

830484

DIAMOND DRILLING REPORT

ON

MINING LEASE No. 13

CHAPPELLE GOLD PROPERTY

Toodoggone River Area
Omineca Mining Division
British Columbia

NTS 94E/6E

Latitude: 57°17'N

Longitude: 127°06'W

OWNER: MULTINATIONAL RESOURCES INC.

AUTHOR: N.C. CARTER, Ph.D. P.Eng.

DATE: December 2, 1986

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

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INTRODUCTION

Multinational Resources Inc. carried out a three phase diamond drilling program on the Chappelle gold property in the Toodoggone River area of north-central British Columbia in 1986.

This report deals with the second phase of the drilling program completed on what is referred to as the B Zone on the property.

LOCATION AND ACCESS

The Chappelle property includes a 35 km² area south of Toodoggone River in the western part of the Samuel Black Range 280 km north of Smithers (Figure 1). Principal mineralized zones, camp and mill are centred on Latitude 57°17' North, Longitude 127°06' West in NTS map-area 94E/6E.

Current access to the property is by air from Smithers to the Sturdee River Valley airstrip, a distance of 270 km. A 15 km all-weather road links the property with the airstrip (Figure 2).

The terminus of the Omineca Resource Road is 60 km southeast of the property.

Facilities on site include a 70 person camp, a 90 tonnes per day mill and ancillary buildings.

PHYSICAL SETTING

The Chappelle property is situated in open, alpine terrain. Sparse vegetation is restricted to valley bottoms and much of the

claims area features alpine grasses and felsenmeer.

Elevations range from 1540 metres to more than 2000 metres above sea level.

HISTORY

Gold-silver mineralization was discovered on the Chappelle property by Kennco Explorations (Western) Limited in 1969. Several quartz vein structures were identified including the A Vein which was explored by hydraulic trenching and two short diamond drill holes.

Conwest Exploration Ltd. optioned the property in 1973 and constructed an airstrip at Black Lake (Figure 2) and a road to the property prior to driving a 200 metre adit to further explore the A Vein. Limited underground diamond drilling was also carried out but results were not encouraging and the option was terminated.

DuPont of Canada Exploration Limited acquired the property in 1974 and over the next five years completed 8700 metres of diamond drilling and 460 metres of underground development on the A Vein structure. A production decision was made in 1979 and an airstrip was constructed in the Sturdee River Valley to facilitate air freighting of all equipment including a 90 tonnes per day mill.

The project, known as Baker Mine, went on stream in May of 1981. Operations over a 31 month period included milling of 70,000 tonnes which yielded 1169.7 kg gold (37,606 ounces) and 23079.8 kg silver (742,117 ounces).

During this period, 4260 metres of diamond drilling was undertaken on the A Vein and several other zones in the mine area in an attempt to increase reserves. These efforts were not successful and operations ceased December 1, 1983.

Multinational Resources Inc. acquired the mineral rights to the property in mid-1985 and carried out a program of heavy sediment sampling, trenching, resistivity surveys and 613 metres of diamond drilling on several zones in the vicinity of the former mine. This \$107,000 program included two drill holes on the B Zone, one of which intersected significant gold and silver values.

MINERAL PROPERTY

The Chappelle property includes one Mining Lease (10 units), 158 2-post mineral claims and fractions and one Modified Grid claim of 16 units located in the Omineca Mining Division. The claims are shown on Figure 3 and a complete listing of claims is contained in Appendix I. While all the subject drilling in 1986 was carried out on the Mining Lease, assessment work is being applied to those claims indicated as being grouped in Appendix I.

Multinational Resources Inc.'s agreement with DuPont of Canada Inc. covers all claims with the exception of 10 full and fractional 2-post claims on which the camp, mill and tailing pond are situated.

1986 DIAMOND DRILLING PROGRAM

Phase II drilling on the Chappelle property consisted of 977.5 metres of NQ sized core recovered from 10 inclined holes drilled from 7 sites.

The B Zone, 365 metres northeast of the A Vein previously mined by DuPont, was tested by 747.1 metres of drilling and one 230.4 metre hole was drilled to test the depth potential of the A Vein.

Drill hole locations are shown on Figures 4 and 5 and complete drill logs are included as Appendix II. Drill core is stored in a core shack near the existing mill facility.

Drill site locations were surveyed and location of holes are shown relative to the boundaries of Mining Lease No. 13 on Figure 4.

