N 23.75 16.17 43.24 ORE HDZB66E
U.S. WI YELLOWS. (PHA) 16 N. YELL GN PBI-N 23.60 16.16 43.40 ORE HDZB66E
U.S. WI DODGEVIL (PHA) 17 DEMBY- GN PBI-N 24.27 16.22 43.63 ORE HDZB66E

U.S. WI AVON (PHA) 68-20 GN 3FI-N 21.699 15.969 41.778 ORE
U.S. WI ORION (PHA) 68-1 GN 3FI-N 22.770 16.064 42.237 ORE
U.S. WI SPEED (PHA) 67-1 GN 3FI-N 23.111 16.095 43.038 ORE
U.S. WI ERIG (PHA) 63-1 GN 3FI-N 23.164 16.121 43.154 ORE
U.S. WI EXETER (PHA) 68-13 GN 3FI-N 23.319 16.160 43.687 ORE
U.S. WI RUDD (PHA) 69-3 GN 3FI-N 24.462 16.244 43.246 ORE

PRECAMBRIAN

MASSIVE SULFIDE DEPOSITS

U.S. WI LADY SMI(X?) FLAMBEAU GN 3FI-N 15.323 15.167 35.016 ORE
U.S. WI RHINELAN(X?) PELICAN GN 3FI-N 15.668 15.559 35.202 ORE

WYOMING

PHANEROZOIC

U.S. WY CU MOUNT (PHA) WU#2883 GN 3FI-N 23.580 16.546 46.625 ORE

1400 M.Y.

U.S. WY	META MIN (Y)	SC027-00	GN	3FI-N	16.022	15.436	35.214	ORE
U.S. WY	3 FORKS (Y)		GN	3FI-N	16.297	15.396	35.520	ORE ADD 72E
U.S. WY	3 FORKS (Y)	DS255	GN	PBI-N	16.25	15.33	35.40	ORE DPA 66UP
U.S. WY	3 FORKS (Y)	DS256	GV	PBI-N	16.26	15.34	35.39	ORE DPA 66UP
U.S. WY	MEDICINE (Y)	KEYSTONE	GN	3FI-N	16.509	15.400	35.610	ORE

1700 M.Y.

U.S. WY	BROADWAY (X)	KJD5-9-2	GN	3FI-N	15.809	15.286	35.251	GAL
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2700 M.Y.

ATLANTIC CITY AREA (ZENITH AND MARY ELLEN, AVG. 3, MINES)

U.S. WY	ATL. CTY. (W)	MARY ELL	GN	PBI-N	13.90	14.88	33.80	ORE ANT 64X
U.S. WY	ATL. CTY. (W)	582-ZENT	GN	MTH-N	14.018	14.956	33.839	ORE SMAL68TH

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 SSS             SSS      EEE             DDD             DDD      CCC             CCC
 SSS             SSS      EEE             DDD             DDD      CCC             CCC
 SSS             EEE             DDD             DDD      CCC
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 SSS             SSS      EEE             DDD             DDD      CCC             CCC
 SSS             SSS      EEE             DDD             DDD      CCC             CCC
      SSSSSSSSSS      EEEEEEEEEEEEEEEt  DDDDDDDDDDDDD  CCCCCCCCCC
      SSSSSSSSSS      EEEEEEEEEEEEEEEt  DDDDDDDDDDDDD  CCCCCCCCCC
      SSSSSSSSSS      EEEEEEEEEEEEEEEt  DDDDDDDDDDDDD  CCCCCCCCCC

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SEDIMENTS, MESOZOIC-CENOZOIC, CONTINENTAL (SEDC.GRA)

(25 JUNE 1976)

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LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

