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A TABULATION OF RADIOMETRIC AGE DETERMINATIONS FOR THE KINGDOM OF SAUDI ARABIA

by

M. E. Gettings and D. B. Stoeser

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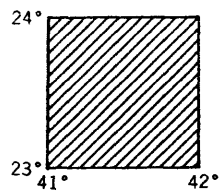
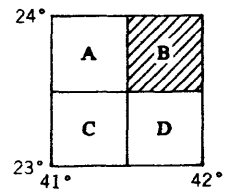
The work on which this report was based was performed in accordance with a cooperative agreement between the U.S. Geological Survey and the Ministry of Petroleum and Mineral Resources.

The quadrangle identification method used in U.S. Geological Survey Saudi Arabian Mission reports is shown below.



23/41

1-degree quadrangle



23/41 B

30-minute quadrangle

CONTENTS

ILLUSTRATION

A TABULATION OF RADIOMETRIC AGE DETERMINATIONS FOR THE KINGDOM OF SAUDI ARABIA

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ABSTRACT

All radiometric age determinations for Saudi Arabia (mainly the western part) that could be found in the literature, as well as some unpublished results, have been tabulated in a standard format in a data set on the DGMR PDP 11/45 computer. The 841 age determinations in the data set have been plotted on a location map (plate 1) at a scale of 1:2,000,000 that shows the tabulation identifying number and the age in millions of years for each determination. The tabulation gives summary information for the age determinations including location, age, analytical uncertainty, method, rock type, material dated, geochronologist or principal author, stratigraphic information, comments, and references to the source literature.

PREFACE TO THE TABULATION

The compilation of this tabulation of radiometric age determinations was undertaken as part of the U.S. Geological Survey (USGS) Saudi Arabian Mission project to prepare a series of index maps and tabulations describing available earth-science data for Saudi Arabia, begun in November 1978. Design of the tabulation was completed in July 1979 by D.B. Stoeser and M.E. Gettings, and compilation and coding of data was begun immediately afterward by R. Samater, who compiled and coded most of the data from the literature.

The purpose of the tabulation is to enable a researcher to locate easily all currently available radiometric age determinations in a given area in a summary format that provides the essential information regarding the age determinations. From this summary it is also possible to find easily and quickly the cited age determination in the source literature for further details. To meet these requirements, the format of a map with an identifying number keyed to the tabulation and the age indicated at each sample locality was adopted. Each entry in the tabulation includes the serial identifying number, the geographic location, the age in

millions of years, the analytical uncertainty in the determination, the method used, the material dated, the rock type, geochronologist or principal author, stratigraphic information, comments, and the references to the source literature. The tabulation was computer generated from a data set maintained on the computer so that it may be updated and reproduced easily.

While every effort has been made to insure that the tabulation is correct, in any numerical data set of this size some errors are inevitable; for this reason the source literature should generally be consulted for the dates in question. The literature search has not been exhaustive and some references may have been overlooked.

Many people assisted with the generation, editing, and checking of the data, for which assistance we are grateful.

Additional compilation, error checking, and editing were performed by J. Stoeser, K. Gledhill, and C. Heslop. Software generation was completed by M.E. Gettings with assistance from G. Selner. M. Thompson punched the data cards, and several USGS geologists, as well as J. Odell, Directorate General of Mineral Resources (DGMR), helped locate errors and suggested improvements. Peter Johnson, Riofinex, provided several references and John Kemp, BRGM*, generously provided a prepublication manuscript with many new dates in the northern shield.

This work was carried out under the auspices of the work agreement between the Directorate General of Mineral Resources, Ministry of Petroleum and Mineral Resources, Kingdom of Saudi Arabia and the United States Geological Survey.

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*BRGM, France Bureau de Recherches Géologiques et Minières.

R A D I O M E T R I C A G E D E T E R M I N A T I O N S F O R S A U D I A R A B I A

RUN TITLE: FINAL LISTING AS OF 5 MAR 1981, MEG, USGS/SAM.

DATE: 05-MAR-81 TIME: 09:52:28
SELECTION AREA: LATITUDE MIN= 16.0000 MAX= 33.0000
LONGITUDE MIN= 35.0000 MAX= 46.0000

EXPLANATION OF TABLE HEADINGS

SERIAL NUMBER : ARBITRARY IDENTIFICATION NUMBER ASSIGNED TO THE DATED SPECIMEN OR LOCALITY.

LATITUDE : DATE LOCALITY LATITUDE IN DEGREES AND DECIMAL MINUTES.

LONGITUDE : DATE LOCALITY LONGITUDE IN DEGREES AND DECIMAL MINUTES.

AGE : RADIOMETRIC AGE IN MILLIONS OF YEARS.

UNCERT. : ANALYTICAL UNCERTAINTY IN AGE IN MILLIONS OF YEARS.

METHOD : METHOD OF AGE DETERMINATION; CODES AS FOLLOWS:

AR-AR S: ARGON 40-ARGON 39 PLATEAU SPECTRUM.

AR-AR F: ARGON 40-ARGON 39 FUSION.

K-AR: POTASSIUM-ARGON.

RB-SR: RUBIDIUM-STRONTIUM.

U-TH-PB: URANIUM-THORIUM-LEAD.

FISSION: FISSION TRACK.

THERMOL: THERMOLUMINESCENCE.

COM PB: COMMON LEAD.

PB-ALPH: LEAD ALPHA.

ROCK TYPE : ROCK TYPE OF DATED SPECIMEN.

RC : ROCK TYPE CODE.

M : MATERIAL DATED; E.G. W-WHOLE ROCK; B-BIOTITE; H-HORNBLENDE; P-PLAGIOCLASE; M-MUSCOVITE; F - FELDSPAR;

Z-ZIRCON; G-GALENA; A-ALLANITE; S-SPHENE; ETC.

MAP/STRAT UNIT : MAP OR STRATIGRAPHIC UNIT OF DATED SPECIMEN.

REFERENCES : SOURCE REFERENCE, CODED ACCORDING TO THE FOLLOWING SCHEME:

REFERENCE #,PAGE OF REF.,SAMPLE #. FOR 2 REFERENCES, SEPARATED BY A SEMICOLON.

EXAMPLE: 1,8,71-8-9A REFERS TO SAMPLE 71-8-9A ON PAGE 8 OF REFERENCE NUMBER 1.

NOTE: REFERENCES OF THE FORM "60/13" REFER TO "PRELIMINARY GEOCHRONOLOGICAL SAMPLE SHEETS"
ON FILE IN THE DGMR LIBRARY.THIS APPLIES TO REFERENCE #4 AND UNPUBLISHED DATES.

REFERENCES ARE LISTED BY NUMBER BELOW.

COMMENTS : UP TO 50 CHARACTERS OF COMMENTS; OCCURS ON LINE FOLLOWING ABOVE ITEMS FOR EACH DATE.

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RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
1	18 18.60	42 52.10	571.3	6.6	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;8;71-8-9A;2;12;71-8-9A KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
2	18 20.50	42 53.40	566.7	7.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-9B;2;12;71-8-9B KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
3	18 23.50	42 55.30	578.9	8.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-9C;2;12;71-8-9C KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
4	18 26.70	42 40.10	518.4	7.7	K-AR	BI.MUSC.GNEISS	GN	B			FLECK 1;8;71-8-9D;2;12;71-8-9D KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
5	18 26.70	42 40.10	624.9	7.6	K-AR	BI.MUSC.GNEISS	GN	M			FLECK 1;8;71-8-9D;2;12;71-8-9D KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
6	18 26.70	42 40.10	602.5	7.4	K-AR	BI.MUSC.GNEISS	GN	M			FLECK 1;8;71-8-9E;2;12;71-8-9E KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
7	18 26.70	42 40.10	605.6	7.6	K-AR	BI.MUSC.GNEISS	GN	M			FLECK 1;8;71-8-9F;2;12;71-8-9F KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
8	18 6.70	42 33.50	616.3	7.9	K-AR	SHONKINITE	SO	B			FLECK 1;8;71-8-10E;2;12;71-8-10E KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
9	18 6.70	42 33.50	623.4	7.1	K-AR	SHONKINITE	SO	B			FLECK 1;8;71-8-10F;2;12;71-8-10F KHAMIS MUSHAYT QUAD;DATE RECALC.NOV 80.
10	18 39.80	42 31.10	545.8	7.8	K-AR	RHYOLITE DIKE	RY	B			FLECK 1;8;71-8-11F;2;12;71-8-11F KHAYDAR QUAD;DATE RECALC.NOV 80.
11	18 48.70	42 37.70	529.1	6.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-11J;2;12;71-8-11J KHAYDAR QUAD;DATE RECALC.NOV 80.
12	18 48.70	42 37.70	589.7	7.0	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;8;71-8-11J;2;12;71-8-11J KHAYBAR QUAD;DATE RECALC.NOV 80.
13	18 40.70	42 39.50	562.2	7.5	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-11K;2;12;71-8-11K KHAYBAR QUAD;DATE RECALC.NOV 80.
14	19 51.50	41 39.00	759.1	10.3	K-AR	AMPHIBOLITE	AM	M			FLECK 1;8;71-8-13A;2;12;71-8-13A BILJURSHI QUAD;DATE RECALC.NOV 80.
15	19 50.50	41 19.00	602.4	9.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-14A;2;12;71-8-14A JABAL SHIDAH QUAD;DATE RECALC.NOV 80.
16	19 50.50	41 19.00	598.4	7.0	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;8;71-8-14A;2;12;71-8-14A JABAL SHIDAH QUAD;DATE RECALC.NOV 80.
17	20 25.50	41 8.50	610.3	7.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-14B;2;12;71-8-14B JABAL IBRAHIM QUAD;DATE RECALC.NOV 80.
18	19 48.00	41 52.50	617.9	7.8	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-15A;2;12;71-8-15A BILJURSHI QUAD;DATE RECALC.NOV 80.

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
19	19 44.50	41 52.50	604.4	7.1	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-15C;2;12;71-8-15C BILJURSHI QUAD;DATE RECALC.NOV 80.
20	20 7.20	41 55.00	587.6	7.0	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-15D;2;12;71-8-15D AQIQ QUAD;DATE RECALC.NOV 80.
21	20 7.00	41 55.00	576.3	7.0	K-AR	QTZ. MONZONITE	QM	H			FLECK 1;8;71-8-15D;2;12;71-8-15D AQIQ QUAD;DATE RECALC.NOV 80.
22	20 7.50	41 54.00	545.3	6.3	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;8;71-8-15E;2;12;71-8-15E AQIQ QUAD;DATE RECALC.NOV 80.
23	20 7.50	41 54.00	565.2	7.3	K-AR	QTZ. MONZONITE	QM	H			FLECK 1;8;71-8-15E;2;12;71-8-15E AQIQ QUAD;DATE RECALC.NOV 80.
24	20 46.00	43 43.40	583.8	6.8	K-AR	DIORITE	DR	H			FLECK 1;8;71-8-17A;2;12;71-8-17A JABAL YAFIKH;DATE RECALC.NOV 80.
25	20 47.90	43 43.40	650.5	11.8	K-AR	DIORITE	DR	H			FLECK 1;8;71-8-17B;2;12;71-8-17B JABAL YAFIKH;DATE RECALC.NOV 80.
26	20 51.30	43 41.20	620.2	7.1	K-AR	DIORITE	DR	H			FLECK 1;8;71-8-17C;2;12;71-8-17C JABAL YAFIKH;DATE RECALC.NOV 80.
27	20 52.80	43 39.90	610.1	7.6	K-AR	GRANODIORITE	GD	M			FLECK 1;8;71-8-17D;2;12;71-8-17D JABAL YAFIKH;DATE RECALC.NOV 80.
28	18 44.00	42 28.00	620.7	13.3	K-AR	GABBRO	GB	H			FLECK 1;9A;725-6F;2;12;725-6F JABAL YAFIKH;DATE RECALC.NOV 80.
29	18 44.00	42 28.00	633.5	8.8	K-AR	GABBRO	GB	B			FLECK 1;9;725-6F;2;13;725-6F 'AYA QUAD;DATE RECALC.NOV 80.
30	18 52.00	42 19.00	596.2	7.6	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;9A;725-6L;2;12;725-6L 'AYA QUAD;DATE RECALC.NOV 80.
31	18 43.70	42 9.10	567.5	7.2	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;9A;725-6M;2;12;725-6M 'AYA QUAD;DATE RECALC.NOV 80.
32	18 44.00	42 9.00	605.8	8.4	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;9A;725-6N;2;12;725-6N 'AYA QUAD;DATE RECALC.NOV 80.
33	18 48.20	42 7.10	531.2	6.8	K-AR	QTZ. MONZONITE	QM	B			FLECK 1;9A;725-6P;2;12;725-6P 'AYA QUAD;DATE RECALC.NOV 80.
34	18 48.20	42 7.10	589.1	7.3	K-AR	QTZ. MONZONITE	QM	M			FLECK 1;9A;725-6P;2;12;725-6P 'AYA QUAD;DATE RECALC.NOV 80.
35	18 44.00	42 2.00	565.8	8.2	K-AR	BI.MUSC.GNEISS	GN	B			FLECK 1;9A;725-6Q;2;12;725-6Q 'AYA QUAD;DATE RECALC.NOV 80.
36	18 58.90	42 2.70	578.2	7.2	K-AR	BI.MUSC.GNEISS	GN	B			FLECK 1;9A;725-7C;2;12;725-7C 'AYA QUAD;DATE RECALC.NOV 80.

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
37	18 58.90	42 2.70	574.6	7.4	K-AR	BI.MUSC.GNEISS	GN	M			FLECK 1,9A,725-7C;2,12,725-7C
											'AYA QUAD;DATE RECALC.NOV 80.
38	18 49.00	42 1.20	554.4	7.6	K-AR	BI.MUSC.GNEISS	GN	B			FLECK 1,9A,725-7E;2,12,725-7E
											'AYA QUAD;DATE RECALC.NOV 80.
39	18 23.90	42 54.00	25.3	2.0	K-AR	ALKALI BASALT	BA	W			FLECK 1,9A,725-8A;2,12,725-8A
											KHAYBAR QUAD,J.AL QARN;DATE RECALC.NOV 80.
40	18 36.60	42 38.40	577.2	7.2	K-AR	GRANITIC DIKE	GR	M			FLECK 1,9A,725-8B;2,12,725-8B
											KHAYBAR QUAD;DATE RECALC.NOV 80.
41	18 37.20	42 38.40	586.9	7.4	K-AR	GRANITIC DIKE	GR	B			FLECK 1,9A,725-8C;2,13,725-8C
											KHAYBAR QUAD;DATE RECALC.NOV 80.
42	18 37.20	42 38.40	577.7	7.3	K-AR	GRANITIC DIKE	GR	H			FLECK 1,9A,725-8C;2,13,725-8C
											KHAYBAR QUAD;DATE RECALC.NOV 80.
43	18 41.30	42 39.90	26.1	2.8	K-AR	ALKALI BASALT	BA	W			FLECK 1,9A,725-8D;2,13,725-8D
											KHAYBAR QUAD,BANI THAWR AREA;DATE RECALC.NOV 80.
44	18 39.80	42 33.00	538.6	6.8	K-AR	RHYOLITE DIKE	RY	B			FLECK 1,9A,725-8E;2,13,725-8E
											KHAYBAR QUAD;DATE RECALC.NOV 80.
45	18 52.00	41 59.00	583.0	8.4	K-AR	MICA SCHIST	SC	B			FLECK 1,9A,725-8L;2,13,725-8L
											WADI HALI QUAD;DATE RECALC.NOV 80.
46	18 56.00	41 59.00	587.7	7.8	K-AR	BI MUSC GNEISS	GN	M			FLECK 1,9A,725-8N;2,13,725-8N
											WADI HALI QUAD;DATE RECALC.NOV 80.
47	18 56.00	41 59.00	572.9	9.2	K-AR	BI.MUSC.GNEISS	GN	B			FLECK 1,9A,725-8N;2,13,725-8N
											WADI HALI QUAD;DATE RECALC.NOV 80.
48	19 29.00	41 36.00	775.5	11.3	K-AR	QUARTZ DIROITE	QD	B			FLECK 1,9A,725-9A;2,13,725-9A
											WADI YIBA QUAD;DATE RECALC.NOV 80.
49	19 29.00	41 36.00	774.6	21.6	K-AR	QUARTZ DIORITE	QD	H			FLECK 1,9A,725-9A;2,13,725-9A
											WADI YIBA QUAD;DATE RECALC.NOV 80.
50	19 13.00	41 47.00	582.3	7.3	K-AR	QTZ. MONZONITE	QM	B			FLECK 1,9A,725-9H;2,13,725-9H
											WADI YIBA QUAD;DATE RECALC.NOV 80.
51	19 13.00	41 47.00	591.0	7.4	K-AR	QTZ. MONZONITE	QM	M			FLECK 1,9A,725-9H;2,13,725-9H
											WADI YIBA QUAD;DATE RECALC.NOV 80.
52	19 12.00	41 45.00	577.7	7.4	K-AR	QTZ. MONZONITE	QM	B			FLECK 1,9A,725-9I;2,13,725-9I
											WADI YIBA QUAD;DATE RECALC.NOV 80.
53	19 2.00	41 45.00	569.8	7.3	K-AR	BI.HBL. GNEISS	GN	B			FLECK 1,9A,725-9J;2,13,725-9J
											WADI YIBA QUAD;DATE RECALC.NOV 80.
54	19 2.00	41 45.00	588.7	7.4	K-AR	BI.HBL. GNEISS	GN	H			FLECK 1,9A,725-9J;2,13,725-9J
											WADI YIBA QUAD;DATE RECALC.NOV 80.