GEOLOGICAL SETTING

The Toodoggone River area is situated near the eastern margin of the Intermontane tectonic belt. The area is principally underlain by a Mesozoic volcanic sequence which is intruded by Jurassic granitic rocks and in part overlain by late Cretaceous-early Tertiary clastic sedimentary rocks.

The region is host to a number of significant gold (silver) deposits and prospects. The majority of these are proximal to regional fault structures and are associated with veins, stockworks and silicified zones developed in a distinctive volcanic lithology

of lower Jurassic age known as Toodoggone Volcanics.

By contrast, precious metals mineralization on the Chappelle property is principally hosted by slightly older, late Triassic Takla Group volcanic rocks immediately north of their contact with granitic rocks of the Black Lake stock. Older, Permian age limestones and subordinate cherts are in thrust fault contact with Takla Group rocks in the southwestern part of the property.

Seven known vein systems occur in Takla Group augite andesites in the western part of the property. The veins strike northeasterly to east-southeast and are steeply dipping. Wallrocks are variably silicified and altered to sericite, clay minerals and carbonate with intensity increasing with proximity to vein structures. Pyrite is ubiquitous in country rocks, generally in the 3-5% range. Prominent gossans in Takla Group rocks are a feature of the central and western claims area.

Takla Group rocks are overlain by gently dipping porphyritic flows and fragmental volcanic rocks of the Toodoggone sequence near the north and west property boundaries. Toodoggone volcanics also underlie much of the eastern claims area. Quartz-feldspar porphyry dykes, spatially related to several of the quartz veins, are believed to represent feeders for some of the Toodoggone volcanic rocks.

Initial work on the Chappelle property showed best gold-silver grades to be contained in the A vein which strikes northeast and dips steeply northwest. While the structure has been traced over

a strike length in excess of 400 metres, significant precious metals grades were found to be contained in a flat-lying shoot 200 metres in length by 3 metres wide and extending to a depth of 40 metres below surface. Reserve estimates prior to mining were 95,000 tonnes grading 33.9 grams gold (0.99 oz/ton) and 680.2 grams silver (19.84 oz/ton) per tonne, using a cut-off grade of 12 grams/tonne (0.35 oz/ton) gold equivalent.

Gold and silver values in the A Vein are present as electrum and argentite. Base metals minerals, chalcopyrite, sphalerite and galena, are commonly associated with higher gold-silver grades.

The A Vein is segmented by numerous cross-faults and dip-slip faults with the result that wallrocks, particularly in the hangingwall, are badly broken.

1986 DIAMOND DRILLING RESULTS

As previously noted, Phase II drilling consisted of 977.5 metres, principally on the B Zone (Figures 4 and 5). Note that drill logs (Appendix II) show gold and silver values in Imperial units; both metric and Imperial units are shown on assay certificates (Appendix III).

One 230.4 metre hole (M86-11) - Figure 4) was drilled below the northeast end of the A Vein to further investigate the possibility of a precious metals zone apexing 60 metres below the main shoot. While several previous drill holes drilled by DuPont had indicated

interesting gold-silver values in this area, the 1986 drill hole intersected only low assay and geochemical values.

B Zone, 365 metres northeast of A Vein (Figure 4) was tested by 747.1 metres of drilling in 9 holes drilled from 7 sites (Figure 5). Phase II included holes M86-10 and M86-12 - 19.

Road cuts and old trenches expose several 0.3 to 0.6 metre wide white quartz veins which strike east-southeast and dip at moderate angles to the north. These are hosted by Takla augite andesites which exhibit varying intensity of alteration to a mixture of quartz-sericite-clay minerals-carbonate and pyrite (QSP alteration as noted in drill logs). Altered rocks feature numerous, closely spaced 0.5 to 1cm wide parallel quartz veinlets of similar trend to the larger quartz veins. 1985 sampling of veins and altered wallrocks yielded values of 35-145 ppb gold and 0.2-1.5 ppm silver.

B Zone was tested by one hole drilled by DuPont in 1981 and two holes drilled by Multinational in 1985. One of these holes intersected a 4.27 metre interval grading 0.327 oz. gold and 5.16 oz. silver per ton, and Phase I drilling in 1986 was undertaken to extend this zone. These holes were drilled on southeast azimuths and only one hole yielded good gold silver grades.

A vertical structure was suspected and Phase II drilling consisted of holes drilled to the northwest. The first hole, M86-10, intersected two well mineralized sections of quartz vein which assayed 0.306 oz. gold, 0.76 oz. silver per ton over 2.62

metres and 0.289 oz. gold and 0.17 oz. silver per ton over 4.1 metres. Other Phase II holes, drilled at 25 to 30 metre intervals, were successful in extending the zone along strike and to depth. A northwest-striking quartz-feldspar porphyry dyke was intersected in three of the westernmost holes drilled.

