Certificate of Analysis
Work Order : VC161927
[Report File No.: 0000017870]

Date: July 06, 2016

To: **James Rogers**
COD SGS ASSAYERS
LONGFORD EXPLORATION SERVICES LTD
6970 Napier Street
Burnaby
BC V5B 2C4

P.O. No.: Longford Exploration / Intact-Blackjack1
Project No.: -
Samples: 14
Received: Jun 10, 2016
Pages: Page 1 to 15
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
14	G_LOG02	Pre-preparation processing, sorting, logging, boxing
14	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
14	G_WGH79	Weighing of samples and reporting of weights
14	GE_IC14A	Aqua Regia digestion/ICP-AES finish
14	GE_IC14M	Aqua Regia digestion/ICP-MS finish
14	GE_IMS90A	Sodium Peroxide fusion/ICP-MS package
14	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
1	GO_FAG303	30 g, Fire assay, gravimetric finish(Au)(Final Mode)

Comments:

Results may be subject to analytical interferences.
Boron values are informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Ag_	@Al	@B	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	0.01	10	5	0.01	1	0.5
Units	kg	ppm	%	ppm	ppm	%	ppm	ppm
K934651	0.795	1.08	3.08	10	71	0.89	64	969
K934652	0.720	0.04	3.11	10	38	2.70	46	46.2
K934653	0.850	0.05	1.95	10	66	7.60	69	29.2
K934654	1.660	0.05	0.51	10	18	3.54	16	17.4
K934655	1.130	0.10	0.59	<10	14	0.20	36	102
K934656	1.385	0.03	3.26	10	123	6.21	114	37.6
K934657	1.040	2.06	0.18	10	7	0.15	17	2620
K934658	1.210	12.7	0.77	10	17	1.58	30	6010
K934659	1.020	0.11	3.89	<10	73	1.36	100	272
K934660	1.245	0.07	2.56	<10	21	2.02	38	138
K934661	1.815	1.20	1.56	<10	105	2.67	53	1150
K934662	1.340	17.1	0.12	<10	5	0.12	23	160
K934663	0.985	0.20	5.16	<10	31	0.42	208	45.8
K934664	1.525	0.04	1.32	<10	58	1.87	38	133

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Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.005
Units	%	%	ppm	%	ppm	%	ppm	%
K934651	9.51	0.17	10	1.85	675	0.07	25.0	0.034
K934652	3.93	0.08	8	1.29	562	0.36	38.2	0.047
K934653	6.52	0.63	12	2.41	1730	0.06	71.4	0.040
K934654	3.27	0.04	2	0.71	1080	0.01	12.5	0.007
K934655	2.31	0.03	2	0.43	386	0.02	12.5	0.009
K934656	6.85	0.90	21	2.30	1100	0.09	55.4	0.043
K934657	1.83	0.02	<1	0.13	131	0.01	8.8	<0.005
K934658	3.21	0.06	3	0.51	417	0.02	20.7	0.007
K934659	8.49	0.16	19	2.62	1000	0.13	72.9	0.050
K934660	3.70	0.05	9	1.17	450	0.36	48.9	0.048
K934661	12.4	0.74	13	1.11	771	0.09	85.9	0.041
K934662	0.86	<0.01	<1	0.08	108	<0.01	3.9	<0.005
K934663	8.94	0.02	30	4.39	1090	0.06	97.6	0.033
K934664	3.73	0.09	9	0.81	580	0.03	26.7	0.017

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Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
K934651	0.62	10.5	0.37	166	54	6.0	7	<0.1
K934652	0.02	35.3	0.40	130	43	5.5	3	0.1
K934653	0.14	59.9	0.18	144	36	3.2	5	0.1
K934654	0.02	22.3	0.02	30	25	0.9	3	<0.1
K934655	0.08	1.8	0.08	54	27	1.7	3	<0.1
K934656	0.16	44.4	0.23	308	133	5.3	27	<0.1
K934657	0.56	1.5	0.01	16	33	<0.5	87	<0.1
K934658	0.72	8.0	0.07	57	76	1.4	49	<0.1
K934659	0.16	24.2	0.40	183	87	8.2	2	<0.1
K934660	0.15	38.6	0.26	115	40	6.0	3	0.1
K934661	>5.00	32.8	0.19	250	48	8.9	1	0.2
K934662	0.06	0.9	<0.01	6	513	<0.5	2	<0.1
K934663	0.02	2.9	0.33	285	188	4.3	11	<0.1
K934664	0.04	9.6	0.18	150	46	2.9	9	<0.1