UNITED STATES

CALIFORNIA

U.S.	CA	SALTON	S(CEN)W747A	WR	PBS-N	18.93	15.58	38.52	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)W755B	WL	PBS-N	19.11	15.61	38.94	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)W755B	RW	PBS-N	19.35	15.61	39.71	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP26	WL	PBS-N	19.35	15.70	39.13	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP26	RW	PBS-N	18.51	15.59	38.35	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP20	WL	PBS-N	19.35	15.70	39.16	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP20	RW	PBS-N	19.24	15.64	38.97	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP50	WL	PBS-N	19.30	15.70	39.15	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP50	RW	PBS-N	19.36	15.70	39.24	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP30A	WL	PBS-N	19.13	15.62	38.89	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP30A	RW	PBS-N	19.25	15.63	38.99	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP31B	WL	PBS-N	19.08	15.62	38.84	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP31B	RW	PBS-N	18.94	15.63	39.06	SED	DHW	66E
U.S.	CA	SALTON	S(CEN)64CMP30B	WL	PBS-N	19.08	15.63	38.90	SED		
U.S.	CA	SALTON	S(CEN)64CMP30B	RW	PBS-N	17.86	15.50	37.51	SED	M-D	68SP
U.S.	CA	SALTON	S(CEN)64CMP31C	WL	PBS-N	19.02	15.61	38.97	SED		
U.S.	CA	SALTON	S(CEN)64CMP31C	RW	PBS-N	17.91	15.52	37.56	SED	M-D	68SP
U.S.	CA	SALTON	S(CEN)W817	WL	PBS-N	19.19	15.65	39.00	SED		
U.S.	CA	SALTON	S(CEN)W817	RW	PBS-N	19.18	15.62	38.96	SED	M-D	68SP
*			DRILL CORE, DEPTH 447 FT								
U.S.	CA	SALTON	S(CEN)W803	WL	PBS-N	19.15	15.62	38.90	SED		
U.S.	CA	SALTON	S(CEN)W803	RW	PBS-N	19.14	15.64	38.73	SED	M-D	68SP
*											
U.S.	CA	SALTON	S(CEN)W81	WR	PBS-N	19.26	15.67	39.04	SED		
*											
U.S.	CA	SALTON	S(CEN)W817G	WR	PBS-N	19.12	15.60	39.34	ORE		
*											
U.S.	CA	SALTON	S(CEN)W803-1	WR	PBS-N	19.05	15.71	38.96	SED		

OREGON

U.S.	OR	TYEE FM.	(CEN)D1000	WR	GEL-N	19.08	15.64	38.95	WAC	CHUR76L	
U.S.	OR	TYEE FM.	(CEN)D1001	WR	PBS-N	19.09	15.60	39.10	WAC	T-S	69J
U.S.	OR	TYEE FM.	(CEN)D1014	WR	CEL-N	19.10	15.63	39.08	WAC	CHUR76L	
U.S.	OR	TYEE FM.	(CEN)D1004	WR	GEL-N	19.10	15.65	39.11	WAC	CHUR76L	
U.S.	OR	TYEE FM.	(CEN)D1008	WR	GEL-N	19.12	15.65	39.09	SH	CHUR76L	
U.S.	OR	YAQUINA	(CEN)D1012	WR	PBS-N	19.02	15.59	38.72	SS	T-S	69J
U.S.	OR	SILETZ	R(CEN)D1016	WR	PBS-N	19.67	15.60	39.21	BSS	T-S	69J

WYOMING

HOT SPRING DEPOSITS

U.S. WY, YELLOWS. (QUA) W705E2	WR GEL-N	18.02	15.60	38.38	SIN
U.S. WY, YELLOWS. (QUA) Y10-6.7	WR GEL-N	18.32	15.63	38.09	TRV
U.S. WY, YELLOWS. (QUA) YM294	WL P3S-N	17.70	15.59	38.33	TRV
U.S. WY, YELLOWS. (QUA) UM294	WL P3S-N	17.70	15.59	38.31	TRV
U.S. WY, YELLOWS. (QUA) W705C2	WL P3S-N	17.73	15.67	38.55	TRV
U.S. WY, YELLOWS. (QUA) W705C2	WR P3S-N	17.76	15.71	38.65	TRV

SEDIMENTS

U.S. WY, GALLATIN (CEN) 7YR249	WL P3S-N	19.31	15.67	38.82	SED
U.S. WY, GALLATIN (MES) 7YR249	RW P3S-N	18.99	15.74	39.38	SED

OTHER AREAS

BALTIC SEA

EUR. BS, BALTIC S (QUA)	WR PUB	20.57	16.00	39.70	SED CHOW65RO
EUR. BS, BALTIC S (QUA)	WR PUB	20.72	15.98	40.40	SED CHOW65RO