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
55	19 6.00	41 57.00	566.3	8.0	K-AR	SYENITE	SY	B			FLECK 1,9A,725-9K;2,13,725-9K
											WADI YIBA QUAD;DATE RECALC.NOV 80.
56	19 8.00	41 58.00	649.3	9.4	K-AR	GABBRO	GB	H			FLECK 1,9A,725-9L;2,13,725-9L
											WADI YIBA QUAD;DATE RECALC.NOV 80.
57	19 11.00	41 45.00	583.5	7.3	K-AR	MICA SCHIST	SC	M			FLECK 1,9A,725-10A;2,13,725-10A
											WADI YIBA QUAD;DATE RECALC.NOV 80.
58	20 48.60	43 39.00	626.8	9.0	K-AR	DIORITE	DR	H			FLECK 1,9,71-8-17F;2,13,71-8-17F
											JABAL YAFIKH QUAD;DATE RECALC.NOV 80.
59	25 49.70	38 41.30	597.6	6.9	K-AR	RIBEKT GRANITE	GR	H			FLECK 1,9,71-8-22A;2,13,71-8-22A
											WAYBAN QUAD;DATE RECALC.NOV 80.
60	25 51.70	38 39.40	554.0	6.4	K-AR	GRANITE	GR	B			FLECK 1,9,71-8-22B;2,13,71-8-22B
											WAYBAN QUAD;DATE RECALC.NOV 80.
61	25 51.70	38 39.40	538.3	6.6	K-AR	GRANITE	GR	H			FLECK 1,9,71-8-22B;2,13,71-8-22B
											WAYBAN QUAD;DATE RECALC.NOV 80.
62	26 7.30	38 33.50	591.9	6.8	K-AR	QTZ. MONZONITE	QM	B			FLECK 1,9,71-8-22C;2,13,71-8-22C
											Q'AL AT A SAWRAH QUAD;DATE RECALC.NOV 80.
63	26 24.20	38 12.80	566.7	6.6	K-AR	RHYOLITE	RY	B			FLECK 1,9,71-8-23A;2,13,71-8-23A
											SAHL AL MATRAN QUAD;DATE RECALC.NOV 80.
64	26 24.20	38 12.80	581.9	6.8	K-AR	RHYOLITE	RY	B			FLECK 1,9,71-8-23B;2,13,71-8-23B
											SAHL AL MATRAN QUAD;DATE RECALC.NOV 80.
65	18 57.10	42 43.90	596.5	7.6	K-AR	PEGMATITE DIKE	PG	M			FLECK 1,9,K-139;2,13,K-139
											KHAYBAR QUAD;DATE RECALC.NOV 80.
66	20 3.60	42 54.30	603.0	8.3	K-AR	GRANODI GNEISS	GD	B			FLECK 1,9,724-28N;2,13,724-28N
											BISHAH QUAD;DATE RECALC.NOV 80.
67	20 3.60	42 54.30	606.3	7.6	K-AR	GRANODI GNEISS	GD	H			FLECK 1,9,724-28N;2,13,724-28N
											BISHAH QUAD;DATE RECALC.NOV 80.
68	20 16.50	42 42.00	611.8	7.8	K-AR	GRANITE	GR	B			FLECK 1,9,724-29A;2,13,724-29A
											BISHAH QUAD;DATE RECALC.NOV 80.
69	20 16.70	42 38.20	606.0	7.6	K-AR	GRANITE	GR	B			FLECK 1,9,724-29B;2,13,724-29B
											BISHAH QUAD;DATE RECALC.NOV 80.
70	20 16.70	42 38.20	544.8	14.5	K-AR	GRANITE	GR	P			FLECK 1,9,724-29B;2,13,724-29B
											BISHAH QUAD;DATE RECALC.NOV 80.
71	19 46.50	42 55.40	636.0	7.4	K-AR	DIORITE GNEISS	DR	B			FLECK 1,9,724-29H;2,13,724-29H
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
72	19 46.50	42 55.40	611.1	7.6	K-AR	DIORITE GNEISS	DR	H			FLECK 1,9,724-29H;2,13,724-29H
											WADI HARJAB QUAD;DATE RECALC.NOV 80.

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
73	19 46.50	42 55.40	607.5	7.7	K-AR	DIORITE GNEISS	DR	B			FLECK 1,9,724-29I;2,13,724-29I
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
74	19 46.50	42 55.40	629.7	8.1	K-AR	DIORITE GNEISS	DR	H			FLECK 1,9,724-29I;2,13,724-29I
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
75	19 50.50	42 51.50	590.8	8.0	K-AR	DIORITE GNEISS	DR	H			FLECK 1,9,724-29J;2,13,724-29J
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
76	19 50.50	42 51.50	558.2	11.9	K-AR	DIORITE GNEISS	DR	P			FLECK 1,9,724-29J;2,13,724-29J
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
77	19 49.90	42 48.80	536.1	6.8	K-AR	BIOTITE SCHIST	SC	B			FLECK 1,9,724-30A;2,13,724-30A
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
78	19 41.80	42 52.80	405.5	21.6	K-AR	GABBRO	GB	P			FLECK 1,9,724-30J;2,13,724-30J
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
79	19 42.30	42 48.30	595.9	8.9	K-AR	GRANITE	GR	B			FLECK 1,9,724-30K;2,13,724-30K
											WADI HARJAB QUAD;DATE RECALC.NOV 80.
80	18 2.00	42 2.80	492.9	6.2	K-AR	AL MUS GRANITE	GR	B			FLECK 1,9,725-5G;2,13,725-5G
											JABAL SAWDAH QUAD;DATE RECALC.NOV 80.
81	18 2.00	42 2.80	653.1	8.2	K-AR	AL MUS GRANITE	GR	M			FLECK 1,9,725-5G;2,13,725-5G
											JABAL SAWDAH QUAD;DATE RECALC.NOV 80.
82	18 13.70	42 28.70	636.2	8.6	K-AR	SHONKNITE DIKE	SO	B			FLECK 1,9,725-5P;2,13,725-5P
											JABAL SAWDAH QUAD;DATE RECALC.NOV 80.
83	18 45.00	42 31.00	625.9	8.2	K-AR	GABBRO	GB	B			FLECK 1,9,725-6E;2,13,725-6E
											KHAYBAR QUAD;DATE RECALC.NOV 80.
84	18 45.00	42 31.00	644.3	12.3	K-AR	GABBRO	GB	H			FLECK 1,9,725-6E;2,13,725-6E
											KHAYBAR QUAD;DATE RECALC.NOV 80.
85	19 55.00	41 37.00	737.0	8.2	AR-AR F	DIORITE	DR	H			FLECK 1,10,71-8-13H;2,14,71-8-13H
											BILJURSHI QUAD;DATE RECALC.NOV 80.
86	19 51.00	41 36.00	793.0	35.9	AR-AR F	DIORITE	DR	H			FLECK 1,10,71-8-13I;2,14,71-8-13I
											BILJURSHI QUAD;DATE RECALC.NOV 80.
87	19 50.00	41 34.50	697.0	9.2	AR-AR F	DIORITE	DR	H			FLECK 1,10,71-8-13J;2,14,71-8-13J
											BILJURSHI QUAD;DATE RECALC.NOV 80.
88	19 44.50	41 53.00	630.0	8.2	AR-AR F	DIORITE	DR	B			FLECK 1,10,71-8-15B;2,14,71-8-15B
											BILJURSHI QUAD;DATE RECALC.NOV 80.
89	19 44.50	41 53.00	635.0	16.4	AR-AR F	DIORITE	DR	H			FLECK 1,10,71-8-15B;2,14,71-8-15B
											BILJURSHI QUAD;DATE RECALC.NOV 80.
90	20 50.20	43 38.50	632.0	19.5	AR-AR F	DIORITE	DR	H			FLECK 1,10,71-8-17E;2,14,71-8-17E
											JABAL YAFIKH QUAD;DATE RECALC.NOV 80.

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
91	18 45.20	42 53.40	854.0	11.3	AR-AR	F TROCTOLITE	GB	P			FLECK 1,10,527-10;2,14,527-10
											KHAYBAR QUAD;DATE RECALC.NOV 80.
92	18 43.70	42 9.10	585.0	5.6	AR-AR	F QTZ. MONZONITE	QM	M			FLECK 1,10,725-6M;2,14,725-6M
											JABAL 'AYA QUAD;DATE RECALC.NOV 80.
93	18 44.10	42 52.90	1382.0	20.5	AR-AR	F GABBRO	GB	W			FLECK 1,10,58648;2,14,59648
											KHAYBAR QUAD;DATE RECALC.NOV 80.
94	18 45.20	42 53.40	522.0	16.4	AR-AR	F GABBRO	GB	P			FLECK 1,10,58683;2,14,58643
											KHAYBAR QUAD;DATE RECALC.NOV 80.
95	18 26.70	42 40.10	587.5	4.3	AR-AR	S BI MUSC GNEISS	GN	M			FLECK 1,20,71-8-9D;2,14,71-8-9D
											KHAMIS MUSHAYT QUAD
96	18 10.70	42 47.60	629.3	4.3	AR-AR	S HBL DIORITE	DR	H			FLECK 1,20,71-8-11L;2,14,71-8-11L
											KHAMIS MUSHAYT QUAD
97	20 7.00	41 55.00	566.8	6.8	K-AR	QTZ. MONZONITE	QM	H			FLECK 1,20,71-8-15D;2,12,71-8-15D
											NO PLATEAU AGE, AQIQ QUAD
98	20 47.90	43 43.40	640.5	11.5	K-AR	DIORITE	DR	H			FLECK 1,21,71-8-17B;2,12,71-8-17B
											NO PLATEAU AGE, JABAL YAFIKH QUAD
99	20 52.80	43 39.90	613.1	4.9	AR-AR	S GRANODIORITE	GD	M			FLECK 1,21,71-8-17D;2,14,71-8-17D
											JABAL YAFIKH QUAD
100	18 45.90	42 53.20	616.4	4.2	AR-AR	S GABBRO	GB	H			FLECK 1,21,K1-154;2,14,K1-154
											KHAYBAR QUAD
101	20 16.50	42 42.00	605.7	6.3	AR-AR	S GRANITE	GR	H			FLECK 1,22,724-29A;2,14,724-29A
											BISHAH QUAD
102	19 46.50	42 55.40	601.4	7.4	K-AR	GNEISS	GN	H			FLECK 1,22,724-29H;2,13,724-29H
											NO PLATEAU AGE, WADI HARJAB QUAD
103	19 50.50	42 51.50	581.2	7.8	K-AR	GNEISS	GN	H			FLECK 1,22,724-29J;2,13,724-29J
											NO PLATEAU AGE, WADI HARJAB QUAD
104	18 44.00	42 2.00	556.5	2.9	AR-AR	S GNEISS	GN	M			FLECK 1,22,725-6Q;2,14,7256Q
											JABAL 'AYA QUAD
105	28 51.67	35 9.28	480.0	0.0	K-AR	GRANODIORITE	GD	H			ALDRICH 4,2,1
											WADI AFAL
106	28 35.13	35 4.30	920.0	200.0	RB-SR	BI GRANITE	GR	F			ALDRICH 4,2,2
											WADI MOSS
107	28 33.47	35 24.58	430.0	0.0	RB-SR	BI GRANITE	GR	B			ALDRICH 4,2,3
											JEBEL LAUZ
108	28 2.17	35 44.78	630.0	0.0	K-AR	DIORITE	DR	H			ALDRICH 4,2,4
											SHAIB AS SIQ

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
109	28 2.43	35 47.08	425.0	0.0	K-AR	AMPHIB SCHIST	AM	H	SHAIB AS SIQ	ALDRICH	4,2,5
110	27 55.40	35 36.13	645.0	0.0	RB-SR	MICROC GRANITE	GR	F	JEBEL HARB	ALDRICH	4,2,6;63/01
111	27 55.33	35 37.23	565.0	0.0	K-AR	CHARNOCKITE	CH	H	JEBEL HARB	ALDRICH	4,2,7;63/02
112	27 42.70	35 42.52	1190.0	0.0	K-AR	META-ANDESITE	AN	H	JEBEL SHAR	ALDRICH	4,2,8;63/03
113	27 8.55	42 7.37	575.0	0.0	RB-SR	BI GRANITE	GR	B	JEBEL SELMA	ALDRICH	4,2,9;60/01
114	27 8.55	42 7.37	505.0	50.0	RB-SR	BI GRANITE	GR	F	JEBEL SELMA	ALDRICH	4,2,9;60/01
115	27 8.55	42 7.37	590.0	0.0	K-AR	BI GRANITE	GR	B	JEBEL SELMA	ALDRICH	4,2,9;60/02
116	26 16.15	42 19.40	610.0	40.0	RB-SR	ORTHOC GRANITE	GR	B	JEBEL TIN	ALDRICH	4,2,10;60/04
117	26 16.15	42 19.40	645.0	0.0	K-AR	ORTHOC GRANITE	GR	B	JEBEL TIN	ALDRICH	4,2,10;60/03
118	25 33.53	38 13.58	340.0	70.0	RB-SR	ALB BI GRANITE	GR	B	JEBEL AL ASAAD	ALDRICH	4,2,11
119	25 33.53	38 13.58	490.0	0.0	K-AR	ALB BI GRANITE	GR	B	JEBEL AL ASAAD	ALDRICH	4,2,11
120	24 57.42	43 51.90	525.0	0.0	RB-SR	BI GRANDIORITE	GD	B	JEBEL UM AD DIBAN	ALDRICH	4,2,12;60/06
121	24 57.42	43 51.90	575.0	0.0	RB-SR	GRANODIORITE	GD	F	JEBEL UM AD DIBAN	ALDRICH	4,2,12;60/06
122	24 57.42	43 51.90	585.0	0.0	K-AR	GRANODIORITE	GD	B	JEBEL UM AD DIBAN	ALDRICH	4,2,12;60/05
123	24 50.00	43 55.20	590.0	0.0	RB-SR	BI GRANITE	GR	B	JEBEL JABALAH	ALDRICH	4,2,13;60/08
124	24 50.00	43 55.20	575.0	0.0	K-AR	BI GRANITE	GR	B	JEBEL JABALAH	ALDRICH	4,2,13;60/07
125	23 47.70	44 48.40	550.0	0.0	RB-SR	BI PER GRANITE	PA	B	JEBEL ZA'ABAH	ALDRICH	4,2,14;60/09
126	23 47.70	44 48.40	655.0	0.0	RB-SR	BI PER GRANITE	PA	F	JEBEL ZA'ABAH	ALDRICH	4,2,14

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
127	23 47.70	44 48.40	540.0	0.0	K-AR	BI PER GRANITE	PA	B		ALDRICH	4,2,14;60/10
									JEBEL ZA'ABAH		
128	23 41.20	41 38.10	915.0	0.0	K-AR	GRANODI GNEISS	GD	H		ALDRICH	4,2,15;60/13
									JEBEL HAMAM		
129	23 41.20	41 38.10	730.0	0.0	K-AR	GRANODI GNEISS	GD	B		ALDRICH	4,2,15;60/14
									JEBEL HAMAM		
130	23 41.20	41 38.10	665.0	0.0	RB-SR	GRANODI GNEISS	GD	B		ALDRICH	4,2,15;60/11
									JEBEL HAMAM		
131	23 18.10	45 14.52	1010.0	0.0	RB-SR	GRANITE GNEISS	GR	B		ALDRICH	4,2,16;60/12
									JEBEL QUSAS		
132	23 18.10	45 14.52	560.0	0.0	K-AR	GRANITE GNEISS	GR	B		ALDRICH	4,2,16;60/15
									JEBEL QUSAS		
133	22 36.27	44 55.50	540.0	0.0	RB-SR	BI GRANITE	GR	B		ALDRICH	4,2,17;60/17
									JEBEL ZA'N (E. BATHOLITH)		
134	22 36.27	44 55.50	550.0	0.0	K-AR	BI GRANITE	GR	B		ALDRICH	4,2,17;60/16
									JEBEL JA'N (E. BATHOLITH)		
135	21 30.82	39 16.10	1025.0	0.0	RB-SR	MICA GRANITE	GR	B		ALDRICH	4,2,18;59/04
									JIDDA		
136	21 30.82	39 16.10	720.0	0.0	K-AR	MICA GRANITE	GR	B		ALDRICH	4,2,18;59/03
									JIDDA		
137	21 30.00	39 57.20	965.0	0.0	RB-SR	TRONDHJEMITE	TJ	B		ALDRICH	4,2,19;59/05
									MECCA		
138	21 30.00	39 57.20	760.0	0.0	K-AR	TRONDHJEMITE	TJ	B		ALDRICH	4,2,19;59/06
									MECCA		
139	21 32.18	40 1.87	825.0	0.0	RB-SR	PEGMATITE	PG	M		ALDRICH	4,2,20;59/07
									MECCA		
140	21 32.18	40 1.87	800.0	0.0	K-AR	PEGMATITE	PG	M		ALDRICH	4,2,20;59/08
									MECCA		
141	21 13.90	40 24.10	525.0	0.0	RB-SR	B QZ MONZONITE	QM	B		ALDRICH	4,2,21;60/19
									TAIF		
142	21 13.90	40 24.10	535.0	0.0	K-AR	B QZ MONZONITE	QM	B		ALDRICH	4,2,21;60/18
									TAIF		
143	20 51.82	41 16.43	515.0	0.0	RB-SR	MIC BI GRANITE	GR	B		ALDRICH	4,2,22;60/20
									SE JEBEL QUNAH		
144	20 51.82	41 16.43	635.0	0.0	RB-SR	MIC BI GRANITE	GR	F		ALDRICH	4,2,22
									SE JEBEL QUNAH		