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Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
K934651	0.67	0.05	5.56	34.1	1.68	9.2	0.3	0.10
K934652	0.03	0.08	8.35	18.7	0.31	8.3	0.2	0.18
K934653	0.21	0.09	10.0	22.3	1.14	6.9	<0.1	<0.05
K934654	0.11	0.13	5.43	7.0	0.09	1.7	<0.1	<0.05
K934655	0.16	0.07	2.67	8.9	0.13	2.5	<0.1	<0.05
K934656	0.08	0.13	6.50	27.6	2.39	11.5	0.2	0.07
K934657	3.30	0.89	0.99	29.1	0.07	0.9	<0.1	<0.05
K934658	5.95	1.30	2.25	52.6	0.18	2.7	<0.1	<0.05
K934659	0.04	0.05	8.85	54.6	0.81	10.5	0.3	0.19
K934660	<0.02	0.08	8.98	23.5	0.07	7.2	0.2	0.10
K934661	1.81	0.16	9.56	82.4	3.46	8.6	0.2	0.13
K934662	39.6	6.67	0.72	2.8	0.06	0.4	<0.1	<0.05
K934663	0.30	0.07	4.63	44.8	0.26	15.0	0.3	0.06
K934664	0.79	0.06	4.85	18.6	1.29	6.3	0.1	<0.05

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Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
K934651	0.04	0.04	2.2	0.10	0.85	0.16	1.1	12.5
K934652	0.03	<0.02	3.0	0.20	0.60	0.49	2.6	3.7
K934653	0.03	0.03	3.4	0.08	0.70	0.16	1.9	25.9
K934654	0.02	<0.02	1.9	0.06	1.05	0.05	5.1	2.1
K934655	0.02	<0.02	0.6	0.03	29.6	0.20	6.3	1.6
K934656	0.08	0.04	2.0	0.15	13.0	0.14	2.5	42.4
K934657	0.05	0.24	0.2	<0.01	1.55	<0.05	3.3	0.9
K934658	0.19	0.43	0.6	0.05	2.50	0.14	6.9	3.4
K934659	<0.01	<0.02	3.0	0.17	0.51	0.27	1.0	10.2
K934660	<0.01	<0.02	3.1	0.17	0.56	0.20	2.8	0.9
K934661	0.15	0.05	3.4	0.16	1.83	0.26	3.2	40.6
K934662	0.14	0.04	0.1	<0.01	1.83	<0.05	516	0.4
K934663	<0.01	<0.02	1.3	0.16	0.37	0.17	7.6	1.3
K934664	<0.01	<0.02	1.7	0.10	2.91	0.23	1.2	11.2

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Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
K934651	0.05	11.9	5	0.7	<0.05	0.16	0.17	0.3
K934652	0.08	11.9	<1	0.7	<0.05	0.36	<0.05	0.3
K934653	0.09	19.8	<1	0.6	<0.05	0.27	<0.05	0.1
K934654	0.10	6.4	<1	0.4	<0.05	0.21	<0.05	<0.1
K934655	0.10	4.7	<1	0.5	<0.05	0.08	<0.05	<0.1
K934656	<0.05	28.9	<1	1.0	<0.05	0.28	<0.05	0.2
K934657	0.14	1.1	1	0.5	<0.05	0.02	1.05	<0.1
K934658	0.08	5.9	3	0.6	<0.05	0.09	1.15	<0.1
K934659	<0.05	9.0	1	0.7	<0.05	0.34	<0.05	0.3
K934660	<0.05	9.9	<1	0.5	<0.05	0.33	<0.05	0.3
K934661	0.09	18.9	2	0.7	<0.05	0.41	0.41	0.2
K934662	0.09	0.4	2	0.4	<0.05	<0.02	0.57	<0.1
K934663	<0.05	22.0	<1	0.6	<0.05	0.27	<0.05	0.3
K934664	<0.05	11.8	<1	0.4	<0.05	0.16	0.12	0.1

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Element	@Tl	@U	@W	@Y	@Yb	Ag	Al	As
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.02	0.05	0.1	0.05	0.1	1	0.01	3
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
K934651	0.10	0.05	<0.1	5.67	0.6	2	6.87	4
K934652	0.02	0.07	0.4	13.0	1.4	<1	7.39	<3
K934653	0.15	<0.05	1.5	4.97	0.5	<1	5.15	4
K934654	<0.02	<0.05	0.5	4.41	0.4	<1	0.68	<3
K934655	<0.02	<0.05	3.3	2.30	0.2	<1	0.99	<3
K934656	0.25	<0.05	10.8	7.57	0.8	<1	7.31	26
K934657	<0.02	<0.05	0.2	0.81	<0.1	2	0.24	87
K934658	<0.02	<0.05	0.6	2.68	0.3	19	1.11	48
K934659	0.05	0.07	0.4	11.8	1.3	<1	8.43	<3
K934660	<0.02	0.06	<0.1	11.0	1.1	<1	7.93	<3
K934661	0.26	<0.05	130	11.3	1.1	1	4.89	<3
K934662	<0.02	<0.05	1.0	0.24	<0.1	18	0.20	<3
K934663	<0.02	<0.05	1.1	11.1	1.3	<1	8.38	10
K934664	0.18	0.13	6.5	5.40	0.7	<1	2.38	7