CONCLUSIONS

Phase II diamond drilling on the B Zone identified a gold-silver bearing quartz vein which apparently terminates 20 to 30 metres below surface. The vein was traced over a strike length of 120 metres and to a depth of 100 metres below surface. The structure strikes northeast and is vertical to steeply northwest dipping. True widths are in the order of 2.4 to 4.5 metres.

At least three generations of quartz veining are apparent, including white quartz with minor carbonate and drusy cavities and grey quartz with abundant sulfides. Both are cut by late stage quartz-carbonate stringers with little or no sulfides. Better gold-silver grades are generally associated with higher concentrations of base metal sulfides, principally chalcopyrite and sphalerite.

The gold-silver zone occupies a gently northeast raking shoot over a 60 metre vertical interval within the plane of the vein.

COST STATEMENT

Diamond Drilling -	
977.5 metres @ \$112.20/metre	\$109,679.40
(August 11-29, 1986 - all-inclusive price as quoted by J.T. Thomas Diamond Drilling Ltd. - included camp operation and all incidentals related to drilling)	
Analytical Costs	
Assaying - 163 samples @ \$16.50 (Au, Ag) (includes 27 samples on rush basis @ \$33.00/sample)	\$3,135.00
Geochemical analyses - 12 samples @ \$14.20 (Cu, Pb, Zn, Ag, Au)	\$170.40
	<u>\$3,305.40</u>
Travel	
August 10 - Motel, meals	\$72.62
August 11 - Meals	\$5.70
August 10 - Bus fare-Kamloops-Smithers	\$65.00
August 16 - Fixed wing-Smithers-Sturdee	\$775.10
	<u>\$918.42</u>
Freight	
Sample shipments	<u>\$294.50</u>
Supervision, Sampling	
N.C. Carter - August 11-29	\$7,000.00
G. Auger - August 11-23	<u>\$2,600.00</u>
	<u>\$9,600.00</u>
Report Preparation	
N.C. Carter - compilation	\$1,200.00
Duplicating	\$23.90
Report binders	\$10.50
Secretarial	<u>\$75.00</u>
	<u>\$1,309.40</u>
TOTAL	<u>\$125,107.12</u>

REFERENCES

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Chappelle Claims 1, 3, 4 and 20, Omineca
Mining Division, British Columbia-Private
Report for Multinational Resources Inc.

AUTHOR'S QUALIFICATIONS

I, Nicholas C. Carter, do hereby certify that:

1. I am a Consulting Geologist resident at 1410 Wende Road, Victoria, British Columbia.
2. I am a graduate of the University of New Brunswick with B.Sc.(1960), Michigan Technological University with M.S.(1962), and the University of British Columbia with Ph.D.(1974).
3. I have been a registered Professional Engineer in the Association of Professional Engineers of British Columbia since 1966.
4. I have practised my profession in eastern and western Canada and in parts of the United States over the past 25 years.
5. This report describes the results of a 1986 diamond drilling program on the Chappelle gold property which was carried out under my supervision.

Dated at Victoria, British Columbia, this 2nd day of December, 1986

N.C. Carter, Ph.D. P.Eng.

APPENDIX I

CHAPPELLE PROPERTY MINERAL CLAIMS

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

APPENDIX II

DIAMOND DRILL HOLE LOGS

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

APPENDIX III

ANALYTICAL RESULTS

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: MULTINATIONAL RESOURCES

File: 6-625

Project: CHAPPELLE

Date: AUGUST 18/86

Attention: WM. CLANDEY

Type: ROCK ASSAY

CONFIDENTIAL

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
30179	2.6	0.08	.04	0.001
30180	1.5	0.04	.21	0.006
30181	2.0	0.06	.03	0.001
30182	4.2	0.12	.22	0.006
30183	4.6	0.13	.60	0.018
30184	6.5	0.19	.86	0.025
30185	20.1	0.59	2.72	0.079
30186	11.5	0.34	2.50	0.073
30187	62.8	1.83	*15.60	0.455
30188	28.4	0.83	30.10	0.878
30189	8.1	0.24	1.98	0.058
30190	2.7	0.08	.62	0.018
30191	1.8	0.05	.20	0.006
30192	0.2	0.01	.39	0.011
30193	0.3	0.01	.21	0.006
30194	0.4	0.01	.04	0.001
30195	0.2	0.01	.20	0.006
30196	1.2	0.04	12.60	0.368
30197	0.2	0.01	*5.40	0.158
30198	2.1	0.06	2.91	0.085
30199	1.4	0.04	5.03	0.147
30200	4.3	0.13	6.34	0.185
23751	10.0	0.29	*13.30	0.388
23752	18.0	0.53	*19.90	0.580

*SAMPLES CONTAIN METALLIC GOLD.