BLACK SEA

W. AS, BK, BLACK S. (CEN) 1431TOP	WR DSP	18.73	15.66	38.82	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1439TOP	WR DSP	18.57	15.63	38.64	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1444TOP	WR DSP	18.64	15.65	38.73	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1452TOP	WR DSP	18.31	15.66	38.79	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1470TOP	WR DSP	18.67	15.65	38.79	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1474TOP	WR DSP	18.76	15.67	38.84	SED CDR 74PG
W. AS, BK, BLACK S. (CEN) 1474(145	WR DSP	18.77	15.66	38.88	SED CDK 74PG
W. AS, BK, BLACK S. (CEN) 1474(600	WR DSP	18.81	15.66	38.90	SED CDR 74PG
W. AS, BK, BLACK S. (CEN) 1484TOP	WR DSP	18.54	15.64	38.59	SED CDR 74PG

HUDSON BAY

CAN. HB, HUDSON B (QUA)	WR PUB	21.63	16.00	43.37	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	22.07	16.12	42.71	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	23.36	16.17	44.66	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	23.42	16.23	45.04	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	23.49	16.35	45.01	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	24.15	16.28	45.90	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	24.39	16.34	46.54	SED CHOW65RO
CAN. HB, HUDSON B (QUA)	WR PUB	25.00	16.41	46.83	SED CHOW65RO

LAKE SUPERIOR

U.S. GL, L. SUPER. (QUA)	WR PUB	20.53	15.87	40.34	SED H-T 66JM
U.S. GL, L. SUPER. (QUA)	WR PUB	22.84	16.34	42.86	SED CHOW65RO

GREAT SLAVE LAKE

CAN. NT, G. SLAVE (QUA)	WR PUB	20.09	15.97	40.69	SED CHOW65RO
CAN. NT, G. SLAVE (QUA)	WR PUB	21.46	16.15	41.37	SED CHOW65RO
CAN. NT, G. SLAVE (QUA)	WR PUB	21.56	16.13	41.77	SED CHOW65RO
CAN. NT, G. SLAVE (QUA)	WR PUB	22.08	16.18	42.13	SED CHOW65RO
CAN. NT, G. SLAVE (QUA)	WR PUB	23.41	16.38	49.33	SED CHOW65RO
CAN. NT, G. SLAVE (QUA)	WR PUB	24.15	16.59	44.10	SED CHOW65RO

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IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION	(AGE)	SAMPLE NO.	METHOD	206/207	207/204	208/204	TYPE	REFER.
ATLANTIC								
AOB /S./	(CEN)	E28-5	WR PUB	18.784	15.615	38.746	MN R-D	71J
CARRIBBEAN								
AOB /CB/W.INDIES	(CEN)	S-M	WR PUB	18.982	15.643	38.994	MN R-D	71J
AOB /CB/W.INDIES	(CEN)	C-58	WR PUB	19.089	15.637	39.127	MN R-D	71J
GULF OF CALIFORNIA								
POB /GC/GULF CAL	(CEN)	MN-NOD.	WR P3S-N	19.15	15.68	38.81	MN C-P	62A
INDIAN								
IOB / /	(CEN)	o269-10	WR PUB	18.743	15.640	38.941	MN R-D	71J
PACIFIC								
POB /S./	(CEN)	A54-14	WR GEL-N	18.31	15.52	38.02	SED DDH	71L
POB /S./	(CEN)	DSDP-GC	WR GEL-N	18.395	15.561	38.015	SED	
POB /S./	(CEN)	17813	WR PUB	18.676	15.615	38.576	MN R-D	71J
POB /N./	(CEN)	DWHD-47	WR PUB	18.713	15.633	38.737	MN R-D	71J
POB /S./	(CEN)	BT14-3	WR PUB	18.727	15.607	38.668	MN R-D	71J
POB /S./	(CEN)	RS24-15	WR PUB	18.743	15.613	38.650	MN R-D	71J
POB /N./	(CEN)	DH-2	WR PUB	18.789	15.648	38.725	MN R-D	71J
POB /N./	(CEN)	V20-D4	WR PUB	18.878	15.650	38.836	MN R-D	71J
LEG 18 DSDP								
POB /NE/OPEN OCE	(CEN)	172-1-1	WR GEL-N	18.75	15.62	38.75	MN CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-1-4	WR GEL-N	18.75	15.64	38.79	MN CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-2-1	WR GEL-N	18.81	15.64	38.78	MN CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-1-1	WR GEL-N	18.85	15.65	38.92	SED CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-2-1	WR GEL-N	18.70	15.62	38.84	SED CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-3-1	WR GEL-N	18.83	15.64	38.92	SED CHUR	76L
POB /NE/OPEN OCE	(CEN)	172-3-6	WR GEL-N	18.60	15.61	38.50	SED CHUR	76L
POB /NE/MFZ-CONT	(CEN)	173-1-1	WR GEL-N	19.10	15.66	38.99	SED CHUR	76L
POB /NE/MFZ-CONT	(CEN)	173-4-1	WR GEL-N	19.07	15.63	38.88	SED CHUR	76L
POB /NE/MFZ-CONT	(CEN)	173-14-1	WR GEL-N	18.90	15.63	38.74	SED CHUR	76L
POB /NE/MFZ-CONT	(CEN)	173-35-3	WR GEL-N	19.07	15.65	38.92	SED CHUR	76L
POB /NE/CB-CONT.	(CEN)	174-1-1	WR GEL-N	18.95	15.63	38.90	SED CHUR	76L
POB /NE/CH-CONT.	(CEN)	174A32-2	WR GEL-N	19.14	15.64	39.10	SED CHUR	76L
POB /NE/CH-CONT.	(CEN)	174A36-1	WR GEL-N	19.02	15.63	39.02	SED CHUR	76L