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Element	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	10	1	0.1	0.1	0.2	0.1	0.5	5
Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
K934651	70	<1	1.1	5.0	<0.2	8.8	43.9	108
K934652	60	<1	0.1	7.7	<0.2	11.8	40.9	129
K934653	110	<1	0.2	8.0	<0.2	12.7	22.1	96
K934654	20	<1	0.1	3.7	0.3	5.5	7.3	34
K934655	10	<1	0.3	0.3	<0.2	2.5	8.2	56
K934656	130	<1	<0.1	6.2	0.2	6.3	25.9	122
K934657	<10	<1	3.7	0.2	1.0	0.5	26.9	32
K934658	20	<1	5.6	1.6	1.5	1.7	48.2	40
K934659	90	<1	<0.1	5.5	<0.2	13.5	66.1	161
K934660	50	<1	<0.1	7.2	0.2	12.1	51.1	144
K934661	110	<1	2.1	3.0	0.3	10.8	88.1	68
K934662	10	<1	38.7	0.1	7.1	0.4	2.9	42
K934663	30	<1	0.3	1.1	<0.2	8.4	46.0	227
K934664	60	<1	0.8	2.3	<0.2	5.4	20.3	51

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Element	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.1	2	0.05	0.05	0.05	0.01	1	0.05
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
K934651	1.8	1010	3.85	2.47	0.87	14.4	18	2.96
K934652	0.4	43	4.82	3.18	1.09	11.4	18	4.19
K934653	1.4	27	5.31	3.32	1.09	8.30	11	4.95
K934654	0.1	12	1.90	1.05	0.50	3.37	2	2.05
K934655	0.1	84	0.61	0.33	0.13	2.37	3	0.58
K934656	2.3	37	2.28	1.41	0.60	8.38	14	2.00
K934657	<0.1	2590	0.41	0.26	0.05	1.77	<1	0.27
K934658	0.2	6050	0.79	0.46	0.17	3.35	3	0.69
K934659	0.8	287	5.12	3.41	1.08	12.5	19	4.45
K934660	<0.1	153	5.29	3.09	1.11	11.7	19	4.39
K934661	3.5	1210	4.16	2.46	0.88	13.5	13	3.50
K934662	<0.1	159	0.05	<0.05	<0.05	0.85	<1	<0.05
K934663	0.3	52	3.43	2.33	0.63	9.97	16	2.75
K934664	1.4	150	1.42	1.09	0.27	3.91	8	1.19

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Element	Ge	Ho	In	K	La	Li	Lu	Mg
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.05	0.2	0.1	0.1	5	0.05	0.01
Units	ppm	ppm	ppm	%	ppm	ppm	ppm	%
K934651	2	0.84	0.2	0.3	3.3	8	0.37	3.04
K934652	2	1.06	<0.2	0.2	4.4	6	0.45	3.77
K934653	1	1.08	<0.2	1.1	5.1	10	0.46	2.62
K934654	2	0.41	<0.2	0.1	2.2	<5	0.15	0.77
K934655	1	0.13	<0.2	<0.1	0.8	<5	0.05	0.53
K934656	1	0.44	<0.2	1.0	2.3	13	0.22	2.56
K934657	<1	0.09	0.2	<0.1	0.2	<5	<0.05	0.13
K934658	1	0.16	0.4	0.1	0.7	<5	0.07	0.52
K934659	2	1.15	<0.2	0.3	4.8	14	0.50	3.79
K934660	2	1.09	<0.2	0.2	4.4	11	0.47	4.05
K934661	1	0.85	<0.2	0.9	4.0	9	0.34	1.30
K934662	3	<0.05	<0.2	<0.1	0.2	<5	<0.05	0.08
K934663	2	0.78	<0.2	<0.1	3.0	23	0.31	4.72
K934664	2	0.32	<0.2	0.2	2.2	6	0.16	0.94