Certified by



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TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: MULTINATIONAL RESOURCES
Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-656/P1
Date: AUGUST 25/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
23753	4.9	0.14	.25	0.007
23754	2.2	0.06	.24	0.007
23755	3.6	0.11	.79	0.023
23756	2.5	0.07	.30	0.009
23757	2.2	0.06	.07	0.002
23766	2.4	0.07	.08	0.002
23767	2.3	0.07	.43	0.013
23768	2.2	0.06	.12	0.004
23769	4.2	0.12	.03	0.001
23770	7.0	0.20	.04	0.001
23771	<u>2.1</u>	0.06	.08	0.002
23776	4.0	0.12	.06	0.002
23777	4.2	0.12	.10	0.003
23778	7.0	0.20	.25	0.007
23779	4.3	0.13	.16	0.005
23780	4.2	0.12	.11	0.003
23781	2.0	0.06	.07	0.002
23782	2.6	0.08	.38	0.011
23783	2.0	0.06	.18	0.005
23784	6.0	0.18	.20	0.006
23785	2.3	0.07	.13	0.004
23786	4.2	0.12	.04	0.001
23787	4.4	0.13	.10	0.003
23788	2.0	0.06	.15	0.004
23789	1.6	0.05	.17	0.005
23790	4.3	0.13	.40	0.012
23791	2.0	0.06	.06	0.002
23792	2.4	0.07	.21	0.006
23793	2.1	0.06	.20	0.006
23794	2.2	0.06	.20	0.006

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MULTINATIONAL RESOURCES
Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-656
Date: AUGUST 25/86
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB
23758	170	26	90	1.6	80
23759	132	18	85	1.4	74
23760	280	22	73	2.1	78
23761	158	20	63	1.7	70
23762	168	21	44	1.4	75
23763	136	19	64	1.5	81
23764	134	16	52	1.6	76
23765	169	16	57	1.6	80
23772	155	20	104	2.0	25
23773	68	80	180	1.8	8
23774	88	23	52	1.8	35
23775	45	17	35	1.3	30
30206	7	8	11	0.4	10
30207	30	10	21	0.6	7
30208	14	9	32	0.7	12
30209	5	10	70	0.6	1
30210	20	9	66	0.6	1
30211	16	7	18	0.5	3
30212	38	18	135	1.4	2
30213(1620-1)	6	10	10	0.6	9
30214(1620-2)	10	7	25	0.5	3
30215	7	22	13	0.6	1
30216	5	10	10	0.6	40
30217	10	14	13	0.6	30
30218	10	16	10	0.7	6

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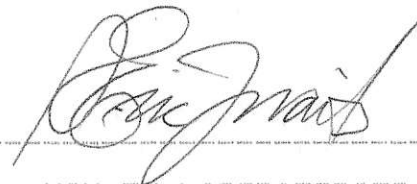
Company: MULTINATIONAL RESOURCES
Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-656/P2
Date: AUGUST 25/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG	AG	AU	AU
	G/TONNE	OZ/TON	G/TONNE	OZ/TON
23795	4.4	0.13	1.35	0.039
23796	0.2	0.01	.20	0.006
23797	1.0	0.03	.80	0.023
23798	0.5	0.01	.63	0.018
23799	0.8	0.02	20.85	0.608
23800	8.2	0.24	2.64	0.077
23801	5.8	0.17	4.25	0.124
23802	1.0	0.03	.18	0.005
23803	0.5	0.01	.17	0.005
23804	0.3	0.01	.11	0.003
23805	6.0	0.18	1.70	0.050

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Company: MULTINATIONAL RESOURCES