PCB	NE	CB-CONT.	(CEN)174A40-5	WR	GEL-N	19.20	15.66	39.11	SED	CHUR76L
POB	NE	VI-CONT.	(CEN)177-1-1	WR	GEL-N	19.06	15.65	38.90	SED	CHUR76L
POB	NE	VI-CONT.	(CEN)177A5-1	WR	GEL-N	19.00	15.64	38.78	SED	CHUR76L
POE	NE	VI-CONT.	(CEN)177A23-5	WR	GEL-N	19.07	15.63	38.64	SED	CHUR76L
POB	NE	VI-CONT.	(CEN)177A25-2	WR	GEL-N	18.94	15.62	38.76	SED	CHUR76L
POB	NE	VI-CONT.	(CEN)177A26-1	WR	GEL-N	19.09	15.62	38.61	SED	CHUR76L
POB	NE	VI-CONT.	(CEN)177A26-1	WR	GEL-N	19.13	15.60	38.62	SED	CHUR76L

POB	NE	00	(CEN)MUK-B4	WR	GEL-N	18.74	15.62	38.88	SED	CHUR73CO
POB	NE	00	(CEN)CUSP17	WR	GEL-N	18.77	15.64	38.93	SED	CHUR73CO
PCB	NE	MR	(CEN)227/5L	WL	GEL-N	18.82	15.63	38.80	MN	CHUR73CO
POB	NE	GB-CONT.	(CEN)235/102	WR	GEL-N	18.83	15.59	38.56	SED	CHUR73CO
POB	NE	00	(CEN)MUK-B4	WR	GEL-N	18.87	15.65	38.93	SED	CHUR73CO
POB	NE		(CEN)247/L	WL	GEL-N	18.88	15.64	38.86	MN	CHUR73CO
POB	NE		(CEN)247/R	WL	GEL-N	18.89	15.62	38.78	MN	CHUR73CO
POB	NE	MR	(CEN)245/95	WL	GEL-N	18.90	15.62	38.98	MN	CHUR73CO
POB	NE	GB-CONT.	(CEN)MUK-B31	WR	GEL-N	19.03	15.64	38.86	SED	CHUR73CO
POB	NE	00	(CEN)LFGS43	WR	GEL-N	18.91	15.63	38.73	SED	CHUR73CO
POB	NE	00	(CEN)LFGS42	WR	GEL-N	19.09	15.66	39.06	SED	CHUR73CO

NAZCA PLATE

LEG 34 DSDP

METALLIFEROUS SEDIMENT

POB	NZ	NAZCA PL	(CEN)S319C1S6	WR	GEL-N	18.481	15.533	38.185	SED	U-T 75D
POB	NZ	NAZCA PL	(CEN)S319C7S1	WR	GEL-N	18.388	15.501	38.407	SED	U-T 75D
POB	NZ	NAZCA PL	(CEN)S319C12S	WR	GEL-N	18.544	15.519	38.099	SED	U-T 75D