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Element	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	10	2	2	0.1	5	0.01	2	0.05
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
K934651	1150	3	3	6.6	35	0.04	3	1.23
K934652	1580	<2	3	9.2	92	0.04	4	1.83
K934653	1940	<2	2	10.3	77	0.04	3	1.98
K934654	1000	3	<2	4.6	15	<0.01	6	0.82
K934655	360	28	<2	1.4	13	<0.01	8	0.28
K934656	1150	13	3	5.0	60	0.04	4	1.04
K934657	120	3	<2	0.4	9	<0.01	4	0.08
K934658	390	4	<2	1.3	22	<0.01	8	0.26
K934659	1560	2	4	10.1	93	0.05	3	1.92
K934660	1670	2	4	10.1	98	0.05	4	1.92
K934661	920	3	3	7.8	93	0.04	5	1.54
K934662	100	4	<2	0.1	13	<0.01	513	<0.05
K934663	1080	<2	2	6.2	105	0.03	10	1.17
K934664	650	5	<2	3.7	28	0.02	3	0.78

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Element	Rb	Re	S	Sb	Si	Sm	Sn	Sr
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	2	0.05	1	1	0.1	0.1	1	10
Units	ppm	ppm	%	ppm	%	ppm	ppm	ppm
K934651	14	<0.05	<1	<1	22.9	2.4	1	90
K934652	5	<0.05	<1	<1	23.1	3.2	<1	90
K934653	40	<0.05	<1	<1	23.1	3.5	<1	90
K934654	4	<0.05	<1	<1	36.0	1.5	<1	20
K934655	<2	<0.05	<1	<1	38.6	0.4	<1	<10
K934656	44	<0.05	<1	<1	21.6	1.7	<1	70
K934657	<2	<0.05	<1	<1	>40.0	0.2	<1	<10
K934658	4	<0.05	<1	<1	38.0	0.5	<1	10
K934659	11	<0.05	<1	<1	21.3	3.5	<1	190
K934660	2	<0.05	<1	<1	23.5	3.3	<1	140
K934661	46	<0.05	7	<1	22.3	2.7	<1	140
K934662	<2	<0.05	<1	<1	>40.0	<0.1	<1	<10
K934663	2	<0.05	<1	<1	25.6	2.0	<1	50
K934664	12	<0.05	<1	<1	36.8	0.9	<1	40

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Element	Ta	Tb	Te	Th	Ti	Tl	Tm	U
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.5	0.05	1	0.1	0.01	0.5	0.05	0.05
Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
K934651	<0.5	0.61	<1	0.5	0.70	<0.5	0.38	0.22
K934652	<0.5	0.79	<1	0.5	0.76	<0.5	0.46	0.14
K934653	<0.5	0.84	<1	0.4	0.49	<0.5	0.47	0.07
K934654	<0.5	0.33	<1	<0.1	0.05	<0.5	0.17	<0.05
K934655	<0.5	0.10	<1	0.1	0.12	<0.5	0.06	<0.05
K934656	<0.5	0.38	<1	0.3	0.60	<0.5	0.22	0.11
K934657	<0.5	0.06	<1	<0.1	0.03	<0.5	<0.05	<0.05
K934658	<0.5	0.11	1	<0.1	0.11	<0.5	0.07	<0.05
K934659	<0.5	0.78	<1	0.5	0.80	<0.5	0.52	0.17
K934660	<0.5	0.78	<1	0.6	0.77	<0.5	0.48	0.16
K934661	<0.5	0.64	<1	0.4	0.55	<0.5	0.38	0.16
K934662	<0.5	<0.05	<1	<0.1	<0.01	<0.5	<0.05	<0.05
K934663	<0.5	0.53	<1	0.5	0.50	<0.5	0.32	0.11
K934664	<0.5	0.21	<1	0.3	0.33	<0.5	0.16	0.19

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Element	V	W	Y	Yb	Zn	@Au	@Au
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_FAA313	GO_FAG303
Det.Lim.	5	5	0.5	0.1	5	5	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppb	g/t
K934651	350	<5	21.2	2.4	92	31	N.A.
K934652	340	<5	27.5	3.1	97	<5	N.A.
K934653	195	5	30.5	3.3	44	256	N.A.
K934654	36	<5	11.2	1.0	27	9	N.A.
K934655	53	6	3.0	0.3	31	6	N.A.
K934656	280	18	12.0	1.4	146	5	N.A.
K934657	15	<5	2.6	0.2	31	1310	N.A.
K934658	54	<5	4.6	0.5	74	3570	N.A.
K934659	370	<5	29.6	3.1	127	5	N.A.
K934660	352	<5	28.6	3.1	120	<5	N.A.
K934661	266	171	21.6	2.2	64	2860	N.A.
K934662	7	<5	<0.5	<0.1	542	>10000	14.92
K934663	288	<5	19.0	2.1	207	24	N.A.
K934664	157	12	9.1	1.1	55	384	N.A.

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