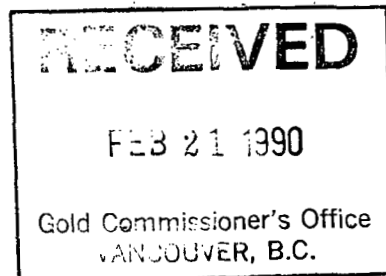


LOG NO:	0228	RD.
ACTION:		
FILE NO:		

**MINERAL EXPLORATION REPORT  
GEOPHYSICAL PROGRAM  
1989**

**OWNER: DANIEL G. WORT  
SKAGIT PROJECT  
CLAIMS: VANWOR, CLAIRE  
NEW WESTMINSTER MINING DIVISION  
HOPE, BRITISH COLUMBIA  
NTS: 92H3E**



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,715**

**PREPARED BY: JOHN A. CHAPMAN, P.ENG.  
DATE: FEBRUARY 7, 1990  
RE: "ASSESSMENT REPORT" TO BRITISH COLUMBIA MINISTRY  
OF ENERGY, MINES AND PETROLEUM RESOURCES**

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## INTRODUCTION

Daniel Wort's Skagit project consists of the Vanwor mineral claim and the Claire mineral claim, located near the "Skagit Bluffs" at 23-Mile on the Hope Princeton Highway in the New Westminster Mining Division. The project area is accessible by a two kilometre foot path from the Forestry campsite at the confluence of the Skagit River and the Sumallo River.

The project area is near the Canam Copper (A.M.) and Silver Daisy mineral discoveries, in an area known for copper, silver, zinc and lead mineralization since 1911. The rocks in the study area consists mainly of Hozameen Group cherts and argillites and minor younger diorite intrusives.

John Chapman Snr. and Jim Wort explored this area during the 1960s and 1970s by way of surface prospecting, prospecting adits and limited diamond drilling. Narrow silver and copper rich veins were located in several places on the property according to John Chapman Snr. (father of the author of this report) but no systematic record was maintained for this work. The late Jim Wort is the father of Daniel Wort current recorded owner of the Claire and Vanwor mineral claims.

Annual Work Approval #89-377-103 was issued for the Skagit Project by the Ministry of Energy Mines and Petroleum Resources, Engineering and Inspection Branch, Naniamo B.C. on October 2, 1989. Notice of 1989 project completion was submitted to the Inspection Branch by the author on October 31, 1989.

## SUMMARY

The Geophysical program conducted in 1989 consisted of 4100 line meters, with Magnetometer and VLF-EM readings taken every 10 meters along each survey line. Small but significant anomalies were identified. The survey results warrant further exploration to determine if the source of the anomalies is economic sulfide mineralization.

## PROPERTY INFORMATION, DESCRIPTION:

Daniel G. Wort is the recorded owner of the Vanwor (20 units) and the Claire (5 units) mineral claims, record number 3501 and 3500 respectively, at 23-Mile of the Hope Princeton highway, in the New Westminster Mining Division. The owner refers to the claim area as the "Skagit Project". Reference figure 1 for a map of the project mineral claims. The claims border on Manning Park which is located to the north and west, and also borders on Recreation Area O/C 1711, 86-09-19 located to the south. The A.M. copper deposit, operated by Bethlehem Resources Corporation, is located four kilometres to the southeast.

## PROPERTY INFORMATION, PHYSIOGRAPHY:

The Skagit River and its tributaries occupy deeply cut valleys in an uplifted plateau, which glaciation and stream erosion have carved into rugged mountains. The project area is located in the upper Skagit watershed, where the valley is very narrow with steep



sides. Within the project area, surface elevations vary from 750 meters at the Skagit River to 1500 meters on the northwest slope of Silverdaisy Mountain. The valley bottom and low benches along the valley are composed of gravel and sand. The area is heavily vegetated with mature trees, cedar and fir being the most abundant.

#### **PROPERTY INFORMATION, ACCESS:**

Access is by way of a two kilometre foot-path from the British Columbia Forest Service Campsite located at 23-Mile on the Hope Princeton Highway. The foot-path commences at the confluence of the Skagit River and the Sumallo River and follows the southeast embankment of the Skagit River in a northeasterly direction. The main survey point (station 5000N,5000E) for the 1989 geophysical survey is located within the Claire Mineral claim at a large tree-stump 50 meters @ 290d azimuth from the Chapman/Wort adit. The Chapman/Wort adit is located at a small stream in a rock outcrop on the southeast of a clear-cut, 10 meters above the Skagit River valley.

#### **EXPLORATION HISTORY:**

The Skagit area was explored for precious metals at the turn of the century, with the greatest activity in the 23-Mile Camp in 1911. Chapman/Wort worked the Vanwor and Claire claim area during the 1960s and 1970s. Their physical exploration work is recorded at the New Westminster Gold Commissioner's office.

#### **CURRENT GEOPHYSICAL PROGRAM, OBJECTIVE:**

The objective of the geophysical survey was to explore areas with mineral potential that were covered by alluvial and glaciofluvial deposits near the valley floor. Outcrop in the study area is limited to about 15% and in the areas of outcrop there are several narrow veins mineralized with sulfides. John Chapman Snr. had reported (personal communication) that a 1960s diamond drilling effort in a small silicified and pyrite rich outcrop, 150 meters north of the Chapman/Wort adit, had intersected several feet of sulfides at about 80 feet depth, with only sludge recovered. No assays were taken of the sludge.

#### **CURRENT GEOPHYSICAL PROGRAM, THEORY:**

A study of the area and of related historical mineral information by the author led to the theory that mineral exploration of the area near the valley bottom could best be advanced using modern geophysical techniques. Magnetic and VLF-EM were determined to be the most cost-effective techniques to be employed at this stage of property development.