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
									COMMENTS		
145	20 51.82	41 16.43	400.0	0.0	K-AR	MIC BI GRANITE	GR	B		ALDRICH	4,2,22;60/21
									SE JEBEL QUNAH		
146	20 43.40	41 14.55	785.0	0.0	RB-SR	QUARTZ DIORITE	QD	B		ALDRICH	4,2,23;59/10
									WADI TURABA		
147	20 43.40	41 14.55	615.0	0.0	K-AR	QUARTZ DIORITE	QD	B		ALDRICH	4,2,23;59/09
									WADI TURABA		
148	20 27.50	41 57.50	575.0	0.0	RB-SR	PERALK GRANITE	PA	B		ALDRICH	4,2,24;60/23
									JEBEL RAFA		
149	20 27.50	41 57.50	565.0	0.0	K-AR	PERALK GRANITE	PA	B		ALDRICH	4,2,24;60/22
									JEBEL RAFA		
150	20 27.50	41 57.50	565.0	0.0	RB-SR	PERALK GRANITE	PA	F		ALDRICH	4,2,24
									JEBEL RAFA		
151	20 21.00	42 1.60	720.0	0.0	RB-SR	CALALK GRANITE	GR	B		ALDRICH	4,2,25;60/25
									WADI RANYA		
152	20 21.00	42 1.60	740.0	0.0	K-AR	CALALK GRANITE	GR	B		ALDRICH	4,2,25;60/24
									WADI RANYA		
153	17 42.22	43 7.42	400.0	0.0	K-AR	BI GRANITE	GR	W		ALDRICH	4,2,26
									WADI WAHRUGH (D-34)		
154	17 42.50	43 17.50	525.0	0.0	K-AR	ORTHOC GRANITE	GR	W		ALDRICH	4,2,27
									WADI QA'A (D-24)		
155	27 42.00	41 25.00	492.0	15.0	RB-SR	GRANITE	GR	W		BROWN	4,11,59A
156	27 42.00	41 25.00	580.0	18.0	RB-SR	GRANITE	GR	W		BROWN	4,11,59B
157	25 45.00	40 45.00	651.0	40.0	RB-SR	RHYOLITE	RY	W		BROWN	4,11,68
158	25 36.00	41 26.00	651.0	40.0	RB-SR	RHYOLITE	RY	W		BROWN	4,11,71
159	23 51.00	40 56.00	651.0	40.0	RB-SR	RHYOLITE	RY	W		BROWN	4,11,98
160	24 30.00	39 30.00	673.0	60.0	RB-SR	GRANITE	GR	W		BROWN	4,11,77;67/02
161	23 42.00	39 40.00	633.0	15.0	RB-SR	DACITE	DC	W		BROWN	4,11,94
162	23 23.00	39 44.00	633.0	15.0	RB-SR	DACITE	DC	W		BROWN	4,11,106

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
163	23 36.00	40 32.00	520.0	15.0	RB-SR	GRANITE	GR	B			BROWN 4,11,95
164	23 30.00	40 50.00	572.0	35.0	RB-SR	PORPHY FELSITE	FE	W			BROWN 4,11,96
165	23 32.00	40 54.00	572.0	35.0	RB-SR	PORPHY FELSITE	FE	W			BROWN 4,11,97
166	23 56.00	40 59.00	731.0	15.0	RB-SR	QTZ. MONZONITE	QM	W			BROWN 4,11,99
167	20 30.20	40 49.00	731.0	15.0	RB-SR	QTZ. MONZONITE	QM	W			BROWN 4,11,107
168	23 32.00	41 6.00	692.0	15.0	RB-SR	GRANITE	GR	W		RING STRUCTURE	BROWN 4,12,100A;66/01
169	23 32.00	41 6.00	692.0	15.0	RB-SR	GRANITE	GR	F		K-FELDSPAR, RING STRUCTURE	BROWN 4,12,100B;66/01
170	23 32.00	41 6.00	692.0	15.0	RB-SR	GRANITE	GR	W		RING STRUCTURE	BROWN 4,12,100C;66/01
171	23 32.00	41 10.00	590.0	10.0	RB-SR	GRANITE	GR	W		CIRCULAR PLUTON	BROWN 4,12,101A;66/02?
172	23 32.00	41 10.00	590.0	10.0	RB-SR	GRANITE	GR	W		CIRCULAR PLUTON	BROWN 4,11,101B;66/02?
173	23 32.00	41 10.00	590.0	10.0	RB-SR	GRANITE	GR	W		CIRCULAR PLUTON	BROWN 4,12,101C;66/02?
174	23 27.00	41 21.00	555.0	15.0	RB-SR	GRANITE	GR	B			BROWN 4,12,108
175	20 2.00	41 51.00	617.0	10.0	RB-SR	GRANODIORITE	GD	W			BROWN 4,12,135A;69/50
176	20 2.00	41 51.00	617.0	10.0	RB-SR	GRANODIORITE	GD	W			BROWN 4,12,135B;69/51
177	20 11.00	41 52.00	582.0	20.0	RB-SR	QTZ. MONZONITE	QM	W			BROWN 4,12,137;69/44
178	21 58.00	43 49.00	530.0	20.0	RB-SR	GRANITE GNEISS	GR	F		K-FELDSPAR, J. EL FU'AD	BROWN 4,12,169;69/20
179	20 55.00	44 23.00	576.0	25.0	RB-SR	GRANITE	GR	W			BROWN 4,12,170B;66/05
180	19 33.00	41 44.00	583.0	15.0	RB-SR	GRANITE	GR	W			BROWN 4,12,193;67/11

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
181	17 57.00	42 11.00	549.0	30.0	RB-SR	GRANITE	GR	W		BROWN	4,12,224;67/03?
182	18 20.00	44 15.00	586.0	35.0	RB-SR	RHYOLITE	RY	W		BROWN	4,12,233;67/13
183	18 7.00	44 14.00	585.0	10.0	RB-SR	PEGMATITE	PG	F	MICROCLINE	BROWN	4,12,234;67/15
184	18 8.00	44 15.00	550.0	20.0	RB-SR	GRANI PORPHYRY	GR	W		BROWN	4,12,235;67/14
185	17 26.00	42 54.00	694.0	30.0	RB-SR	GRANITE	GR	W	J. HARRIB	BROWN	4,12,240;67/05
186	27 45.00	36 10.00	515.0	17.0	K-AR	ANDESITE	AN	W		BROWN	4,13,22
187	26 47.00	37 5.00	591.0	18.0	K-AR	GRANITE	GR	B		BROWN	4,13,26;67/19
188	26 13.00	37 26.00	605.0	18.0	K-AR	GRANITE	GR	B		BROWN	4,13,34;67/18
189	26 28.00	38 13.00	528.0	20.0	K-AR	ANDESITE	GR	B	J. EL NATHER, FLOW OR HYPAB, INTRUSIVE	BROWN	4,13,40;68/12
190	26 20.00	38 37.00	532.0	15.0	K-AR	ANDESITE	GR	W	DIKE	BROWN	4,13,44;68/22
191	25 48.00	38 18.00	567.0	16.0	K-AR	GNEISS	GN	B		BROWN	4,13,54;67/01
192	25 48.00	39 13.00	827.0	40.0	K-AR	DIORITE	DR	H		BROWN	4,13,65;68/11
193	25 33.00	40 45.00	299.0	11.0	K-AR	ANDESITE	AN	W	ALTERED ANDESITE	BROWN	4,13,67
194	25 33.00	40 45.00	548.0	18.0	K-AR	ANDESITE	AN	W		BROWN	4,13,69
195	24 52.00	39 11.00	525.0	16.0	K-AR	ANDESITE	AN	W	SILL	BROWN	4,13,72;68/20
196	25 1.00	43 48.00	577.0	15.0	K-AR	GRANITE	GR	B	NIFI BATHOLITH	BROWN	4,13,89;68/13
197	24 30.00	43 19.00	595.0	12.0	K-AR	GRANITE	GR	B	J. AL ARAYIS	BROWN	4,14,92;67/12
198	23 29.00	41 23.00	566.0	30.0	K-AR	BASALT	BA	W		BROWN	4,14,102;68/08

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
199	23 50.00	41 25.00	506.0	15.0	K-AR	DIABASE DIKE	DB	W			BROWN 4,14,103;68/09
200	22 24.00	39 24.00	585.0	12.0	K-AR	SCHIST	SC	H			BROWN 4,14,112
201	21 35.00	39 38.00	592.0	23.0	K-AR	ALTERED BASALT	BA	W			BROWN 4,14,117A;70/01 ALTERED BASALT IN FATIMAH SERIES
202	21 35.00	39 38.00	576.0	28.0	K-AR	DACITE	DC	W			BROWN 4,14,117B;70/02 IN FATIMA
203	21 43.00	40 27.00	549.0	20.0	K-AR	GRANITE	GR	B			BROWN 4,14,119;67/09
204	21 41.00	40 40.00	577.0	18.0	K-AR	QTZ. MONZONITE	QM	B			BROWN 4,14,120;67/17
205	21 41.00	40 41.00	570.0	17.0	K-AR	GRANITE	GR	B			BROWN 4,14,121;67/16
206	20 32.00	41 25.00	827.0	16.0	K-AR	DIORITE	DR	H			BROWN 4,14,128;69/56 HORNBLENDE WITH 5% IMPURITIES
207	20 32.00	41 31.00	932.0	46.0	K-AR	GRANODIORITE	GD	H			BROWN 4,14,129A;69/46
208	20 32.00	41 31.00	821.0	16.0	K-AR	GRANODIORITE	GD	H			BROWN 4,14,129A;69/47 HORNBLENDE WITH 5% IMPURITIES
209	20 32.00	41 31.00	912.0	18.0	K-AR	GRANODIORITE	GD	H			BROWN 4,15,129B;69/48
210	20 26.00	40 26.00	805.0	16.0	K-AR	QUARTZ DIORITE	QD	A			BROWN 4,15,130;69/55 AMPHIBOLE WITH 15% IMPURITIES, LITH CMPLX
211	20 26.00	40 49.00	595.0	12.0	K-AR	PARASCHIST	SC	M			BROWN 4,15,131;69/53
212	20 28.00	40 56.00	717.0	18.0	K-AR	GNEISS	GN	H			BROWN 4,15,132;69/52 LITH COMPLEX
213	20 10.00	41 52.00	585.0	39.0	K-AR	BASALT	BA	W			BROWN 4,15,136;69/45
214	23 39.00	43 8.00	561.0	25.0	K-AR	ANDESITE	AN	W			BROWN 4,15,141A;67/06 MURDAMA CONGLOMERATE
215	23 39.00	43 8.00	560.0	20.0	K-AR	DACITE	DC	W			BROWN 4,15,141B;67/07 MURDAMA-BOULDER IN TOP
216	22 53.00	44 56.00	580.0	12.0	K-AR	GRANITE	GR	B			BROWN 4,15,148 BIOTITE +60 MESH

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
217	22 53.00	44 56.00	585.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,15,148
											BIOTITE -60 MESH
218	22 19.00	42 24.00	644.0	23.0	K-AR	GABBRO	GB	B		BROWN	4,15,151;69/03
											HALABAN INTRUSIVE
219	22 25.00	43 48.00	496.0	12.0	K-AR	GRANITE	GR	P		BROWN	4,15,153;69/18
220	21 14.08	43 56.48	596.0	12.0	K-AR	QUARTZ DIORITE	QD	H		BROWN	4,16,165;69/19
											HORNBLENDE WITH 20% IMPURITIES, J. TARBAN
221	20 32.00	42 32.00	778.0	16.0	K-AR	TROCTOLITE	GB	W		BROWN	4,16,168A;9,D149,527-12;69/40
											HISHAT AL HAWI
222	20 32.00	42 32.00	710.0	16.0	K-AR	TROCTOLITE	GB	W		BROWN	4,16,168B;9,D149,527-15A;69/41
											HISHAT AL HAWI
223	21 58.00	43 49.00	539.0	20.0	K-AR	GRANITE GNEISS	GR	P		BROWN	4,16,169;69/21
											PLAGIOCLASE AND QUARTZ
224	20 17.00	42 8.00	826.0	16.0	K-AR	GRANITE	GR	B		BROWN	4,16,173
											BIOTITE WITH 10% IMPURITIES
225	20 17.00	42 8.00	711.0	30.0	K-AR	GRANITE	GR	H		BROWN	4,16,173;69/22
226	20 16.00	42 28.00	484.0	10.0	K-AR	BASALT	BA	W		BROWN	4,16,175;69/42
227	23 58.00	45 1.00	598.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,16,180A;69/11
228	23 58.00	45 1.00	584.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,16,180B;69/12
229	23 58.00	45 5.00	597.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,16,181;69/10
											QUDAY'AN BATHOLITH
230	23 41.00	45 8.00	597.0	12.0	K-AR	GRANODIORITE	GD	B		BROWN	4,16,183;69/13
231	23 53.00	45 7.00	583.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,17,184;69/09
											IMPURE BIOTITE
232	23 53.00	45 7.00	546.0	5.0	K-AR	GRANITE	GR	H		BROWN	4,17,184
233	23 1.00	45 29.00	589.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,17,187;69/14
234	23 1.00	45 33.00	619.0	12.0	K-AR	GRANITE	GR	B		BROWN	4,17,188;69/15

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
235	23 1.00	45 33.00	629.0	12.0	K-AR	GRANITE	GR	H			BROWN 4,17,188;69/15
236	22 36.00	45 7.00	632.0	12.0	K-AR	GRANITE	GR	B			BROWN 4,17,189;69/16 BIOTITE WITH MINOR HORNBLENDE
237	22 36.00	45 7.00	611.0	12.0	K-AR	GRANITE	GR	H			BROWN 4,17,189;69/17
238	19 55.00	41 33.00	759.0	20.0	K-AR	GRANITE	GR	B			BROWN 4,17,190;69/10
239	19 53.00	41 37.00	646.0	12.0	K-AR	GRANITE GNEISS	GR	H			BROWN 4,17,191A HORNBLENDE WITH 10% IMPURITIES
240	19 53.00	41 37.00	759.0	31.0	K-AR	GRANITE GNEISS	GR	H			BROWN 4,17,191B;69/49
241	19 53.00	41 37.00	694.0	14.0	K-AR	GRANITE GNEISS	GR	H			BROWN 4,17,191B HORNBLENDE WITH 20% IMPURITIES
242	19 52.00	41 43.00	607.0	12.0	K-AR	GNEISS	GN	H			BROWN 4,18,192
243	19 35.00	41 53.00	676.0	28.0	K-AR	QUARTZ DIORITE	QD	P			BROWN 4,18,194;67/04
244	19 9.00	43 48.00	578.0	12.0	K-AR	GABBRO	GB	W			BROWN 4,18,213A;9,D149,525-1;69/38 J. AL ASH SHA COMPLEX
245	19 9.00	43 48.00	516.0	10.0	K-AR	GABBRO	GB	W			BROWN 4,18,213B;9,D149,525-4;69/39 J. AL ASH SHA COMPLEX
246	18 45.00	42 53.00	656.0	14.0	K-AR	NORITE	NO	W			BROWN 4,18,219A;9,D149,511-D;69/27 J.SHAYI
247	18 45.00	42 53.00	484.0	10.0	K-AR	NORITE	NO	W			BROWN 4,18,219B;9,D149,511-G;69/28 J.SHAYI
248	18 56.00	43 2.00	494.0	12.0	K-AR	NORITE	NO	W			BROWN 4,18,221A;9,D149,521-E;69/36 W. EL MISHAB COMPLEX
249	18 56.00	43 2.00	422.0	8.0	K-AR	NORITE	NO	W			BROWN 4,18,221B;9,D149,521-F;69/37 W. EL MISHAB COMPLEX
250	18 13.00	42 32.00	655.0	12.0	K-AR	DIORITE	DR	B			BROWN 4,18,225A;69/26
251	18 13.00	42 32.00	615.0	12.0	K-AR	DIORITE	DR	H			BROWN 4,18,225A
252	18 13.00	42 32.00	686.0	14.0	K-AR	DIORITE	DR	B			BROWN 4,18,225B BIOTITE WITH 20% IMPURITIES