Project: CHAPPELLE

Attention: WM. CLANCEY

File: 6-698/P1


Date: AUGUST 29/86

Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
23806	20.3	0.59	.20	0.006
23807	6.0	0.18	.13	0.004
23808	2.1	0.06	.19	0.006
23809	1.9	0.06	.04	0.001
23810	1.6	0.05	.16	0.005
23811	2.2	0.06	.05	0.001
23812	5.4	0.16	.01	0.001
23813	2.3	0.07	.46	0.013
23814	1.8	0.05	.07	0.002
23815	3.3	0.10	.03	0.001
23816	1.6	0.05	.02	0.001
23817	2.1	0.06	.03	0.001
23818	1.4	0.04	.01	0.001
23819	1.5	0.04	.02	0.001
23820	2.2	0.06	.02	0.001
23821	5.7	0.17	.03	0.001
23822	3.2	0.09	.02	0.001
23823	6.4	0.19	.01	0.001
23824	4.3	0.13	.43	0.013
23825	6.0	0.18	.33	0.010
23826	2.8	0.08	.60	0.018
23827	1.7	0.05	.32	0.009
23828	63.0	1.84	8.10	0.236
23829	125.0	3.65	5.30	0.155
23830	930.0	27.13	52.00	1.517
23831	198.0	5.78	10.80	0.315
23832	263.0	7.67	5.41	0.158
23833	425.0	12.40	32.40	0.945
23834	22.5	0.66	4.65	0.136
23835	3.2	0.09	.61	0.018

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Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-698/P2
Date: AUGUST 29/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
23836	1.9	0.06	.43	0.013
23837	7.5	0.22	1.25	0.036
23838	4.1	0.12	.34	0.010
23839	4.4	0.13	.26	0.008
23840	2.0	0.06	.10	0.003
23841	3.9	0.11	.19	0.006
23842	3.7	0.11	.31	0.009
23843	1.6	0.05	.55	0.016
23844	1.8	0.05	.40	0.012
23845	2.4	0.07	.48	0.014
23846	0.1	0.01	.07	0.002
23847	0.1	0.01	.06	0.002
23848	0.4	0.01	.55	0.016
23849	0.2	0.01	.30	0.009
23850	0.5	0.01	.31	0.009
23851	0.1	0.01	.18	0.005
23852	0.2	0.01	.32	0.009
23853	1.6	0.05	1.20	0.035
23854	3.7	0.11	3.25	0.095
23855	2.0	0.06	.84	0.025
23856	4.3	0.13	.48	0.014

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Company: MULTINATIONAL RESOURCES
Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-713
Date: SEPT. 2/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
23857	10.3	0.30	.07	0.002
23858	7.9	0.23	.31	0.009
23859	7.0	0.20	.90	0.026
23860	3.8	0.11	.19	0.006
23861	0.3	0.01	.04	0.001
23862	1.9	0.06	.23	0.007
23863	3.0	0.09	.38	0.011
23864	4.7	0.14	2.00	0.058
23865	2.8	0.08	1.17	0.034
23866	0.6	0.02	.10	0.003
23867	4.5	0.13	.16	0.005
23868	4.1	0.12	.08	0.002
23869	10.0	0.29	.32	0.009
23870	3.3	0.10	.03	0.001
23871	3.2	0.09	.17	0.005
23872	22.5	0.66	6.24	0.182
23873	15.1	0.44	5.60	0.163
23874	19.2	0.56	.35	0.010
23875	6.0	0.18	.32	0.009
23876	4.3	0.13	.09	0.003

Certified by



MIN-EN LABORATORIES LTD.

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Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY


Company: MULTINATIONAL RESOURCES
Project: CHAPPELLE
Attention: WM. CLANCEY

File: 6-726
Date: SEPT. 3/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
23877	0.5	0.01	.04	0.001
23878	0.3	0.01	.01	0.001
23879	2.2	0.06	.01	0.001
23880	0.2	0.01	.02	0.001
23881	2.0	0.06	.03	0.001
23882	2.8	0.08	.08	0.002
23883	4.7	0.14	.25	0.007
23884	2.1	0.06	.29	0.008
23885	0.6	0.02	2.23	0.065
23886	1.9	0.06	3.05	0.089
23887	2.0	0.06	1.76	0.051
23888	6.2	0.18	8.73	0.255
23889	91.0	2.65	20.73	0.605
23890	70.5	2.06	6.00	0.175
23891	13.8	0.40	5.19	0.151
23892	223.0	6.50	103.00	3.004
23893	287.0	8.37	121.90	3.555
23894	19.7	0.57	4.40	0.128
23895	3.8	0.11	.67	0.020
23896	4.4	0.13	1.03	0.030
23897	60.8	1.77	24.60	0.718
23898	11.3	0.33	6.42	0.187
23899	17.9	0.52	49.00	1.429
23900	30.0	0.88	124.90	3.643
23901	4.1	0.12	1.64	0.048
23902	2.6	0.08	.56	0.016
23903	2.0	0.06	.13	0.004

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