RED SEA

N.A.F.	RS	S.ATL.2	(CEN)384-1	WR	DSP-N	18.62	15.55	38.36	SED	C-R 69R
N.A.F.	RS	DISCOVER	(CEN)119K-20	WR	DSP-N	18.75	15.53	38.38	SED	C-R 69R
N.A.F.	RS	S.ATL.2	(CEN)84K-2	WR	DSP-N	18.76	15.60	38.56	SED	C-R 69R
N.A.F.	RS	S.ATL.2	(CEN)84K-4	WR	DSP-N	18.78	15.62	38.61	SED	C-R 69R
N.A.F.	RS	S.ATL.2	(CEN)84K-3	WR	DSP-N	18.79	15.64	38.71	SED	C-R 69R
N.A.F.	RS	S.ATL.2	(CEN)84K-6	WR	DSP-N	18.79	15.62	38.62	SED	C-R 69R
N.A.F.	RS	E.ATL.2	(CEN)120K-15	WR	DSP-N	18.79	15.63	38.68	SED	C-R 69R
N.A.F.	RS	E.ATL.2	(CEN)120K-17	WR	DSP-N	18.80	15.64	38.69	SED	C-R 69R
N.A.F.	RS	S.ATL.2	(CEN)84K-5	WR	DSP-N	18.80	15.65	38.69	SED	C-R 69R
N.A.F.	RS	ATLANT.2	(CEN)95K-H-1J	WR	DSP-N	18.85	15.64	38.64	SED	C-R 69R
N.A.F.	RS	DISCOVER	(CEN)119K-21	WR	DSP-N	18.95	15.68	38.92	SED	C-R 69R
N.A.F.	RS	DSDP-23B	(CEN)PORE W22	WR	GEL-N	18.617	15.561	38.291	H2O	D-D 74D
N.A.F.	RS	DSDP-23B	(CEN)226	WL	GEL-N	18.742	15.562	38.400	SED	D-D 74D
N.A.F.	RS	DSDP-23B	(CEN)228	WL	GEL-N	18.690	15.568	38.212	SED	D-D 74D
N.A.F.	RS	DSDP-23B	(CEN)227	WL	GEL-N	19.095	15.615	38.583	SED	D-D 74D

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(SEDP.GRA)

(3 JUNE 1976)

SEDIMENTS, PRECAMBRIAN-PALEOZOIC, CLASTICS AND CARBONATES (INCLUDES MARBLES)

IF NO REFERENCE IS LISTED, PERMISSION TO CITE MUST BE OBTAINED FROM
LEAD ISOTOPES AND ORE DEPOSITS PROJECT

LOCATION (AGE) SAMPLE NO. METHOD 206/204 207/204 208/204 TYPE REFER.

UNITED STATES

COLORADO

U.S. CO	LEADVILL (MIS)	LIM/DOL	WR PUB	22.68	15.94	39.73	DOL E-P	57GB
U.S. CO	LEADVILL (MIS)	LIMESTON	WR PUB	21.26	15.85	39.39	LIM E-P	57GB
U.S. CO	LEADVILL (M-C)	CONTAM.C	WR PUB	17.96	15.44	38.04	DOL E-P	57GB

IDAHO

MILLIGAN FORMATION

U.S. ID	WOOD RIV (DEV)	WH2112W	WR GEL-N	19.308	15.675	39.525	SH	
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MISSOURI

U.S. MO	S.E. MO	(CAM) 63W121	WR PBS-N	16.78	15.19	37.81	SH D-D	72E
U.S. MO	S.E. MO	(CAM) 63W121	WR PBS-N	18.53	15.54	37.78	LIM D-D	72E
U.S. MO	S.E. MO	(CAM) 63W121	RW PBS-N	20.83	15.82	39.45	SS D-D	72E
U.S. MO	S.E. MO	(CAM) 63W89	WR PBS-N	18.67	15.46	38.57	SH D-D	72E
U.S. MO	S.E. MO	(CAM) 63W89	WR GEL-N	19.84	15.68	38.86	LIM D-D	72E
U.S. MO	S.E. MO	(CAM) 63W89	WR PBS-N	19.85	15.70	38.87	LIM D-D	72E
U.S. MO	S.E. MO	(CAM) 63W89	WL PBS-N	26.12	16.22	43.68	SS D-D	72E
U.S. MO	S.E. MO	(CAM) 63W89	RW PBS-N	19.53	15.65	38.16	SS D-D	72E
U.S. MO	S.E. MO	(CAM) 57W21	WR PBS-N	19.86	15.69	39.18	SH D-D	72E
U.S. MO	S.E. MO	(CAM) 57W21	WR PBS-N	21.37	15.87	40.06	LIM D-D	72E
U.S. MO	S.E. MO	(CAM) 57W21	WR GEL-N	21.40	15.88	40.09	LIM D-D	72E
U.S. MO	S.E. MO	(CAM) 57W21	WL PBS-N	22.76	15.98	41.91	SS D-D	72E
U.S. MO	S.E. MO	(CAM) 57W21	RW PBS-N	20.79	15.84	40.03	SS D-D	72E