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
253	18 24.00	42 42.00	649.0	23.0	K-AR	GABBRO	GB	B			BROWN 4,18,228A;9,D149,504A;69/23
										KHAMIS MUSHAYT	
254	18 24.00	42 42.00	615.0	12.0	K-AR	PEGMATITE	PG	M			BROWN 4,19,228B;9,D149,505;69/24
										KHAMIS MUSHAYT	
255	18 8.00	44 7.00	588.0	17.0	K-AR	ANDESITE	AN	W			BROWN 4,19,229A;68/05
										DRILL HOLE A-2, 79.1-79.3 M DEPTH	
256	18 8.00	44 7.00	577.0	16.0	K-AR	ANDESITE	AN	W			BROWN 4,19,229B;68/03
										DRILL HOLE A-2, 95.1-95.4 M DEPTH	
257	18 8.00	44 7.00	572.0	15.0	K-AR	ANDESITE	AN	W			BROWN 4,19,229C;68/04
										DRILL HOLE A-2, 103.9-104.1 M DEPTH	
258	18 8.00	44 7.00	571.0	15.0	K-AR	ANDESITE	AN	W			BROWN 4,19,229D;68/06
										DRILL HOLE A-2, 120.7-120.8 M DEPTH	
259	18 8.00	44 7.00	595.0	18.0	K-AR	ANDESITE	AN	W			BROWN 4,19,229E;68/07
										DRILL HOLE A-2, 121.3-121.5 M DEPTH	
260	18 24.00	44 11.00	544.0	15.0	K-AR	ANDESITE	AN	W			BROWN 4,19,230;68/14
										DIKE	
261	18 22.00	44 14.00	519.0	15.0	K-AR	ANDESITE	AN	W			BROWN 4,19,231A;68/16
										DIKE	
262	18 22.00	44 14.00	579.0	22.0	K-AR	ANDESITE	AN	W			BROWN 4,19,231B;68/17
263	18 20.00	44 15.00	575.0	15.0	K-AR	ANDESITE	AN	W			BROWN 4,19,232;68/15
										DIKE	
264	18 6.00	44 15.00	600.0	24.0	K-AR	DIORITE	DR	W			BROWN 4,19,234;68/18
265	18 7.00	44 15.00	565.0	16.0	K-AR	FELSITE DIKE	FE	W			BROWN 4,19,236;68/19
										DIKE	
266	20 22.60	40 15.90	1165.0	110.0	RB-SR	METABASALT	BA	W			FLECK 5,26,743-3H
										BASALT, WADI AL FAQH	
267	20 22.60	40 15.90	1165.0	110.0	RB-SR	METABASALT	BA	W			FLECK 5,26,743-3I
										BASALT, WADI AL FAQH	
268	20 22.60	40 15.90	165.0	110.0	RB-SR	METABASALT	BA	W			FLECK 5,26,743-3J
										BASALT, WADI AL FAQH	
269	20 48.60	43 48.90	568.0	29.0	RB-SR	RHYOLITE TUFF	RY	W			FLECK 5,24,71-8-18M
										RHYOLITE OF MURDAMA GROUP	
270	20 48.60	43 48.90	568.0	29.0	RB-SR	RHYOLITE TUFF	RY	W			FLECK 5,24,71-8-18N
										RHYOLITE OF MURDAMA GROUP	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
271	20 48.60	43 48.90	568.0	29.0	RB-SR	RHYOLITE TUFF	RY	W			FLECK 5,24,71-8-18P
											RHYOLITE OF MURDAMA GROUP
272	20 8.20	42 51.00	785.0	96.0	RB-SR	ANDESITE TUFF	AN	W			FLECK 5,24,724-28J
											META-ANDESITE, JUNAYNAH QUADRANGLE
273	20 8.20	42 51.00	785.0	96.0	RB-SR	ANDESITE TUFF	AN	W			FLECK 5,24,724-28K
											META-ANDESITE, JUNAYNAH QUADRANGLE
274	20 8.20	42 51.00	785.0	96.0	RB-SR	ANDESITE TUFF	AN	W			FLECK 5,24,724-28L
											META-ANDESITE, JUNAYNAH QUADRANGLE
275	17 40.80	43 45.10	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19R
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
276	17 40.80	43 45.10	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19S
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
277	17 40.80	43 45.10	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19T
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
278	17 41.20	43 45.00	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19U
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
279	17 41.20	43 45.00	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19V
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
280	17 41.20	43 45.00	593.0	53.0	RB-SR	METADACITE	DC	W			FLECK 5,24,742-19W
											METAVOLCANIC ROCKS OF WADI SHUKLALAH
281	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24C
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
282	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24D
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
283	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24E
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
284	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24F
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
285	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24G
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
286	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24H
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
287	19 15.00	42 9.00	912.0	76.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24I
											METAVOLCANIC ROCKS OF WADI BIN DWAYNAH
288	19 8.00	42 58.00	746.0	16.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24J
											KHADRAH FORMATION METAVOLCANIC ROCKS

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT, (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
289	19 8.00	42 58.00	746.0	16.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24K
											KHADRAH FORMATION METAVOLCANIC ROCKS
290	19 8.00	42 58.00	746.0	16.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24L
											KHADRAH FORMATION METAVOLCANIC ROCKS
291	19 8.00	42 58.00	746.0	16.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-24M
											KHADRAH FORMATION METAVOLCANIC ROCKS
292	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25M
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
293	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25N
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
294	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25P
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
295	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25Q
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
296	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25R
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
297	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25S
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
298	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25T
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
299	20 38.40	42 37.20	660.0	43.0	RB-SR	META-ANDESITE	AN	W			FLECK 5,25,742-25U
											METAVOLCANIC ROCKS OF HISHAT AL HAWI
300	21 4.00	43 53.60	761.0	23.0	RB-SR	RHYOL ASH-FLOW	RY	W			FLECK 5,26,742-27D
											ARPHAN FORMATION OF HADLEY (1976)
301	21 4.00	43 53.60	761.0	23.0	RB-SR	RHYOL ASH-FLOW	RY	W			FLECK 5,26,742-27E
											ARPHAN FORMATION OF HADLEY (1976)
302	21 4.00	43 53.60	761.0	23.0	RB-SR	RHYOL ASH-FLOW	RY	W			FLECK 5,26,742-27F
											ARPHAN FORMATION OF HADLEY (1976)
303	21 23.50	43 37.60	775.0	0.0	RB-SR	BASA. ANDESITE	BA	W			FLECK 5,26,742-27N
											ARPHAN FORMATION OF HADLEY (1976)
304	21 23.50	43 37.60	775.0	0.0	RB-SR	VOLC. ANDESITE	AN	W			FLECK 5,26,742-27P
											ARPHAN FORMATION OF HADLEY (1976)
305	21 23.50	43 37.60	775.0	0.0	RB-SR	BASA. ANDESITE	AN				FLECK 5,26,742-27Q
											ARPHAN FORMATION OF HADLEY (1976)
306	21 23.50	43 37.60	775.0	0.0	RB-SR	VOLC. ANDESITE	AN	W			FLECK 5,26,742-27R
											ARPHAN FORMATION OF HADLEY (1976)

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
307	21 23.50	43 37.60	775.0	0.0	RB-SR	VOLC. ANDESITE	AN	W			FLECK 5,26,742-27S
											ARPHAN FORMATION OF HADLEY (1976)
308	21 25.20	43 43.50	620.0	95.0	RB-SR	PYX. ANDESITE	AN	W			FLECK 5,26,742-27I
											JUQJUQ FORMATION OF HADLEY (1976)
309	21 25.20	43 43.50	620.0	95.0	RB-SR	PYX. ANDESITE	AN	W			FLECK 5,26,742-27J
											JUQJUQ FORMATION OF HADLEY (1976)
310	21 25.20	43 43.50	620.0	95.0	RB-SR	BASA.ANDESITEA	NW	W			FLECK 5,26,742-27K
											JUQJUQ FORMATION OF HADLEY (1976)
311	21 23.70	43 37.90	612.0	0.0	RB-SR	RHYOL ASH FLOW	RY	W			FLECK 5,26,742-27L
											RHYOLITE OF THE BI'R JUQJUQ QUADRANGLE
312	21 23.70	43 37.90	612.0	0.0	RB-SR	RHYOL ASH FLOW	RY	W			FLECK 5,26,742-27M
											RHYOLITE OF THE BI'R JUQJUQ QUADRANGLE
313	19 55.00	41 37.00	890.0	67.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,71-8-13H
											QTZ DIORITE OF BILJURSHI (SET A)
314	19 51.00	41 36.00	890.0	67.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,71-8-13I
											QTZ DIORITE OF BILJURSHI (SET A)
315	19 50.00	41 34.50	890.0	67.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,71-8-13J
											QTZ DIORITE OF BILJURSHI (SET A)
316	19 54.40	41 34.20	848.0	282.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-606
											QTZ DIORITE OF BILJURSHI (SET B)
317	19 51.30	41 34.60	848.0	82.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-625
											QTZ DIORITE OF BILJURSHI (SET B)
318	19 52.60	41 34.80	848.0	282.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-632
											QTZ DIORITE OF BILJURSHI (SET B)
319	20 30.90	40 8.50	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3B
											QTZ DIORITE OF WADI KHADRAH
320	20 30.90	40 8.50	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3C
											QTZ DIORITE OF WADI KHADRAH
321	20 30.90	40 8.50	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3D
											QTZ DIORITE OF WADI KHADRAH
322	20 29.50	40 20.60	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3E
											QTZ DIORITE OF WADI KHADRAH
323	20 29.50	40 20.60	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3F
											QTZ DIORITE OF WADI KHADRAH
324	20 29.50	40 20.60	895.0	173.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-3G
											QTZ DIORITE OF WADI KHADRAH

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
325	20 20.60	40 56.20	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-4G
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
326	20 20.60	40 56.20	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-4H
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
327	20 20.60	40 56.20	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-4I
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
328	20 20.60	40 56.20	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,743-4J
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
329	20 19.00	40 52.30	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-4K
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
330	20 19.00	40 52.30	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-4L
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
331	20 19.00	40 52.30	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-4M
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
332	20 19.00	40 52.30	853.0	72.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-4N
											QTZ DIORITE OF WADI ASH SHAQAH ASH SHAMIYAH
333	19 29.00	41 37.00	846.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,725-9A
											QTZ DIORITE OF WADI QANUNAH
334	19 23.60	41 35.30	846.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,725-9B
											QTZ DIORITE OF WADI QANUNAH
335	19 3.00	42 12.00	837.0	50.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-23F
											QTZ DIORITE OF AN NIMAS, AN NIMAS BATHOLITH
336	19 3.00	42 12.00	837.0	50.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-23G
											QTZ DIORITE OF AN NIMAS, AN NIMAS BATHOLITH
337	19 3.00	42 12.00	837.0	50.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-23H
											QTZ DIORITE OF AN NIMAS, AN NIMAS BATHOLITH
338	19 7.00	42 9.00	837.0	50.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-23I
											QTZ DIORITE OF AN NIMAS, AN NIMAS BATHOLITH
339	19 46.80	42 17.40	838.0	0.0	RB-SR	TRONDHJEMITE	TJ	W			FLECK 5,27,743-6A
											TRONDHJEMITE OF WADI ASHAK, AN NIMAS BATHOLITH
340	19 42.30	42 18.40	838.0	0.0	RB-SR	TRONDHJEMITE	TJ	W			FLECK 5,27,743-6B
											TRONDHJEMITE OF WADI ASHAK, AN NIMAS BATHOLITH
341	19 44.00	42 19.40	818.0	95.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-6C
											QTZ DIORITE OF WADI TARJ, AN NIMAS BATHOLITH
342	19 43.30	42 21.50	818.0	95.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-6E
											QTZ DIORITE OF WADI TARJ, AN NIMAS BATHOLITH

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
343	19 43.30	42 21.50	818.0	95.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-6F
											QTZ DIORITE OF WADI TARJ, AN NIMAS BATHOLITH
344	19 43.00	42 21.80	818.0	95.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,743-6G
											QTZ DIORITE OF WADI TARJ, AN NIMAS BATHOLITH
345	19 36.00	41 58.50	747.0	178.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-653
											QTZ DIORITE OF AL MUSHIRAH, AN NIMAS BATHOLITH
346	19 31.00	41 59.30	747.0	178.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-667
											QTZ DIORITE OF AL MUSHIRAH, AN NIMAS BATHOLITH
347	19 31.00	41 59.30	747.0	178.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-669
											QTZ DIORITE OF AL MUSHIRAH, AN NIMAS BATHOLITH
348	20 3.60	42 54.30	723.0	107.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,724-28N
											QTZ DIORITE OF JABAL UMM AL HASHIYAH
349	20 2.70	42 54.20	723.0	107.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,724-28P
											QTZ DIORITE OF JABAL UMM AL HASHIYAH
350	19 46.50	42 55.40	723.0	107.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,724-29H
											QTZ DIORITE OF JABAL UMM AL HASHIYAH
351	19 46.50	42 55.40	723.0	107.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,724-29I
											QTZ DIORITE OF JABAL UMM AL HASHIYAH
352	20 8.90	43 8.50	724.0	93.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26M
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
353	20 8.90	43 8.50	724.0	93.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26N
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
354	20 8.90	43 8.50	724.0	93.0	RB-SR	APLITE	QP	W			FLECK 5,26,742-26P
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
355	20 8.90	43 8.50	724.0	93.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26Q
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
356	20 8.90	43 8.50	724.0	93.0	RB-SR	APLITE	AP	W			FLECK 5,26,742-26R
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
357	20 5.60	43 4.00	724.0	93.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,742-26K
											QTZ DIORITE OF THE AL QARAH QUADRANGLE
358	21 16.50	43 59.40	522.0	429.0	RB-SR	HBL. DIORITE	DR	W			FLECK 5,26,742-28F
											HORNBLENDE DIORITE OF HADLEY (1976)
359	21 16.50	43 59.40	522.0	429.0	RB-SR	HBL. DIORITE	DR	W			FLECK 5,26,742-28G
											HORNBLENDE DIORITE OF HADLEY (1976)
360	21 16.50	43 59.40	522.0	429.0	RB-SR	HBL. DIORITE	DR	W			FLECK 5,26,742-28H
											HORNBLENDE DIORITE OF HADLEY (1976)

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
361	18 22.00	44 0.00	843.0	273.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-21F
											QTZ DIORITE OF WADI MAKHDHUL
362	18 22.00	44 0.00	843.0	273.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-21G
											QTZ DIORITE OF WADI MAKHDHUL
363	18 22.00	44 0.00	843.0	273.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-21H
											QTZ DIORITE OF WADI MAKHDHUL
364	18 24.30	43 45.60	720.0	0.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7B
											QTA DIORITE OF THE MALAHAH DOME
365	18 24.30	43 45.60	720.0	0.0	RB-SR	GRANODIORITE	GD	W		FLECK	5,27,7411-7C
											QTA DIORITE OF THE MALAHAH DOME
366	18 24.30	43 45.60	720.0	0.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7D
											QTA DIORITE OF THE MALAHAH DOME
367	18 23.00	44 4.00	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-20I
											GRANODIORITE OF WADI MALAHAH
368	18 23.00	44 4.00	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-20J
											GRANODIORITE OF WADI MALAHAH
369	18 23.00	44 4.00	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-20K
											GRANODIORITE OF WADI MALAHAH
370	18 23.00	44 4.00	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,25,742-20L
											GRANODIORITE OF WADI MALAHAH
371	18 21.70	43 59.50	684.0	43.0	RB-SR	GRANODIORITE	GD	W		FLECK	5,27,7411-7A
											GRANODIORITE OF WADI MALAHAH
372	18 24.30	43 45.60	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7B
											GRANODIORITE OF WADI MALAHAH
373	18 24.30	43 45.60	684.0	43.0	RB-SR	GRANODIORITE	GD	W		FLECK	5,27,7411-7C
											GRANODIORITE OF WADI MALAHAH
374	18 24.30	43 45.60	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7D
											GRANODIORITE OF WADI MALAHAH
375	18 23.30	43 46.80	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7E
											GRANODIORITE OF WADI MALAHAH
376	18 23.30	43 46.80	684.0	43.0	RB-SR	GRANODIORITE	GD	W		FLECK	5,27,7411-7F
											GRANODIORITE OF WADI MALAHAH
377	18 23.30	43 46.80	684.0	43.0	RB-SR	GRANODIORITE	GD	W		FLECK	5,27,7411-7G
											GRANODIORITE OF WADI MALAHAH
378	18 23.30	43 48.30	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W		FLECK	5,27,7411-7H
											GRANODIORITE OF WADI MALAHAH

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
379	18 21.90	43 42.30	684.0	43.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,27,7411-8A
											GRANODIORITE OF WADI MALAHAH
380	18 21.90	43 42.30	684.0	43.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,27,7411-8B
											GRANODIORITE OF WADI MALAHAH
381	18 28.30	43 44.80	684.0	43.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,27,7411-8C
											GRANODIORITE OF WADI MALAHAH
382	18 28.30	43 44.80	684.0	43.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,7411-8D
											GRANODIORITE OF WADI MALAHAH
383	18 5.00	44 5.00	815.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-21A
											QTZ DIORITE OF SIMLAH
384	18 5.00	44 5.00	815.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,25,742-21B
											QTZ DIORITE OF SIMLAH
385	19 1.00	42 13.00	746.0	114.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,25,742-22A
											GRANODIORITE GNEISS OF JABAL NINE, GD GNEISS DOMES
386	19 1.00	42 13.00	746.0	114.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,25,742-22B
											GRANODIORITE GNEISS OF JABAL NINA, GD GNEISS DOMES
387	19 1.00	42 13.00	746.0	114.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,25,742-22C
											GRANODIORITE GNEISS OF JABAL NINE, GD GNEISS DOMES
388	19 1.00	42 13.00	746.0	114.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,25,742-22D
											GRANODIORITE GNEISS OF JABAL NINA, GD GNEISS DOMES
389	19 1.00	42 13.00	746.0	114.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,25,742-22E
											GRANODIORITE GNEISS OF JABAL NINA, GD GNEISS DOMES
390	18 26.70	42 40.10	664.0	90.0	RB-SR	GRANITE	GR	W			FLECK 5,24,71-8-9D
											GRANITIC GNEISS OF WADH BISHAH, GD GNEISS DOMES
391	18 26.70	42 40.10	664.0	9.0	RB-SR	GRANITE	GR	W			FLECK 5,24,71-8-9E
											GRANITIC GNEISS OF WADI BASHAH, GD GNEISS DOMES
392	18 26.70	42 40.10	664.0	9.0	RB-SR	GRANITE	GR	W			FLECK 5,24,71-8-9F
											GRANITIC GNEISS OF WADI BASHAH, GD GNEISS DOMES
393	18 44.00	42 2.00	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-6Q
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES
394	18 57.90	42 2.70	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-7C
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES
395	18 58.50	42 3.40	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-7D
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES
396	18 49.00	42 1.20	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-7E
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
397	18 45.60	41 1.60	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-7F
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES
398	18 56.00	41 59.00	763.0	53.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,725-8N
											GRANODIORITE GNEISS, WADI BAGARAH, GD GNEISS DOMES
399	21 31.30	39 16.00	763.0	159.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,742-15A
											GRANITIC GNEISS OF JIDDAH AIRPORT, GD GNEISS DOMES
400	21 31.30	39 16.00	763.0	159.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,742-15B
											GRANITIC GNEISS OF JIDDAH AIRPORT, GD GNEISS DOMES
401	21 31.10	39 16.00	763.0	159.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,742-15C
											GRANITIC GNEISS OF JIDDAH AIRPORT, GD GNEISS DOMES
402	21 30.70	39 16.30	763.0	159.0	RB-SR	GRA DIO GNEISS	GD	W			FLECK 5,24,742-15D
											GRANITIC GNEISS OF JIDDAH AIRPORT, GD GNEISS DOMES
403	17 31.00	43 3.50	773.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,27,7411-9A
											GRANITIC GNEISS OF HARISI DOME, GD GNEISS DOMES
404	17 30.80	43 4.10	773.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,27,7411-9B
											GRANITIC GNEISS OF HARISI DOME, GD GNEISS DOMES
405	18 18.60	42 52.10	626.0	17.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-9A
											TINDAHAH BATHOLITH(COLEMAN),LATE-OR POST-OROGENIC
406	18 20.50	42 53.40	626.0	17.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-9B
											TINDAHAH BATHOLITH(COLEMAN),LATE-OR POST-OROGENIC
407	18 23.50	42 55.30	626.0	17.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-9C
											TINDAHAH BATHOLITH(COLEMAN),LATE-OR POST-OROGENIC
408	18 40.70	42 39.50	608.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-11K
											BANI THOUR PLUTON(COLEMAN), LATE- OR POST-OROGENIC
409	19 50.50	41 19.00	640.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-14A
											GRANITE OF JABAL SHADA, LATE- OR POST-OROGENIC
410	20 25.50	41 8.50	657.0	0.0	RB-SR	BI MUS GRANITE	GR	W			FLECK 5,24,71-8-14B
											GRANITE OF JABAL IBRAHIM, LATE- OR POST-OROGENIC
411	19 48.00	41 52.50	636.0	21.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-15A
											QTZ MONZONITE OF WADI SHUWAS,LATE-OR POST-OROGENIC
412	19 44.50	41 52.50	636.0	21.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-15C
											QTZ MONZONITE OF WADI SHUWAS,LATE-OR POST-OROGENIC
413	20 7.00	41 55.00	636.0	21.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-15D
											QTZ MONZONITE OF WADI SHUWAS,LATE-OR POST-OROGENIC
414	20 7.50	41 54.00	636.0	21.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,71-8-15E
											QTZ MONZONITE OF WADI SHUWAS,LATE-OR POST-OROGENIC

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
415	18 43.70	42 9.10	620.0	18.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,24,725-6M
											QTZ MONZONITE OF JABAL QAL, LATE- OR POST-OROGENIC
416	18 43.70	42 9.10	620.0	18.0	RB-SR	GRANITE	GR	W			FLECK 5,24,725-6N
											QTZ MONZONITE OF JABAL QAL, LATE- OR POST-OROGENIC
417	18 48.20	42 7.10	620.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,725-6P
											QTZ MONZONITE OF JABAL QAL, LATE- OR POST-OROGENIC
418	17 36.20	43 49.10	643.0	20.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,742-20A
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
419	17 36.20	43 49.10	643.0	20.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,742-20B
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
420	17 36.30	43 49.00	643.0	20.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,742-20C
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
421	17 36.30	43 49.00	643.0	20.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,24,742-20D
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
422	17 36.30	43 49.00	643.0	20.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,742-20E
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
423	17 36.30	43 49.00	643.0	20.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,742-20F
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
424	17 36.30	43 49.00	643.0	20.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,24,742-20G
											GRANODIORITE OF WADI HALAL, LATE- OR POST-OROGENIC
425	20 40.70	42 42.90	587.0	99.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,25,742-25J
											GRANODIORITE, WADI AL MIYAH,LATE- OR POST-OROGENIC
426	20 40.10	42 43.20	587.0	99.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,25,742-25K
											GRANODIORITE, WADI AL MIYAH,LATE- OR POST-OROGENIC
427	20 40.10	42 43.20	587.0	99.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,25,742-25L
											GRANODIORITE, WADI AL MIYAH,LATE- OR POST-OROGENIC
428	20 16.70	42 57.20	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26A
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
429	20 16.70	42 57.20	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26B
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
430	20 17.90	43 1.10	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26C
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
431	20 17.90	43 1.10	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26D
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
432	20 17.90	43 1.10	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26E
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
433	20 17.20	43 5.00	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26F
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
434	20 17.20	43 5.00	623.0	18.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,25,742-26G
											GRANODIORITE, WADI MUSAYRAH,LATE- OR POST-OROGENIC
435	20 8.90	43 8.50	621.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26M
											APLITE DIKE, SW QARA QUAD, LATE- OR POST-OROGENIC
436	20 8.90	43 8.50	621.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26N
											APLITE DIKE, SW QARA QUAD, LATE- OR POST-OROGENIC
437	20 8.90	43 8.50	621.0	0.0	RB-SR	APLITE	AP	W			FLECK 5,26,742-26P
											APLITE DIKE, SW QARA QUAD, LATE- OR POST-OROGENIC
438	20 8.90	43 8.50	621.0	0.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,26,742-26Q
											APLITE DIKE, SW QARA QUAD, LATE- OR POST-OROGENIC
439	20 8.90	43 8.50	621.0	0.0	RB-SR	APLITE	AP	W			FLECK 5,26,742-26R
											APLITE DIKE, SW QARA QUAD, LATE- OR POST-OROGENIC
440	21 14.20	43 56.90	620.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,26,742-28A
											GNEISSIC GD, BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN.
441	21 14.20	43 56.90	620.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,26,742-28B
											GNEISSIC GD, BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN.
442	21 14.20	43 56.90	620.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,26,742-28C
											GNEISSIC GD, BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN.
443	21 16.80	43 54.90	620.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,26,742-28D
											GNEISSIC GD, BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN.
444	21 16.80	43 54.90	620.0	0.0	RB-SR	GRANODIORITE	GD	W			FLECK 5,26,742-28E
											GNEISSIC GD, BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN.
445	21 28.10	43 58.60	636.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,26,742-28I
											QTZ MONZONITE,BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN
446	21 28.10	43 58.60	636.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,26,742-28J
											QTZ MONZONITE,BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN
447	21 28.10	43 58.60	636.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,26,742-28K
											QTZ MONZONITE,BI'R JUQJUQ QUAD,LATE-OR POST-OROGEN
448	21 19.50	43 50.60	635.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,26,742-28N
											QTZ MONZONITE, JABAL TARBAN, LATE-OR POST-OROGENIC
449	21 19.50	43 50.60	635.0	0.0	RB-SR	QTZ. MONZONITE	QM	W			FLECK 5,26,742-28P
											QTZ MONZONITE, JABAL TARBAN, LATE-OR POST-OROGENIC
450	20 47.30	43 41.60	666.0	8.0	U-TH-PB	HBL TON GNEISS	TO	Z			COOPER 6,18,11266?7,435,112662
											JABAL YAFIKH HORNBLENDE METATONALITE

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
451	20 5.90	42 47.60	678.0	10.0	U-TH-PB	RED GRANITE	GR	Z		COOPER	6,18,11267;7,435,112671
											BISHAH 'RED' GRANITE OF JUNAYNAH.
452	18 43.90	42 1.90	778.0	9.0	U-TH-PB	GRA DIO GNEISS	GD	Z		COOPER	6,18,11267;7,435,112672
											BAQARAH GRANODIORITE GNEISS
453	18 49.10	42 0.90	763.0	4.0	U-TH-PB	ADAMELLITE	AD	Z		COOPER	6,18,11267;7,435,112673
											BAQARAH LEUCO-ADAMELLITE GNEISS
454	18 56.20	41 59.40	797.0	15.0	U-TH-PB	BI TONA GNEISS	TO	Z		COOPER	6,18,11267;7,435,112674
											BAQARAH BIOTITE TONALITE GNEISS
455	17 41.70	43 3.30	663.0	9.0	U-TH-PB	TONA GNEISS	TO	Z		COOPER	6,18,11267;7,435,112679
											WADI ATF TONALITE GNEISS
456	18 15.90	43 18.50	660.0	7.0	U-TH-PB	ADAMELLITE	AD	Z		COOPER	6,18,11268;7,435,112680
											WADI TARIB ADAMELLITE
457	19 5.20	43 42.50	660.0	7.0	U-TH-PB	PEGMATITES	PG	Z		COOPER	6,18,11269;7,435,112693
											BIOTITE GRANODIORITE PEGMATITES
458	18 59.00	43 47.00	664.0	12.0	U-TH-PB	METAGABBRO	GB	Z		COOPER	6,18,11269;7,435,112695
											MARKAS METAGABBRO
459	18 6.70	43 19.60	714.0	28.0	U-TH-PB	GRA DIO GNEISS	GD	Z		COOPER	6,18,11269;7,435,112698
											WADI TARIB GNEISS DOME GRANODIORITE GNEISS
460	19 3.01	42 12.00	816.0	4.0	U-TH-PB	BI TONA GNEISS	TO	Z		COOPER	6,18,11270;7,435,112701
											AN NIMAS BIOTITE TONALITE GNEISS
461	25 34.00	40 41.00	493.0	0.0	K-AR	ANDESITE FLOW	AN	W	JIBALAH GROUP	BAUBRON	3,30,2540 B8 JCB 164
											BLACK ANDESITE FLOW, JIBALAH
462	25 34.00	40 41.00	502.0	0.0	K-AR	ANDESITE FLOW	AN	W	JIBALAH GROUP	BAUBRON	3,30,2540 B8 JCB 165
											BLACK ANDESITE FLOW, JIBALAH
463	25 49.00	40 49.00	566.0	0.0	K-AR	RED RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,30,2540 B5 JCB 158
											RED RHYOLITE, INTRUSIVE PLUG, NORTH BI'R TULULAH
464	25 49.00	40 49.00	571.0	0.0	K-AR	RED RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,30,2540 B5 JCB 159
											RED RHYOLITE, INTRUSIVE PLUG, NORTH BI'R TULULAH
465	25 51.00	40 57.00	537.0	0.0	K-AR	RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,34,2540 B3 JCB 134
											RHYOLITE, LOWER HORIZON, JABAL UMM AMSHAT
466	25 51.00	40 57.00	555.0	0.0	K-AR	RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,34,2540 B3 JCB 136
											RHYOLITE, MIDDLE HORIZON, JABAL UMM AMSHAT
467	25 51.00	40 57.00	549.0	0.0	K-AR	RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,34,2540 B3 JCB 137
											RHYOLITE, UPPER HORIZON, JABAL UMM AMSHAT
468	25 51.00	40 57.00	501.0	0.0	K-AR	RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON	3,34,2540 B3 JCB 138
											RHYOLITE, UPPER HORIZON, JABAL UMM AMSHAT

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										COMMENTS	
469	25 51.00	40 57.00	499.0	0.0	K-AR	RHYOLITE	RY	W	SHAMMAR GROUP	BAUBRON 3,34,2540	B3 JCB 139
										RHYOLITE, UPPER HORIZON, JABAL UMM AMSHAT	
470	25 47.00	41 31.00	533.0	0.0	K-AR	RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 96
										RHYOLITE WITH FERROMAGS, JABAL UMM SAMMAH	
471	25 47.00	41 31.00	536.0	0.0	K-AR	RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 98
										RHYOLITE WITH FERROMAGS, JABAL UMM SAMMAH	
472	25 47.00	41 32.00	637.0	0.0	K-AR	PORPH RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 99
										PORPHYRITIC RHYOLITE, JABAL UMM SAMMAH	
473	25 47.00	41 33.00	557.0	0.0	K-AR	PORPH RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 100
										PORPHYRITIC RHYOLITE, JABAL UMM SAMMAH	
474	25 47.00	41 33.00	559.0	0.0	K-AR	RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 101
										RHYOLITE, JABAL UMM SAMMAH	
475	25 47.00	41 33.00	584.0	0.0	K-AR	RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 102
										RHYOLITE, JABAL UMM SAMMAH	
476	25 47.00	41 33.00	538.0	0.0	K-AR	RHYOLITE	RY	W	MURDAMA GROUP	BAUBRON 3,34,2541	B4 JCB 103
										RHYOLITE, JABAL UMM SAMMAH	
477	25 36.00	41 24.00	564.0	0.0	K-AR	QZ.KERATOPHYRE	KR	W	NUQRAH FM	BAUBRON 3,34,2541	A9 JCB 76
										QTZ KERATOPHYRE, NEAR DRILLHOLE NU22	
478	25 36.00	41 24.00	507.0	0.0	K-AR	QZ.KERATOPHYRE	KR	W	NUQRAH FM	BAUBRON 3,34,2541	A9 JCB 78
										QTZ KERATOPHYRE, NEAR DRILLHOLE NU4(FLOW-STRUCTURE	
479	25 36.00	41 24.00	558.0	0.0	K-AR	QZ.KERATOPHYRE	KR	W	NUQRAH FM	BAUBRON 3,34,2541	A9 JCB 79
										QTZ KERATOPHYRE, HILL NW OF NUQRAH	
480	25 36.00	41 24.00	554.0	0.0	K-AR	QZ.KERATOPHYRE	KR	W	NUQRAH FM	BAUBRON 3,34,2541	A9 JCB 81
										QTZ KERATOPHYRE, HILL NW OF NUQRAH	
481	25 37.00	41 24.00	556.0	0.0	K-AR	QZ.KERATOPHYRE	KR	W	NUQRAH FM	BAUBRON 3,34,2541	A9 JCB 82
										QTZ KERATOPHYRE, NEAR DRILLHOLE NU1	
482	25 43.00	40 47.00	559.0	0.0	K-AR	ANDESITE	AN	W	AFNA FORMATION	BAUBRON 3,34,2540	B5 JCB 142
										ANDESITE BRECCIA, JABAL AT TIN-W. BI'R TULUHAH	
483	25 45.00	40 48.00	557.0	0.0	K-AR	DOLORITE	DL	W	AFNA FORMATION	BAUBRON 3,34,2540	B5 JCB 143
										DOLERITE IN VEIN, JABAL AT TIN-W. BI'R TULUHAH	
484	25 45.00	40 48.00	614.0	0.0	K-AR	C.G DACITE	DC	W	AFNA FORMATION	BAUBRON 3,34,2540	B5 JCB 144
										COARSE-GRAIN DACITE WITH PINK INCLUSIONS,J. AT TIN	
485	25 46.00	40 48.00	569.0	0.0	K-AR	F.G DACITE	DC	W	AFNA FORMATION	BAUBRON 3,34,2540	B5 JCB 145
										FINE-GRAINED DACITE, J. AT TIN, W. BI'R TULUHAH	
486	25 46.00	40 48.00	622.0	0.0	K-AR	F.G DACITE	DC	W	AFNA FORMATION	BAUBRON 3,34,2540	B5 JCB 146
										FINE-GRAIN DACITE W/MAFIC INCLUSIONS, J. AT TIN	