NEVADA

U.S. NV	CORTEZ	(PAL) W233	RW PBS-N	19.63	15.58	38.78	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) W266	WL PBS-N	21.36	15.77	39.04	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) W233	PY PBS-N	20.12	15.69	38.63	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) 722DC	PY PBS-N	19.61	15.72	38.72	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) JE10RE	WR PBS-N	20.30	15.67	39.13	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) JE10RE	WL PBS-N	20.25	15.72	39.38	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) AT112ORE	RW PBS-N	19.64	15.67	38.84	LIM RDW	74UP
U.S. NV	CORTEZ	(PAL) AT112ORE	WL PBS-N	20.31	15.73	39.22	LIM RDW	74UP
U.S. NV	GOODWIN	(ORD) D1595-CU	WR PBS-N	24.47	16.11	39.34	LIM DCE	70H
U.S. NV	GOODWIN	(ORD) D289-CO	WR PBS-N	25.55	16.16	40.00	LIM DCE	70H

NEW YORK

U.S. NY	BALMAT	(Y) FD7-2	WR PUB	17.98	15.46	36.32	MAR DCE	62GB
U.S. NY	BALMAT	(Y) FD7-3	WR PUB	19.22	15.60	36.64	MAR DCE	62GB

WYOMING

PHANEROZOIC

U.S. WY GALLATIN(MIS) 6YR158 WR GEL-N 20.173 15.923 39.561 LIM

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ISOTOPE RATIOS

REFERENCE SAMPLE	SAMPLE NO.	METHOD	206/204	207/204	206/204	TYPE	REFER.
BCR-1	BCR-1	BCR-1	BCR-1	BCR-1	BCR-1	BCR-1	
SPLIT 2/POSITION 26							
REF.SAMPLE	5-72	BCR-1	GEL-N	18.78	15.62	38.68	BAS GALE 72X
SPLIT 3/POSITION 18							
REF.SAMPLE	8-71	BCR-1	DBL.SP.	18.77	15.63	38.65	BAS OVER 71L
REF.SAMPLE	-72	BCR-1		18.79	15.63	38.68	BAS OVER 72C
SPLIT 3/POSITION 25							
REF.SAMPLE	12-72	BCR-1(A)		18.83	15.64	38.77	BAS SHIE 72X
REF.SAMPLE	12-72	BCR-1(A)		18.82	15.63	38.75	BAS SHIE 72X
REF.SAMPLE	12-72	BCR-1(B)		18.80	15.60	38.65	BAS SHIE 72X
REF.SAMPLE	12-72	BCR-1(C)		18.79	15.60	38.60	BAS SHIE 72X
SPLIT 12/POSITION 6							
REF.SAMPLE	12-72	BCR-1		18.67	15.60	38.58	BAS SHIE 72X
SPLIT 12, POSITION 13							
REF.SAMPLE	7-76	BCR-1	GEL-N	18.817	15.630	38.721	BAS DELE 76X
REF.SAMPLE	11-75	BCR-1	GEL-N	18.806	15.614	38.689	BAS LEEM 75X
REF.SAMPLE	11-75	BCR-1	GEL-N	18.815	15.622	38.725	BAS LEEM 75X
REF.SAMPLE	4-74	BCR-1	GEL-N	18.819	15.623	38.688	BAS DELE 74X
REF.SAMPLE	9-74	BCR-1	GEL-N	18.815	15.629	38.767	BAS DELE 74X
SPLIT 23, POSITION 4							
REF.SAMPLE	-72	BCR-1(1)		18.78	15.63	38.65	BAS TATS 72U
REF.SAMPLE	-72	BCR-1(2)		18.80	15.62	38.69	BAS TATS 72U
REF.SAMPLE	-72	BCR-1(3)		18.79	15.61	38.66	BAS TATS 72U
REF.SAMPLE	2-72	BCR-1(2)	GEL-N	18.802	15.622	38.696	BAS DELE 72X
SPLIT 31/POSITION 31							
REF.SAMPLE	-72	BCR-1(A)		18.80	15.61	38.63	BAS NK 72U
REF.SAMPLE	-72	BCR-1(B)		18.78	15.65	38.71	BAS NK 72U
SPLIT 44/POSITION 17							
REF.SAMPLE	8-75	BCR-1	?	18.796	15.638	38.703	BAS CUMM 75X
REF.SAMPLE	8-75	BCR-1	?	18.977	15.621	38.646	BAS CUMM 75X
SPLIT 56/POSITION 16							
REF.SAMPLE	11-76	BCR-1	GEL-R	18.798	15.591	38.575	BAS SINH 76X
REF.SAMPLE	11-76	BCR-1	GEL-R	18.788	15.579	38.528	BAS SINH 76X
REF.SAMPLE	11-76	BCR-1	GEL-R	18.769	15.571	38.518	BAS SINH 76X
SPLIT 68/POSITION 22							
REF.SAMPLE	8-72	BCR-1	GEL-N	18.82	15.63	38.71	BAS SUN 72X
REF.SAMPLE	8-72	BCR-1	GEL-N	18.81	15.63	38.70	BAS SUN 72X
REF.SAMPLE	8-72	BCR-1	GEL-N	18.81	15.63	38.68	BAS SUN 72X

REF.SAMPLE	8-72	BCR-1	GEL-N	18.82	15.63	38.72	BAS SUN	72X
REF.SAMPLE	12-75	BCR-1	GEL-N	18.80	15.62	38.70	BAS CHUR	76L
REF.SAMPLE	8-72	BCR-1	GEL-N	18.80	15.62	38.68	BAS CHUR	76L

SPLIT 76/POSITION 21

REF.SAMPLE	9-75	BCR-1	?	13.82	15.61	38.63	BAS WELK	75X
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AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	
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S18/P13

REF.SAMPLE	1972	AGV-1	PBS-N.	18.89	15.60	38.39	AND TKD	72U
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S47/P14

REF.SAMPLE	8-72	AGV-1	GEL-N	18.91	15.59	38.46	AND CHUR	76L
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S96/P10

REF.SAMPLE	12-72	AGV-1	GEL-N	18.97	15.68	38.66	AND SHIE	72X
REF.SAMPLE	12-72	AGV-1	GEL-N	18.96	15.67	38.58	AND SHIE	72X
REF.SAMPLE	12-72	AGV-1	GEL-N	18.94	15.65	38.57	AND SHIE	72X

GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	
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S80/P32

REF.SAMPLE	4-74	GSP-1	GEL-N	17.80	15.55	47.05	GRA DELE	74X
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S1/P20

REF.SAMPLE	1967	GSP-1	PBS-N.	18.04	15.62	47.13	GRA PDB	67U
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G-2	G-2	G-2	G-2	G-2	G-2	G-2	G-2	
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S66/P20

REF.SAMPLE	1967	G-2		18.38	15.58	38.91	GRA DTOP	67U
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CONCENTRATIONS

REFERENCE SAMPLE	SAMPLE NO.	208/204	URANIUM	THORIUM	LEAD	ROCK REFER.
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BCR-1	BCR-1	BCR-1	BCR-1	BCR-1	BCR-1	BCR-1
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SPLIT 2/POSITION 26

REF.SAMPLE	5-72	BCR-1		1.64		13.57	BAS GALE	72X
REF.SAMPLE	5-72	BCR-1		1.67		13.45	BAS GALE	72X
REF.SAMPLE	5-72	BCR-1		1.76		13.44	BAS GALE	72X
REF.SAMPLE	5-72	BCR-1				13.68	BAS GALE	72X

SPLIT 3/POSITION 18

REF.SAMPLE	-72	BCR-1		1.73			BAS OVER	72C
REF.SAMPLE	-72	BCR-1		1.72			BAS OVER	72C
REF.SAMPLE	-72	BCR-1		1.73			BAS OVER	72C
REF.SAMPLE	-72	BCR-1		1.73			BAS OVER	72C