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SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
487	25 47.00	40 48.00	693.0	0.0	K-AR	F.G DACITE	DC	W	AFNA FORMATION	BAUBRON	3,34,2540 B5 JCB 147
										VERY FINE-GRAINED DACITE, JABAL AT TIN	
488	25 47.00	40 48.00	590.0	0.0	K-AR	DARK ANDESITE	AN	W	AFNA FORMATION	BAUBRON	3,34,2540 B5 JCB 148
										DARK ANDESITE, JABAL AT TIN, W. BI'R TULULAH	
489	25 48.00	40 50.00	578.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 150
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
490	25 48.00	40 50.00	641.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 151
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
491	25 48.00	40 50.00	501.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 152
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
492	25 48.00	40 50.00	526.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 153
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
493	25 48.00	40 50.00	499.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 155
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
494	25 49.00	40 50.00	483.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 157
										FOLIATED META-GB,OPHIOLITIC COMPLEX,BI'R TULUHAH	
495	25 42.00	40 49.00	570.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 161
										COMPACT META-GB, OPHIOLITIC COMPLEX,BI'R TULUHAH	
496	25 41.00	40 49.00	465.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 162
										COMPACT METAGABBRO, JABAL SAMRA TULUHAH	
497	25 40.00	40 48.00	640.0	0.0	K-AR	METAGABBRO	GB	W		BAUBRON	3,47,2540 B5 JCB 163
										JOINTED METAGABBRO, JABAL SAMRA TULUHAH	
498	23 50.00	40 56.00	534.0	0.0	K-AR	PORPH ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 169
										FLOW BENEATH MINERALIZATION, JABAL SAYID	
499	23 50.00	40 56.00	457.0	0.0	K-AR	PORPH ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 170
										FLOW BENEATH MINERALIZATION, JABAL SAYID	
500	23 50.00	40 56.00	472.0	0.0	K-AR	APHYR ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 171
										FLOW BENEATH MINERALIZATION, JABAL SAYID	
501	23 50.00	40 56.00	484.0	0.0	K-AR	PORPH ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 172
										FLOW BENEATH MINERALIZATION, JABAL SAYID	
502	23 50.00	40 56.00	472.0	0.0	K-AR	PORPH ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 174
										FLOW BENEATH MINERALIZATION, JABAL SAYID	
503	23 50.00	40 56.00	516.0	0.0	K-AR	GREEN ANDESITE	AN	W		BAUBRON	3,63,2340 B3 JCB 175
										FLOW OVERLYING THE CHERT BED, JABAL SAYID	
504	23 50.00	40 56.00	560.0	0.0	K-AR	BLACK PHYOLITE	RY	W		BAUBRON	3,63,2340 B3 JCB 178
										FLOW AT TOP OF CHERT, JABAL SAYID,HYROTHERMAL ALT.	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
505	23 50.00	40 56.00	558.0	0.0	K-AR	PORPH RHYOLITE	RY	W			BAUBRON 3,63,2340 B3 JCB 179 FLOW AT TOP OF CHERT, JABAL SAYID,HYROTHERMAL ALT.
506	23 50.00	40 56.00	568.0	0.0	K-AR	F.G RHYOLITE	RY	W			BAUBRON 3,63,2340 B3 JCB 180 FLOW AT TOP OF CHERT, JABAL SAYID,HYROTHERMAL ALT.
507	25 5.00	41 12.00	570.0	8.0	RB-SR	PERALK GRANITE	PA	W			BAUBRON 3,55,JCB105-JCB112 PERALKALIC GRANITE,JABAL BIDAYAH(POST-SHAMMAR)
508	25 41.00	41 34.00	557.0	15.0	RB-SR	PERALK GRANITE	PA	W			BAUBRON 3,54,JCB85-JCB95 CALC-ALKALIC GRANITE,JABAL AR RAHADAH(POST MURDAMA
509	25 30.00	41 0.00	600.0	24.0	RB-SR	PERALK GRANITE	PA	W			BAUBRON 3,60,JCB120-JCB127 PERALKALIC GRANITE,JABAL AT TUWALAH
510	23 38.80	43 8.30	518.0	0.0	K-AR	SERIC RHYOLITE	RY	W			BAUBRON 3,79,YV 93 RHYOLITE AT TOP OF JABAL AL MURDAMA(POST-MURDAMA)
511	23 38.80	43 8.30	586.0	0.0	K-AR	SERIC RHYOLITE	RY	W			BAUBRON 3,79,YV 94 PIEMONTITE RHYOLITE,J.AL MURDAMA (POST-MURDAMA)
512	23 38.80	43 8.67	502.0	0.0	K-AR	SERIC RHYOLITE	RY	W			BAUBRON 3,79,YV 95 RHYOLITE AT TOP OF J.AL MURDAMA (POST-MURDAMA)
513	23 37.07	43 8.03	489.0	0.0	K-AR	SERIC RHYOLITE	RY	W			BAUBRON 3,79,YV 101 RHYOLITE AT TOP OF J.AL MURDAMA (POST-MURDAMA)
514	23 36.52	43 8.90	506.0	0.0	K-AR	SERIC RHYOLITE	RY	W			BAUBRON 3,79,YV 103 PIEMONTITE RHYOLITE,JABAL AL MURDAMA(POST-MURDAMA)
515	23 42.87	45 5.00	441.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV 61 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
516	23 42.87	45 5.00	475.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV63 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
517	23 42.47	45 5.10	540.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV 65 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
518	23 42.33	45 5.33	1264.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV 68 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
519	23 42.20	45 5.40	134.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV 69 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
520	23 42.60	45 5.20	458.0	0.0	K-AR	RHYODACITE	RD	W			BAUBRON 3,79,YV 72 CHLORITE RHYODACITE AT UMM ASH SHALAHIB
521	24 28.80	44 39.40	741.0	0.0	K-AR	AMPHIBOLITE	AM	W			BAUBRON 3,89,YV 13 OPHIOLITIC COMPLEX AT AR RIDANIYAH
522	24 28.70	44 39.40	186.0	0.0	K-AR	CHLORITITE	GC	W			BAUBRON 3,89,YV 14 OPHIOLITIC COMPLEX AT AR RIDANIYAH

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											COMMENTS
523	24 28.50	44 39.60	465.0	0.0	K-AR	F.G.METAGABBRO	GB	W			BAUBRON 3,89,YV 15
											OPHIOLITIC COMPLEX AT AR RIDANIYAH
524	24 28.50	44 39.60	469.0	0.0	K-AR	METAGABBRO	GB	W			BAUBRON 3,89,YV 16
											OPHIOLITIC COMPLEX AT AR RIDANIYAH
525	24 28.67	44 39.57	474.0	0.0	K-AR	F.G.METAGABBRO	GB	W			BAUBRON 3,89,YV 17
											OPHIOLITIC COMPLEX AT AR RIDANIYAH
526	24 28.67	44 30.57	413.0	0.0	K-AR	METAGABBRO	GB	W			BAUBRON 3,89,YV 18
											OPHIOLITIC COMPLEX AT AR RIDANIYAH, WITH ZOISITE
527	23 43.90	41 58.50	1521.0	0.0	K-AR	GABBRO	GB	W			BAUBRON 3,94,YV 104
											JABAL RHARABAH
528	23 43.70	41 57.20	712.0	0.0	K-AR	GABBRO	GB	W			BAUBRON 3,94,YV 106
											JABAL RHARABAH, GABBRO WITH HERCYNITE
529	23 42.80	41 56.75	527.0	0.0	K-AR	GABBRO	GB	W			BAUBRON 3,94,YV 108
											JABAL RHARABAH, GABBRO WITH EPIDOTE
530	23 44.47	41 56.30	995.0	0.0	K-AR	GABBRO	GB	W			BAUBRON 3,94,YV 113
											JABAL RHARABAH, GABBRO WITH DIALLAGE AND URALITE
531	23 44.60	41 56.35	812.0	0.0	K-AR	GABBRO	GB	W			BAUBRON 3,94,YV 114
											JABAL RHARABAH, GABBRO WITH URALITE
532	23 8.40	43 52.00	552.0	6.0	RB-SR	GRANITE	GR	W			BAUBRON 3,104,YV 73 - YV 79
											CALC-ALKALIC GRANITE OF JABAL KHANZIR
533	23 25.50	43 4.80	600.0	13.0	RB-SR	GRANITE	GR	W			BAUBRON 3,107,YV 85 - YV 92
											YANUFI GRANITE WEST OF JABAL KHANZIR
534	23 12.50	42 0.70	638.0	26.0	RB-SR	MUSC GRANITE	GR	W			BAUBRON 3,110,YV 140 - YV 148
											SABKHAR AL KHAL GRANITE
535	23 45.07	45 1.70	525.0	0.0	RB-SR	SCHIST	SC	W			BAUBRON 3,117,YV 46 - YV 50
536	24 28.70	44 39.00	645.0	35.0	RB-SR	GNEISS	GN	W			BAUBRON 3,120,YV 20 - YV 30
											ARRIDANIYAH SECTOR
537	23 2.50	42 8.90	825.0	53.0	RB-SR	GNEISS	GN	W			BAUBRON 3,124,YV 129 - YV 139
											JABAL AL ABLAN SECTOR
538	23 44.70	42 49.70	680.0	0.0	RB-SR	GNEISS	GN	W			BAUBRON 3,126,YV 150 - YV 157
											WADI ASH SHUBRUM
539	24 23.08	37 48.75	605.0	0.0	K-AR	ANORTHOSITE	AT	W			BAUBRON 3,133,JCB 1
											WADI MAHKZUM (QUARRY)
540	24 23.33	37 50.30	457.0	0.0	K-AR	ANORTHOSITE	AT	W			BAUBRON 3,133,JCB 4
											WADI MAHKZUM (QUARRY)

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											COMMENTS
541	24 23.60	37 50.63	419.0	0.0	K-AR	ANORTHOSITE	AT				BAUBRON 3,132,JCB 6
											EAST WADI MAHKZUM
542	24 23.43	37 50.95	883.0	0.0	K-AR	GABBRO	GB				BAUBRON 3,132,JCB 7
											WADI AL MAHALLAH,LEUCOCRATIC,BORDERING ANORTHOSITE
543	24 22.67	37 48.93	551.0	0.0	K-AR	ANORTHOSITE	AT				BAUBRON 3,132,JCB 8
											NEAR JABAL ASH SHIYARAH
544	24 19.87	37 46.53	565.0	0.0	K-AR	PYROXENITE	PY				BAUBRON 3,132,JCB 25
											ADI MAHKZUM(QUARRY), 2.5M DEPTH IN DRILL HOLE
545	24 20.77	37 48.50	561.0	0.0	K-AR	AMPHIBOLITE	AM				BAUBRON 3,132,JCB 59
											WADI AL BAYADAH
546	24 20.87	37 47.67	565.0	0.0	K-AR	AMPHIBOLITE	AM				BAUBRON 3,132,JCB 66
											WADI AL BAYADAH
547	24 19.50	37 50.08	326.0	0.0	K-AR	AMPHIBOLITE	AM				BAUBRON 3,132,JCB 69
											WADI AL BAYADAH
548	24 19.88	37 47.25	687.0	0.0	K-AR	GABBRO	GB				BAUBRON 3,132,JCB 72
											WADI ASH SHIYARAH
549	24 19.38	37 46.55	750.0	0.0	K-AR	GABBRO	GB				BAUBRON 3,132,JCB 73
											WADI ASH SHIYARAH
550	24 22.25	37 48.67	477.0	0.0	K-AR	GABBRO	GB				BAUBRON 3,132,JCB 75
											WADI AL MAHALLAH (COARSE-GRAINED, WITH QUARTZ)
551	19 33.00	41 57.60	747.0	178.0	RB-SR	QUARTZ DIORITE	QD	W			FLECK 5,27,J-659
											QTZ.DIORITE OF AL MUSHIRAH,AN NIMAS BATHOLITH
552	19 2.00	43 30.00	576.0	0.0	PB-ALPH	PEGMATITE	PG	A		T.STERN	PRELIM.,UNPUBL,56/01,
											GP GRANITE ; G.F.BROWN 56
553	23 47.70	44 48.40	640.0	70.0	PB-ALPH	GRANITE	GR	Z		T.STERN	PRELIM.,UNPUBL,59/01, 14
											J.ZA ABAH,BIOTITE-PERTHITE GRAN;G.F.BROWN 020756
554	22 36.30	44 54.00	705.0	80.0	PB-ALPH	GRANITE	GR	Z		T.STERN	PRELIM.,UNPUBL,59/02, 17
											PORPHYRITIC ; G.F.BROWN 020956
555	23 42.00	45 12.50	750.0	0.0	RB-SR	RHYOLITE	RY	W		R.REESMAN	PRELIM.,UNPUBL,65/01, 7060
											DIKE ; W.OVERSTREET031564
556	23 36.00	45 19.50	407.0	0.0	RB-SR	GRANITE	GR			R.REESMAN	PRELIM.,UNPUBL,65/02, 7060
											GG GRANITE ; W.OVERSTREET031664
557	23 14.00	45 20.50	1.2	0.0	RB-SR	RHYOLITE	RY	W		R.REESMAN	PRELIM.,UNPUBL,65/03, 7219
											DIKE ; W.OVERSTREET033164
558	23 13.00	45 25.00	592.0	0.0	RB-SR	RHYOLITE	RY	W		R.REESMAN	PRELIM.,UNPUBL,65/04, 7202
											DIKE ; W.OVERSTREET032864

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											COMMENTS
559	22 17.50	45 4.00	743.0	0.0	RB-SR	GRANITE	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/05, 7433 ; W.OVERSTREET052164
560	22 13.50	45 2.00	442.0	0.0	RB-SR	GRANITE	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/06, 7440 ; W.OVERSTREET052264
561	22 13.50	45 17.00	447.0	0.0	RB-SR	GRANITE	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/07, 7466 ; W.OVERSTREET052464
										GRANITE INTRUSIVE	
562	22 11.00	45 6.00	395.0	0.0	RB-SR	RHYOLITE PORPH	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/08, 7446B ; W.OVERSTREET052364
563	21 53.00	45 1.00	466.0	0.0	RB-SR	GRANITE	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/09, 7509 ; W.OVERSTREET053164
										GRANITE	
564	22 11.00	45 6.00	565.0	0.0	RB-SR	GRANITE PORPHY	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/10, 7446A ; W.OVERSTREET052364
565	22 27.00	45 3.00	879.0	0.0	RB-SR	ANDESITE PORPH	AN	W		R.REESMAN	PRELIM.,UNPUBL,65/11, 7418 ; W.OVERSTREET052064
										HALABAN	
566	26 49.00	37 15.00	553.0	0.0	RB-SR	GRANITE	GR	W		R.REESMAN	PRELIM.,UNPUBL,65/12, 10398 ; R.JOHNSON 03 65
567	23 35.00	40 55.00	696.0	0.0	RB-SR	RHYOLITE ?	RY	W		LANPHERE	PRELIM.,UNPUBL,66/03, 10B-1100 ; R.GOLDSMITH 66
										PLUG	
568	18 4.00	43 12.00	18.8	0.0	RB-SR	SYENITE	SY			REESMAN	PRELIM.,UNPUBL,66/04, 7877A ; W.OVERSTREET092665
569	23 17.86	44 35.62	556.0	23.0	RB-SR	BIOT. GRANITE	GR	W		DELFOUR	15,20
										ISOCHRON AGE,6 SAMPLES,J.SABHAH	
570	18 4.00	43 12.00	18.8	0.0	RB-SR	SYENITE	SY			REESMAN	PRELIM.,UNPUBL,66/06, 7877B ; W.OVERSTREET092665
571	23 35.69	44 42.76	518.0	12.0	RB-SR	BIOT. GRANITE	GR	W		DELFOUR	15,20
										ISOCHRON AGE,5 SAMPLES,J.KHURS	
572	17 26.70	42 32.20	21.3	1.1	K-AR	DIORITE	DR	P		GEOCHRON	8,82,103B;67/08
										W.BAISH DIORITE	; G.F.BROWN 120365
573	23 47.09	44 36.31	571.0	22.0	RB-SR	MICROGRANITE	GR	W		DELFOUR	15,17
										ISOCHRON AGE,5 SAMPLES,J.ARWAH RING DIKE	
574	21 34.40	39 32.00	32.0	2.0	K-AR	BASALT	BA	W	SHUMAYSE	GEOCHRON	PRELIM.,UNPUBL,68/01, A-1-4
									SHUMAYSE		; A.SHANTI 67
575	21 24.00	39 39.00	25.0	3.0	K-AR	BASALT	BA	W	SHUMAYSE	GEOCHRON	PRELIM.,UNPUBL,68/02, A-2-3
									SHUMAYSE		; A.SHANTI 67
576	23 47.26	44 47.02	560.0	0.0	RB-SR	BIOT. GRANITE	GR	B		DELFOUR	15,MAP
										NEAR J.ZA ABAH	

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										COMMENTS	
577	20 54.00	39 38.50	20.6	2.1	K-AR	ANDESITE	AN	W		GEOCHRON	8,82,66;68/10
									RIFT HYPABYSSAL INTRUSIVE	; D.GASKIL	66
578	25 41.50	39 15.00	9.1	0.7	K-AR	BASALT	BA	W		GEOCHRON	8,82,3729;68/21
									HARRAT KHAYBAR	; G.F.BROWN	050267
579	20 44.00	39 41.00	2.9	0.2	K-AR	BASALT	BA	W		ISOTOPES	8,82,5MX68;68/23
									HARRAT SHAMA	; R.MOXHAM	68
580	21 58.00	39 20.00	42.8	1.0	K-AR	GLAUCONIT.GRIT	G			ISOTOPES	8,82,A GLCNT;69/01
									USFAN	; G.F.BROWN	111667
581	21 58.00	39 20.00	55.2	1.2	K-AR	GLAUCONIT.GRIT	G			ISOTOPES	8,82,B GLNCNT;69/02
									USFAN	; G.F.BROWN	111667
582	20 57.00	39 35.00	6.8	4.3	K-AR	BASALT	BA	W		ISOTOPES	8,82,6MX68;69/04
										; R.MOXHAM	68
583	19 14.00	41 21.00	18.7	0.6	K-AR	BASALT	BA	W		ISOTOPES	8,82,QUNUNA;69/05
										; G.F.BROWN	042167
584	22 14.00	39 27.00	4.3	0.4	K-AR	BASALT	BA	W		ISOTOPES	PRELIM.,UNPUBL,69/06, GFB1BSLT
									HARRAT KHULAYS	; G.F.BROWN	010267
585	21 58.00	39 18.00	18.7	0.6	K-AR	BASALT	BA	W		ISOTOPES	PRELIM.,UNPUBL,69/07, GFB2BSLT
									USFAN,HARRAT	; G.F.BROWN	010267
586	21 56.00	39 15.00	4.0	0.8	K-AR	BASALT	BA	W		ISOTOPES	PRELIM.,UNPUBL,69/08, GFB3BSLT
									HARRAT AL KURA	; G.F.BROWN	010267
587	23 53.00	45 6.00	576.0	12.0	K-AR	GRANITE	GR	B		ISOTOPES	PRELIM.,UNPUBL,69/09, 410
									GRAY BIOTITE GRANITE	; G.F.BROWN	120667
588	18 12.50	42 31.00	510.0	52.0	FISSION	DIORITE	DR	S		C.NASER	PRELIM.,UNPUBL,69/25, 506A
										; G.F.BROWN	112968
589	16 58.00	42 57.00	23.0	2.0	K-AR	CPX GABBRO	GB	W		ISOTOPES	9,D149,514-5;69/29
									JABAL TIRF COMPLEX	; R.G.COLEMAN	110168
590	16 58.00	42 57.00	20.6	0.6	K-AR	GRANOPHYRE	GH	W		ISOTOPES	9,D149,515A;69/30
									JABAL TIRF COMPLEX	; G.F.BROWN	110168
591	16 58.00	42 57.00	23.3	1.0	K-AR	GRANOPHYRE	GH	W		ISOTOPES	9,D149,515B;69/31
									JABAL TIRF COMPLEX	; G.F.BROWN	110168
592	17 0.00	42 57.00	20.0	2.0	K-AR	CPX-OL GABBRO	GB	W		GEOCHRON	9,D149,516C;69/32
									JABAL TIRF GABBRO	; G.F.BROWN	110168
593	17 0.00	42 57.00	24.3	1.0	K-AR	HORNFELS	HF	W		ISOTOPES	9,D149,517C;69/33
									JABAL TIRF COMPLEX	; G.F.BROWN	110168
594	17 57.00	43 12.00	29.4	1.0	K-AR	BASALT	BA	W		ISOTOPES	8,82,518;69/34
									AS SIRAT FLOOD BASALT	; G.F.BROWN	110168

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
595	18 9.00	43 9.00	24.7	0.5	K-AR	BASALT	BA	W		ISOTOPES	8,82,520;69/35
									AS SIRAT FLOOD BASALT	; G.F.BROWN	110168
596	24 30.00	38 35.00	684.0	0.0	RB-SR	RHYOLITE?	RY		ABATHIR FM.	BAUBRON	16,4
									PRELIM.DATE,LOCATION	V.APPROX.,AL AYS GROUP	
597	20 49.00	42 17.00	1.7	1.2	K-AR	BASALT	BA	W		ISOTOPES	PRELIM.,UNPUBL,69/43, 601
									HARRAT NAWASIF	; G.F.BROWN	111868
598	24 25.00	37 47.00	634.0	15.0	RB-SR	GRANITE?	GR			BAUBRON	16,4
									PRELIM.DATE,LOCATION	V.APPROX.,W.KAMAL COMPLEX	
599	20 26.50	40 13.00	175.0	12.0	K-AR	GABBRO	GB	W		MARVIN	PRELIM.,UNPUBL,69/54, 623A
									DIKE,CHILLED EDGE	; G.F.BROWN	120368
600	30 50.00	38 5.00	11.7	0.4	K-AR	BASALT	BA	W		GEOCHRON	8,82,4700;69/57
									AL HARRA	; V.FLANIGAN	081168
601	30 53.00	38 8.00	11.2	0.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,69/58, 4701
									AL HARRA	; V.FLANIGAN	081168
602	30 53.00	38 9.00	13.1	0.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,69/59, 4702
									AL HARRA	; V.FLANIGAN	081168
603	30 54.00	38 11.00	11.7	0.4	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,69/60, 4703
									AL HARRA	; V.FLANIGAN	081168
604	30 54.00	38 12.00	12.6	0.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,69/61, 4704
									AL HARRA	; V.FLANIGAN	081168
605	21 49.00	39 41.50	25.1	5.0	K-AR	BASALT	BA	W		ISOTOPES	PRELIM.,UNPUBL,70/03, 902
									HARRAT HADDA ESH SHAM	; G.F.BROWN	103169
606	23 4.50	39 42.00	12.5	2.5	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/04, 905
									HARRAT RAHAT	; G.F.BROWN	103169
607	24 36.50	40 12.50	19.4	2.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/05, 908
									HARRAT KURAMA	; G.F.BROWN	103169
608	24 40.00	39 20.00	60.9	4.3	K-AR	OLIVINE BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/06, 909
									HARRA	; G.F.BROWN	110169
609	24 50.00	38 53.00	27.3	2.9	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/07, 910
									BASE OF SERIES FLOWS	; G.F.BROWN	69
610	24 51.00	38 45.50	20.4	2.1	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/08, 911
									LAVA FLOW	; G.F.BROWN	113169
611	25 31.00	38 53.00	11.3	2.3	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/09, 912
									BASE OF SERIES FLOWS	; G.F.BROWN	69
612	26 3.00	38 41.00	7.4	0.8	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/10, 913
									LAVA FLOW	; G.F.BROWN	110169

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
613	26 33.00	37 44.00	7.5	1.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/11, 915
									HARRAT		; G.F.BROWN 110169
614	26 32.00	37 44.00	9.1	1.0	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/12, 915
									HARRAT		; G.F.BROWN 110169
615	27 4.00	37 17.00	7.4	1.5	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/13, 916
									HARRAT UWAYRID		; G.F.BROWN 110169
616	26 59.00	37 13.00	25.8	2.6	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/14, 916
									HARRAT UWAYRID		; G.F.BROWN 110169
617	27 28.00	36 39.00	10.6	1.1	K-AR	BASALT	BA	W		GEOCHRON	PRELIM.,UNPUBL,70/15, 917
									HARRAT AR RAHA		; G.F.BROWN 110169
618	16 59.80	42 54.55	0.9	0.2	K-AR	ALK.OL.BASALT	BA	W		FLECK	10,D22,JT-8
									WADI JIZAN		
619	17 0.95	42 53.70	0.0	0.0	K-AR	ALK.OL.BASALT	BA	W		FLECK	10,D22,JT-9
									WADI JIZAN,AGE RECENT		
620	17 11.40	42 43.15	0.3	0.3	K-AR	ALK.OL.BASALT	BA	W		FLECK	10,D22,JT-26
									J.AKHWAH		
621	16 53.70	42 55.60	0.5	0.1	K-AR	HAWAIITE	BA	W		FLECK	10,D22,JT-35
									J.UM AL QUMAM		
622	19 42.20	41 0.90	18.4	3.1	K-AR	BASALT	BA	W	BAID FM	FLECK	11,25,743-4P
									INTERLAYERED BASALT IN BAID		
623	19 32.00	41 10.70	19.4	1.1	K-AR	BASALT	BA	W	BAID FM	FLECK	11,25,743-4S
									INTERLAYERED BASALT IN BAID		
624	19 32.00	41 10.70	19.7	1.0	K-AR	BASALT	BA	W	BAID FM	FLECK	11,25,743-4T
									INTERLAYERED BASALT IN BAID		
625	21 18.60	39 40.60	20.1	0.7	K-AR	BASALT	BA	W	SHUMAYSI FM	FLECK	11,25,93770
									INTERLAYERED BASALT IN SHUMAYSI		
626	22 47.00	39 46.00	13.0	1.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,904
									FLOW,HARRAT RAHAT		
627	25 1.50	40 16.00	1.0	1.0	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,907
									FLOW,HARRAT KHAYBAR		
628	23 3.00	39 9.00	0.4	0.0	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,923
									FLOW,NEAR J.ATWAL		
629	20 56.00	39 31.00	18.7	0.9	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,926
									DIKE?,J.ABU SHIDA		
630	20 59.00	39 38.00	26.0	4.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,927A
									DIKE?,J.SITA		

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											COMMENTS
631	20 59.00	39 38.00	27.2	5.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,927B
											DIKE?,J.SITA
632	20 24.00	40 21.50	17.5	3.0	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,928A
											DIKE,W.AL FAQH
633	20 24.00	40 21.50	24.6	1.8	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,928B
											DIKE,W.AL FAQH
634	20 24.00	40 21.50	22.7	1.3	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,928C
											DIKE,W.AL FAQH
635	20 24.00	40 21.50	20.2	1.2	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,928D
											DIKE,W.AL FAQH
636	18 46.00	41 33.00	21.7	1.4	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,930
											DIKE,W.HALI
637	18 46.00	41 33.00	12.0	1.2	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,931
											FLOW,W.HALI
638	18 28.50	41 32.00	2.0	1.0	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,932A
											BOTTOM FLOW,W.AMQ
639	18 28.50	41 32.00	2.4	1.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,932B
											TOP FLOW,W.AMQ
640	18 35.00	41 39.00	41.8	3.0	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,933A
											DIKE,NEAR W.SHAFQAH
641	18 35.00	41 39.00	40.7	2.8	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,933B
											DIKE,NEAR W.SHAFQAH
642	18 35.00	41 39.00	33.7	2.8	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,933C
											DIKE,NEAR W.SHAFQAH
643	18 7.20	41 34.50	12.0	3.0	K-AR?	BASALT?	BA	W		BROWN	PRELIM.,UNPUBL.,934
											MATERIAL UNKNOWN
644	18 8.00	41 40.00	18.7	1.1	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,935
											DIKE,W.DAHABAN
645	18 4.00	41 46.00	22.4	1.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,936
											DIKE,J.QURAYN
646	18 4.00	41 46.00	4.1	0.6	K-AR	BASAL	BA	W		BROWN	PRELIM.,UNPUBL.,937
											BASAL FLOW,J.QURAYN
647	18 6.00	41 44.00	11.8	1.5	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,938A
											OLDER FLOW,NEAR W.NAJLA
648	18 1.00	41 53.50	24.4	1.7	K-AR	BASALT	BA	W		BROWN	PRELIM.,UNPUBL.,939
											DIKE,J.UMM AS SAWDAH

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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											COMMENTS
649	18 0.00	42 5.00	5.0	1.5	K-AR	BASALT	BA	W		BROWN PRELIM.	,UNPUBL.,940
										CONE FLOW,J.LABABA	
650	18 30.00	42 1.00	5.0	1.5	K-AR	BASALT	BA	W		BROWN PRELIM.	,UNPUBL.,941
										CONE FLOW,J.HAYLAH	
651	22 11.00	44 3.00	599.0	43.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1103
										DAHUL SUITE	
652	22 11.00	44 3.00	599.0	43.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1104
										DAHUL SUITE	
653	22 11.00	44 3.00	599.0	43.0	RB-SR	GRANITE	GR	W		KRONER	12,458,GT1106
										DAHUL SUITE,MIGMATITE	
654	22 11.00	44 3.00	599.0	43.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1107
										DAHUL SUITE	
655	22 11.00	44 3.00	599.0	43.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1108
										DAHUL SUITE	
656	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1094
										JUQJUQ SUITE,MYLONITIC	
657	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1096
										JUQJUQ SUITE,MYLONITIC	
658	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1097
										JUQJUQ SUITE,MYLONITIC	
659	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1098
										JUQJUQ SUITE,MORE MAFIC THAN REST OF SUITE,MYLONIT	
660	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1099
										JUQJUQ SUITE,MYLONITIC	
661	21 3.00	43 40.00	782.0	26.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1101
										JUQJUQ SUITE,MYLONITIC	
662	21 3.00	43 40.00	643.0	0.0	RB-SR	GRANITE GNEISS	GN	W		KRONER	12,458,GT1102
										JUQJUQ SUITE,MAXIMUM MODEL AGE,V.PERTHITIC,MYLONIT	
663	18 15.90	43 18.50	610.0	0.0	COM PB	GRANODIORITE	GD	F		STACEY	13,7,112680
										ISOCHRON MODEL AGE,WADI TARIB	
664	18 19.30	43 43.40	615.0	0.0	COM PB	TONALITE	TO	F		STACEY	13,7,111541
										ISOCHRON MODEL AGE,AL AR	
665	20 5.90	42 47.60	385.0	0.0	COM PB	GRANITE	GR	F		STACEY	13,7,112671
										ISOCHRON MODEL AGE,BISHAH RED GRANITE	
666	27 40.50	41 37.00	540.0	0.0	COM PB	GRANITE	GR	G		STACEY	13,7,112991
										ISOCHRON MODEL AGE,JABAL AJAH PERALKALINE	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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										COMMENTS	
667	27 40.50	41 37.00	500.0	0.0	COM PB		G			STACEY	13,8,128590
										ISOCHRON MODEL AGE,JABAL AJAH	
668	26 17.50	39 8.50	490.0	0.0	COM PB		G			STACEY	13,8
										ISOCHRON MODEL AGE,MUHAYLOT	
669	25 43.00	38 36.00	490.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,8,74878
										ISOCHRON MODEL AGE,TUWAYRAH,QTZ,VEIN IN LYRD.GABBR	
670	25 38.50	41 26.50	680.0	0.0	COM PB		G			STACEY	13,8
										ISOCHRON MODEL AGE,NUQRAH,MSV.SULPHIDES IN HALABAN	
671	23 31.00	41 10.00	470.0	0.0	COM PB		G			STACEY	13,8
										ISOCHRON MODEL AGE,JABAL HADB	
672	23 30.00	40 52.00	685.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,8,87520
										ISOCHRON MODEL AGE,MAHD ADH DHAHAB,IN PYROCLASTICS	
673	23 30.00	40 52.00	685.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,8,87223
										ISOCHRON MODEL AGE,MAHD ADH DHAHAB,IN PYROCLASTICS	
674	23 30.00	40 52.00	685.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,8,DDB-11
										ISOCHRON MODEL AGE,MAHD ADH DHAHAB,IN PYROCLASTICS	
675	23 30.00	40 52.00	685.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,8,69115
										ISOCHRON MODEL AGE,MAHD ADH DHAHAB,IN PYROCLASTICS	
676	23 30.00	40 52.00	685.0	0.0	COM PB	QUARTZ VEIN	F			STACEY	13,8,64026
										ISOCHRON MODEL AGE,MAHD ADH DHAHAB,IN PYROCLASTICS	
677	22 55.00	40 51.00	720.0	0.0	COM PB		G			STACEY	13,8,107510(NBS)MS-ORE
										ISOCHRON MODEL AGE,J.SAYID,MASSIVE ZN-FE SULPHIDES	
678	21 12.50	40 18.00	540.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,9,5731
										ISOCHRON MODEL AGE,TAIF,QUARTZ VEIN	
679	20 57.00	40 26.10	610.0	0.0	COM PB		G			STACEY	13,9
										ISOCHRON MODEL AGE,PROSPECT,NO DATA AVAILABLE	
680	21 4.00	41 19.00	575.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,9,64132
										ISOCHRON MODEL AGE,MAMILAH,QTZ VEIN CUTTING BAHAH	
681	20 15.00	42 32.30	460.0	0.0	COM PB		G			STACEY	13,9,64115
										ISOCHRON MODEL AGE,JABAL DALFA	
682	21 5.00	43 14.00	560.0	0.0	COM PB		G			STACEY	13,9,64117
										ISOCHRON MODEL AGE,GARB HADAB,VEIN IN HALABAN	
683	20 20.00	41 15.00	650.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,9,64683
										ISOCHRON MODEL AGE,MULHAL,QTZ.VEIN IN BAISH	
684	20 12.00	43 28.00	480.0	0.0	COM PB	QUARTZ VEIN	G			STACEY	13,9,64112
										ISOCHRON MODEL AGE,MOKHAYAT,QTZ.VEIN IN HALABAN	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
685	20 0.00	41 58.00	695.0	0.0	COM PB			G		STACEY	13,9,70050 MS-ORE
										ISOCHRON MODEL AGE,WADI SHWAS,MSV.SULPH.IN HALABAN	
686	19 55.60	41 48.50	420.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,9,DDB-4
										ISOCHRON MODEL AGE,ABU BIR,AU QUARTZ VEIN	
687	19 10.00	41 21.00	510.0	0.0	COM PB			G		STACEY	13,9,E-37214
										ISOCHRON MODEL AGE,SUQ AL KHAMIS	
688	19 17.00	41 41.00	480.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,9,B-8(NBS)
										ISOCHRON MODEL AGE,AL MUCHANAL,QTZ.VEIN IN ABLAH	
689	19 17.00	41 41.00	480.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,9,B-7
										ISOCHRON MODEL AGE,AL MUCHANAL,QTZ.VEIN IN ABLAH	
690	17 36.00	43 34.00	600.0	0.0	COM PB			G		STACEY	13,9,107515(NBS)MS-ORE
										ISOCHRON MODEL AGE,KUTAN,MSV.SULPHIDE,HIGHLY SHEAR	
691	17 36.00	43 34.00	580.0	0.0	COM PB			G		STACEY	13,9,69-50(VEIN GALENA)
										ISOCHRON MODEL AGE,KUTAM,MSV.SULPHIDE,HIGHLY SHEAR	
692	24 23.00	44 20.40	530.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,10,DDB-10
										ISOCHRON MODEL AGE,SAMRAH,QTZ.VEINS IN NAJD FAULTS	
693	24 22.00	44 38.00	530.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,10,DDB-7
										ISOCHRON MODEL AGE,ARDAYAT, GALENA-QUARTZ VEIN	
694	24 22.00	44 38.00	530.0	0.0	COM PB			G		STACEY	13,10,126066A
										ISOCHRON MODEL AGE,AR RIDAYNIYAH,ZN-FE SULPHIDES	
695	24 22.00	44 38.00	530.0	0.0	COM PB			G		STACEY	13,10,ARP-13(MS)
										ISOCHRON MODEL AGE,AR RIDAYNIYAH,ZN-FE SULPHIDES	
696	23 47.00	45 4.00	530.0	0.0	COM PB			G		STACEY	13,10,87300
										ISOCHRON MODEL AGE,AL AMAR,VEINS IN FELSIC PYROCLA	
697	22 48.40	44 38.10	570.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,10,72401
										ISOCHRON MODEL AGE,BAHFOR,QTZ.VEIN IN FAULT ZONE	
698	22 46.80	45 5.80	530.0	0.0	COM PB			G		STACEY	13,10,RR-14M
										ISOCHRON MODEL AGE,WADI AQARAH,QUARTZ BLOW IN VOLC	
699	22 43.80	44 39.20	680.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,10,82115
										ISOCHRON MODEL AGE,BOSNUN,QTZ.VEIN IN FAULT	
700	22 43.90	44 22.60	530.0	0.0	COM PB			G		STACEY	13,10,72314
										ISOCHRON MODEL AGE,AL KUSHAMIYAH	
701	22 7.50	44 39.50	965.0	0.0	COM PB	QUARTZ VEIN		G		STACEY	13,10
										ISOCHRON MODEL AGE,JABAL SITARAH,QTZ.VEIN IN VOLCS	
702	21 18.80	42 36.90	1.1	0.3	K-AR	BASALT		BA W		HOTZL	14,236,107
										HARRAT NAWASIF,LAVA FLOW	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
703	21 13.50	42 47.20	3.5	0.3	K-AR	BASALT	BA	W		HOTZL	14,236,109
									HARRAT NAWASIF,LAVA		
704	24 53.00	38 33.00	518.0	12.0	RB-SR	GRANITE?	GR			BAUBRON	16,4
									PRELIM.DATE,LOCATION V.APPROX.,MARDABAH RING STRUC		
705	25 51.00	40 57.50	600.0	25.0	RB-SR	RHYOLITE	RY	W	SHAMMAR G,MALHA	BAUBRON	3,35,JCB134-138,JCB140
									ISOCHRON DATE, SEE ALSO NUQRAH QUAD GM-28,J.AWJA		
706	21 19.15	40 26.05	595.0	20.0	RB-SR	LEUCOGRANITE	GR	W		NASSEEF	17,1729,2
									ISOCHRON DATE,SYNKINEMATIC GRANITE,TAIF AREA		
707	21 19.18	40 26.06	595.0	20.0	RB-SR	LEUCOGRANITE	GR	W		NASSEEF	17,1729,26
									ISOCHRON DATE,SYNKINEMATIC GRANITE,TAIF AREA		
708	21 21.08	40 26.31	595.0	20.0	RB-SR	LEUCOGRANITE	GR	W		NASSEEF	17,1729,106
									ISOCHRON DATE,SYNKINEMATIC GRANITE,TAIF AREA		
709	21 18.32	40 28.15	525.0	20.0	RB-SR	GRANITE-ADAME.	GR	W		NASSEEF	17,1729,15
									ISOCHRON DATE,POSTKINEMATIC GRANITE,TAIF AREA		
710	21 17.86	40 28.50	525.0	20.0	RB-SR	GRANITE-ADAME.	GR	W		NASSEEF	17,1729,16
									ISOCHRON DATE,POSTKINEMATIC GRANITE,TAIF AREA		
711	21 18.64	40 28.13	525.0	20.0	RB-SR	GRANITE-ADAME.	GR	W		NASSEEF	17,1729,20
									ISOCHRON DATE,POSTKINEMATIC GRANITE,TAIF AREA		
712	21 18.70	40 28.11	525.0	20.0	RB-SR	GRANITE-ADEME.	GR	W		NASSEEF	17,1729,21
									ISOCHRON DATE,POSTKINEMATIC GRANITE,TAIF AREA		
713	20 53.50	41 22.00	550.0	0.0	RB-SR	SYENITE-TROND.	SY			BROWN	18,24
									ORAL COMM.TO GREENE&GONZALEZ BY BROWN		
714	24 55.00	38 35.00	569.0	15.0	K-AR	HB-BI-QTZ MONZ	QM	B		SNELLING	19,2,L-36,L-232
									RING COMPLEX 10 KM.IN DIA.OF GB-DR WITH QM-SY CORE		
715	24 55.00	38 35.00	535.0	15.0	K-AR	HB-BI-QTZ MONZ	QM	H		SNELLING	19,2,L-36,L-232
									RING COMPLEX 10 KM.IN DIA.OF GB-DR WITH QM-SY CORE		
716	24 55.00	38 35.00	1085.0	20.0	K-AR	HB-BI-QTZ MONZ	QM	H		SNELLING	19,2,L-247,L-254
									RING COMPLEX 10 KM.IN DIA.OF GB-DR WITH QM-SY CORE		
717	24 55.00	38 35.00	583.0	15.0	K-AR	HB-BIOT.GABBRO	GB	B		SNELLING	19,2,L-196,71,250
									RING COMPLEX 10 KM.IN DIA.OF GB-DR WITH QM-SY CORE		
718	24 55.00	38 35.00	648.0	17.0	K-AR	HB-BIQT.GABBRO	GB	H		SNELLING	19,2,L-196,71,250
									RING COMPLEX 10 KM.IN DIA.OF GB-DR WITH QM-SY CORE		
719	24 55.00	38 35.00	394.0	11.0	K-AR	ANDESITE	AN	W		SNELLING	19,2,L-188
									ANDESITIC LAVA;HOST FOR #714-718		
720	24 55.00	38 35.00	340.0	10.0	K-AR	BASALT	BA	W		SNELLING	19,2,L-50
									PORPHYRITIC DOLERITE(BR);HOST FOR #714-718		