REF.SAMPLE	8-71	BCR-1			13.46	BAS OVER	71L	
REF.SAMPLE	8-71	BCR-1			13.17	BAS OVER	71L	
SPLIT 3/POSITION 25								
REF.SAMPLE	12-72	BCR-1	1.71	5.96	13.56	BAS SHIE	72X	
REF.SAMPLE	12-72	BCR-1	1.71	5.91	13.47	BAS SHIE	72X	
REF.SAMPLE	12-72	BCR-1	1.71			BAS SHIE	72X	
SPLIT 12/POSITION 13								
REF.SAMPLE	7-76	BCR-1	38.72	1.73	5.99	13.72	BAS DELE	76X
REF.SAMPLE	11-75	BCR-1		1.67	5.99	13.88	BAS LEEM	75X
REF.SAMPLE	11-75	BCR-1		1.68	5.87	13.59	BAS LEEM	75X
REF.SAMPLE	2-72	BCR-1(1,2)	38.55	1.72	5.93	13.67	BAS DELE	72X
REF.SAMPLE	3-74	BCR-1	38.62	1.72	5.93	13.74	BAS DELE	74X
REF.SAMPLE	9-74	BCR-1	38.65	1.71	5.92	13.50	BAS DELE	74X
SPLIT 23/POSITION 4								
REF.SAMPLE	-72	BCR-1		1.72	6.00	13.55	BAS TATS	72U
REF.SAMPLE	-72	BCR-1		1.73	6.03	13.61	BAS TATS	72U
REF.SAMPLE	-72	BCR-1		1.73	6.01	13.50	BAS TATS	72U
REF.SAMPLE	-72	BCR-1		1.72	5.94	13.57	BAS TATS	72U
REF.SAMPLE	-72	BCR-1		1.71		13.50	BAS DELE	72X
REF.SAMPLE	-72	BCR-1		1.73	5.96	13.48	BAS TATS	72U
SPLIT 31/POSITION 31								
REF.SAMPLE	12-72	BCR-1(2)		1.74	5.97		BAS NK	72U
REF.SAMPLE	-72	BCR-1		1.72	5.93	13.60	BAS DELE	72X
SPLIT 44/POSITION 17								
REF.SAMPLE	8-75	BCR-1			13.42	BAS CUMM	75X	
REF.SAMPLE	8-75	BCR-1			13.65	BAS CUMM	75X	
SPLIT 68/POSITION 22								
REF.SAMPLE	8-72	BCR-1(AVG)		1.70	5.92	13.3	BAS CHUR	72X
SPLIT 76/POSITION 21								
REF.SAMPLE	9-75	BCR-1		1.72		13.72	BAS WELK	75X
REF.SAMPLE	9-75	BCR-1		1.73		13.80	BAS WELK	75X
AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	AGV-1	AGV-1		
S18/F13								
REF.SAMPLE	1972	AGV-1		1.96	6.27	36.53	AND TKD	72U
S47/F14								
REF.SAMPLE	8-72	AGV-1		1.91	6.37	36.2	AND CHUR	72X
S96/P10								
REF.SAMPLE	12-72	AGV-1		1.93	6.31	36.2	AND SHIE	72X
REF.SAMPLE	12-72	AGV-1		1.93	6.31	36.4	AND SHIE	72X
REF.SAMPLE	12-72	AGV-1		1.92	6.27		AND SHIE	72X

GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	GSP-1	GSP-1
S?/P?						
REF.SAMPLE 5-72	GSP-1				55.30	GRA OXAR 70X
REF.SAMPLE 5-72	GSP-1				55.30	GRA OXAR 70X
REF.SAMPLE 5-72	GSP-1				55.20	GRA OZAR 70X
REF.SAMPLE 5-72	GSP-1				55.10	GRA OZAR 70X
S80/P32 ¹						
REF.SAMPLE 4-74	GSP-1	45.83	2.13	105.0	55.0	GRA DELV 74X
S1/P20						
REF.SAMPLE 1967	GSP-1		2.40	106.0	56.65	GRA PDB 67U
S79/P28						
REF.SAMPLE 1967	GSP-1		2.26	103.0		GRA MANT 73L
REF.SAMPLE 1967	GSP-1		2.23	102.0		GRA MANT 73L
G-2	G-2	G-2	G-2	G-2	G-2	G-2
S66/P20						
REF.SAMPLE 1967	G-2		1.94	24.3	30.9	
REF.SAMPLE 1967	G-2				30.8	GRA DTDP 67U
S6/P14						
REF.SAMPLE 7-74	G-2		1.75			OVER 74X
REF.SAMPLE 7-74	G-2		1.76			OVER 74X
REF.SAMPLE 7-74	G-2		1.77			OVER 74X

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