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT, (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
721	24 55.00	38 35.00	294.0	9.0	K-AR	BASALT	BA	W		SNELLING	19,2,L-55
										PORPHYRITIC DOLERITE(BR);HOST FOR #714-718	
722	25 15.00	38 1.37	882.0	12.0	U-TH-PB	GRANOPHYRE	GH	Z		BOISSE	20,17,JCB 336
										HO-AB GRANOPHYRE,HAJA ULTRAMAFIC COMPEX	
723	25 31.32	37 34.70	796.0	23.0	U-TH-PB	TRONDHJEMITE	TJ	Z		BOISSE	20,19,JCB 571
										JAR BATHOLITH	
724	25 19.17	37 49.17	737.0	10.0	U-TH-PB	RHYOLITE	RY	Z		BOISSE	20,23,JCB 586
										INTRUSIVE INTO FARRI VOLCANICS	
725	24 47.02	39 39.90	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV173
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
726	24 47.02	39 39.90	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV174
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
727	24 48.90	39 39.30	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV176
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
728	24 48.90	39 39.30	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV177
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
729	24 48.90	39 39.30	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV178
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
730	24 49.65	39 37.07	743.0	12.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV179
										BIR FAQARAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
731	24 40.67	39 46.92	923.0	42.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV164
										J.MULAYHAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
732	24 40.67	39 46.92	923.0	42.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV165
										J.MULAYHAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
733	24 42.17	39 46.50	923.0	42.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV167
										J.MULAYHAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
734	24 44.43	39 45.43	923.0	42.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV169
										J.MULAYHAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
735	24 40.07	39 43.48	923.0	42.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV172
										J.MULAYHAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
736	24 17.50	39 11.47	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV115
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
737	24 17.50	39 11.47	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV116
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
738	24 17.50	39 11.47	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV117
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
739	24 17.50	39 11.47	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV118
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
740	24 16.48	39 12.23	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV122
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
741	24 17.00	39 12.00	814.0	45.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV124
										J.UMM ARQABAH VOLCS.ACID VOLC.SERIES,LOCN.APPROX.	
742	24 24.38	39 0.12	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV125
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
743	24 24.38	39 0.12	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV126
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
744	24 24.38	39 0.12	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV127
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
745	24 20.68	39 0.23	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV129
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
746	24 18.05	39 0.88	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV132
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
747	24 20.73	39 5.35	476.0	15.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,78YV134
										BIR AL FUR VOLCS.ACID VOLC.SERIES,ISOCHRON AGE	
748	25 45.00	39 15.00	725.0	16.0	RB-SR	RHYOL.TO ANDES		W	AL AYS GROUP	VIALETTE?	20,30,JCB268-JCB275
										N.KHAYBAR VOLCS.,ISOCHRON AGE,EXACT LOCN.UNKNOWN	
749	25 23.93	38 26.43	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB658
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
750	25 23.92	38 26.25	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB659
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
751	25 25.83	38 26.25	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB660
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
752	25 23.13	38 24.45	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB661
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
753	25 22.48	38 23.40	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB663
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
754	25 22.00	38 22.95	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB665
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
755	25 16.48	38 17.62	634.0	20.0	RB-SR	RHYOLITE	RY	W	MURSHID FM	VIALETTE?	20,30,JCB666
									AL AYS GROUP	IGNIMBRITE,ISOCHRON AGE	
756	25 55.32	38 42.50	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB232
										J.ABU SAFIYAH,ISOCHRON AGE	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

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										COMMENTS	
757	25 55.22	38 42.58	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB233
										J.ABU SAFIYAH,ISOCHRON AGE	
758	25 55.47	38 42.72	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB234
										J.ABU SAFIYAH,ISOCHRON AGE	
759	25 55.18	38 42.87	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB236
										J.ABU SAFIYAH,ISOCHRON AGE	
760	25 55.95	38 41.32	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB237
										J.ABU SAFIYAH,ISOCHRON AGE	
761	25 56.97	38 41.90	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB239
										J.ABU SAFIYAH,ISOCHRON AGE	
762	25 57.53	38 40.37	705.0	34.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,36,JCB240
										J.ABU SAFIYAH,ISOCHRON AGE	
763	24 48.17	37 48.75	725.0	12.0	U-TH-PB	TONALITE	TO	Z		BOISSE	20,34,JCB598
										J.SALAJAH BATHOLITH	
764	24 19.55	39 32.17	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV156
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
765	24 19.55	39 32.17	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV158
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
766	24 20.73	39 32.23	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV159
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
767	24 20.73	39 32.23	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV160
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
768	24 20.83	39 32.40	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV161
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
769	24 25.92	39 30.58	673.0	25.0	RB-SR	GRANOPHYRE	GH	W		VIALETTE?	20,42,78YV163
										BIR AD DAWRAH,ISOCHRON AGE;731+/-60 ALTERNATE AGE	
770	24 58.75	38 11.20	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB602
										J.HISHAM,ISOCHRON AGE	
771	24 58.75	38 10.68	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB603
										J.HISHAM,ISOCHRON AGE	
772	24 59.82	38 10.80	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB604
										J.HISHAM,ISOCHRON AGE	
773	25 0.38	38 10.15	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB605
										J.HISHAM,ISOCHRON AGE	
774	25 0.37	38 10.80	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB606
										J.HISHAM,ISOCHRON AGE	

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											COMMENTS
775	24 58.65	38 14.47	641.0	53.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,45,JCB609
										J.HISHAM,ISOCHRON AGE	
776	25 10.27	37 59.38	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB587
										W.AD DAMMA,ISOCHRON AGE	
777	25 10.33	37 59.40	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB589
										W.AD DAMMA,ISOCHRON AGE	
778	25 10.38	37 59.10	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB590
										W.AD DAMMA,ISOCHRON AGE	
779	25 10.42	37 59.28	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB591
										W.AD DAMMA,ISOCHRON AGE	
780	25 11.03	37 59.85	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB593
										W.AD DAMMA,ISOCHRON AGE	
781	25 11.07	37 59.78	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB595
										W.AD DAMMA,ISOCHRON AGE	
782	25 11.35	38 0.02	610.0	185.0	RB-SR	GRANODIORITE	GD	W		VIALETTE?	20,48,JCB596
										W.AD DAMMA,ISOCHRON AGE	
783	24 23.08	38 36.93	640.0	14.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,51,CP1
										AL BIQA,ISOCHRON AGE,590+/-25 ALTERNATE AGE.	
784	24 22.50	38 35.05	640.0	14.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,51,CP2
										AL BIQA,ISOCHRON AGE,590+/-25 ALTERNATE AGE.	
785	24 22.50	38 35.05	640.0	14.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,51,CP3
										AL BIQA,ISOCHRON AGE,590+/-25 ALTERNATE AGE.	
786	24 21.32	38 33.62	640.0	14.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,51,CP4
										AL BIQA,ISOCHRON AGE,590+/-25 ALTERNATE AGE.	
787	24 20.33	38 31.18	640.0	14.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,51,CP6
										AL BIQA,ISOCHRON AGE,590+/-25 ALTERNATE AGE.	
788	24 19.55	38 52.33	634.0	9.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,54,78YV101
										ASH SHARQAH,ISOCHRON AGE	
789	24 19.55	38 52.33	634.0	9.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,54,78YV103
										ASH SHARQAH,ISOCHRON AGE	
790	24 19.55	38 52.33	634.0	9.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,54,78YV105
										ASH SHARQAH,ISOCHRON AGE	
791	24 11.20	38 47.75	634.0	9.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,54,78YV110
										ASH SHARQAH,ISOCHRON AGE	
792	24 11.20	38 47.75	634.0	9.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,54,78YV111
										ASH SHARQAH,ISOCHRON AGE	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
793	24 21.44	37 50.02	611.0	4.0	U-TH-PB	GRANODIORITE	GD	Z		BOISSE	20,55,JCB677
										W.KAMAL	
794	24 21.92	39 13.53	602.0	57.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,60,YV145
										ARAJIB AD DARA,ISOCHRON AGE	
795	24 17.60	39 6.47	602.0	57.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,60,YV146
										ARAJIB AD DARA,ISOCHRON AGE	
796	24 13.78	39 13.58	602.0	57.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,60,YV147
										ARAJIB AD DARA,ISOCHRON AGE	
797	24 2.92	39 11.82	602.0	57.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,60,YV152
										ARAJIB AD DARA,ISOCHRON AGE	
798	24 2.92	39 11.82	602.0	57.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,60,YV153
										ARAJIB AD DARA,ISOCHRON AGE	
799	24 18.00	39 15.00	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV135
										AL JIZL,ISOCHRON AGE,LOCATION APPROXIMATE	
800	24 18.78	39 15.10	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV136
										AL JIZL,ISOCHRON AGE	
801	24 18.78	39 15.10	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV137
										AL JIZL,ISOCHRON AGE	
802	24 19.17	39 12.82	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV138
										AL JIZL,ISOCHRON AGE	
803	24 19.17	39 12.82	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV141
										AL JIZL,ISOCHRON AGE	
804	24 17.57	39 14.47	583.0	11.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,62,YV143
										AL JIZL,ISOCHRON AGE	
805	25 55.83	38 50.83	598.0	15.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,65,JCB248
										ANMAUTH SYENOGRANITE,ISOCHRON AGE	
806	25 55.62	38 50.50	598.0	15.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,65,JCB249
										ANMAUTH SYENOGRANITE,ISOCHRON AGE	
807	25 54.17	38 52.08	598.0	15.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,65,JCB250
										ANMAUTH SYENOGRANITE,ISOCHRON AGE	
808	25 51.93	38 52.47	598.0	15.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,65,JCB251
										ANMAUTH SYENOGRANITE,ISOCHRON AGE	
809	25 50.35	38 42.00	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB215
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
810	25 52.00	38 42.32	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB216
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
											COMMENTS
811	25 52.42	38 41.77	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB217
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
812	25 51.43	38 41.70	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB218
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
813	25 51.58	38 40.65	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB219
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
814	25 52.32	38 38.52	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB220
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
815	25 51.57	38 39.32	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB221
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
816	25 51.65	38 39.18	586.0	5.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,68,JCB231
										J.IYAYNAT AL BADAN,ISOCHRON AGE,BIOT.&RIEB.GRANITE	
817	24 41.47	39 24.93	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV181
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
818	24 43.52	39 22.22	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV182
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
819	24 46.05	39 21.93	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV183
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
820	24 45.35	39 26.28	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV184
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
821	24 44.22	39 27.53	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV185
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
822	24 43.63	39 25.40	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV187
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
823	24 43.63	39 25.40	561.0	16.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,71,78YV188
										J.AL BAYDA,ISOCHRON AGE,586+/-22 ALTERNATE AGE	
824	24 26.03	38 21.52	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP14
										J.RADWA,ISOCHRON AGE	
825	24 26.18	38 21.83	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP15
										J.RADWA,ISOCHRON AGE	
826	24 25.77	38 19.95	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP17
										J.RADWA,ISOCHRON AGE	
827	24 36.22	38 14.70	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP28
										J.RADWA,ISOCHRON AGE	
828	24 36.23	38 14.70	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP29
										J.RADWA,ISOCHRON AGE	

RADIOMETRIC AGE DETERMINATIONS FOR SAUDI ARABIA

SERIAL NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	AGE (MY)	UNCERT. (+/-MY)	METHOD	ROCK TYPE	RC	M	MAP/STRAT UNIT	GEOCHRONOLOGIST	REF.,PAGE #,SAMPLE #
										COMMENTS	
829	24 34.23	38 10.47	517.0	10.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,73,CP30
										J.RADWA,ISOCHRON AGE	
830	27 25.77	36 3.18	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB353
										J.MASSAH,ISOCHRON AGE	
831	27 26.03	36 3.07	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB354
										J.MASSAH,ISOCHRON AGE	
832	27 26.20	36 2.75	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB355
										J.MASSAH,ISOCHRON AGE	
833	27 26.30	36 4.38	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB358
										J.MASSAH,ISOCHRON AGE	
834	27 26.52	36 4.00	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB360
										J.MASSAH,ISOCHRON AGE	
835	27 25.57	36 2.42	629.0	12.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,76,JCB361
										J.MASSAH,ISOCHRON AGE	
836	27 12.45	36 11.20	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB362
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	
837	27 12.45	36 11.20	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB363
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	
838	27 12.45	36 11.20	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB365
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	
839	27 9.45	36 16.37	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB367
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	
840	27 7.75	36 18.30	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB369
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	
841	27 8.92	36 21.35	630.0	19.0	RB-SR	GRANITE	GR	W		VIALETTE?	20,79,JCB368
										UNNAMED RIEBECKITE GRANITE,ISOCHRON AGE,CATACLASIS	