#### **CURRENT GEOPHYSICAL PROGRAM, EQUIPMENT:**

Modern geophysical instruments used for the survey were: (1) Geometrics portable proton magnetometer, model G 816 and, (2) Phoenix VLF-2 instrument.

**CURRENT GEOPHYSICAL PROGRAM, PROCEDURES:**

The 4100 meters of survey lines were established with the aid of compass and hip-chain. The magnetometer readings were corrected by looping lines back to prior stations at least every hour. Total magnetic field readings are reported in gammas and are presented in Map B in the pocket. The VLF-EM unit was set to receive 21.4 KHz from Annapolis, Maryland. The direction to the Annapolis transmitter was nearly parallel with the strike of known mineralized veins in the study area. The plotted data for the VLF-EM was filtered using the standard "Fraser" technique and is presented in Map A in the pocket. The VLF-EM dip convention was negative for south and positive for north.

Some general prospecting was conducted in conjunction with the geophysical survey; several rock samples were submitted for geochemical analysis.

**CURRENT GEOPHYSICAL PROGRAM, RESULTS:**

There is a well defined coincidental magnetic and VLF-EM anomaly over the silicified pyritic outcrop drilled in the 1960's by Chapman/Wort at and near 5150N,5000E. Other smaller VLF-EM anomalies occur near 5355N,5235E and 5480N,5260E. Small Magnetic anomalies occur near 4740N,4920E and 5710N,5210E. The anomalous areas are covered with overburden except for one small silicified pyritic outcrop at the above mentioned drill-site.

**CURRENT GEOPHYSICAL PROGRAM, DISCUSSION:**

The main VLF-EM anomaly may be the result of sulfides. However, some graphite does occur in metamorphic rocks near the portal of the Chapman/Wort adit, and this mineral could cause a significant VLF-EM response. All other anomalies occur over alluvial and glaciofluvial cover so no judgement can be made as to a reason for the positive response. The overburden cover is greatest on the bench approximately 250 meters east of the river. Hence, there is probably considerable "masking" of magnetic and VLF-EM signals on the most easterly survey line which follows the top of the bench. Outcrops in the survey area that are mineralized with sulfides contain more pyrrhotite than magnetite, hence magnetic highs may be related to pyrrhotite concentration.

**CONCLUSIONS:**

The survey demonstrated that there is a significant area of potential sulfide mineralization 150 meters north of the Chapman/Wort adit near the old 1960 drill-site.

Assays from some of rock samples within the project area indicate the tenor of the ore grade mineralization is mainly copper, lead, zinc, silver and gold. Some samples are highly anomalous in arsenic.

**RECOMMENDATIONS:**

The geophysical anomalies identified in the 1989 survey should be prospected by hand-trenching and soil/rock sampling. The areas

around the anomalies should be mapped and sampled wherever outcrop is available. Also, a soil sampling program should be considered but regard will have to be given to the surface disturbance caused by glaciation, stream action and gravity on the steep slopes. Contingent upon the success of the above programs a modest small diameter drill program should be considered in the main anomaly near the old drill-site.

**STATEMENT OF COSTS:**

Mob/demob	\$ 250
Personnel (note 1)	3,150
Meals	180
Geophysical equipment (note 2)	100
Geoanalyses	320
Report preparation	500
<b>TOTAL EXPLORATION EXPENDITURES</b>	<b>\$4,500</b>

Notes:

(1) The crew during the four day program included John Chapman B.Sc., P.Eng, Project Manager; Daniel Wort, B.A. Field Assistant and Robert Chapman B.Sc., Field Assistant.

(2) Rental of Phoenix VLF-2 instrument and Geometrics portable proton magnetometer model G 816.

**STATEMENT OF QUALIFICATIONS:**

I John Arthur Chapman of the City of Surrey, Province of British Columbia, Canada hereby certify as follows:

- (1) I am a mining engineer residing at #30 1725 Southmere Cr., Surrey, British Columbia and,
- (2) I graduated with honours in Mining Technology from the British Columbia Institute of Technology, June 1967 and,
- (3) I graduated with honours in Mining Engineering (B.Sc.) from the Colorado School of Mines, January 1971 and,
- (4) I am a Professional Engineer registered in the Province of British Columbia since 1973 and,
- (5) I have practised my profession continuously since 1973 in Canada, United States and Philippines and,
- (6) I hold an interest in the Claire and Vanwor mineral claims, which are the subject of this report and,
- (7) I am the author of this report, which is based on work on the Skagit Project, which I personally supervised during 1989.

Dated at Vancouver, B.C. this 7th day of February 1990.



John Arthur Chapman, B.Sc., P.Eng.

APPENDIX A

VLF-EM & MAGNETIC DATA



SKAGIT MINERAL EXPLORATION PROJECT, VLF-EM SURVEY & MAGNETOMETER SURVEY, 1989

PAGE 1 OF 8  
J.A.L. 9/02/07

HORIZONTAL			SLP VERTICAL				HORZ			VLF-EM			FRASER		FINAL			DATA*****			
DEG	MIN	SEC	DECDEG	RADIANS	DIST	DECDEG	DIST	NDIST	EDIST	NCOOR	ECOOR	STN	DIP	SUM	FILTER	MAG	ADJUST	MAG	*****PLOT		
										5000	5000										
290	0	0	290.00	2.79	50	0	50	17.10	-46.98	5017.10	4953.02	0	0	0	0	56827	0	56827	5017	4953	0 56827
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	5008.35	4948.17	10	0	0	0	56836	0	56836	5008	4948	0 56836
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4999.61	4943.32	20	0	0	0	56854	0	56854	5000	4943	0 56854
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4990.86	4938.47	30	0	0	0	56673	0	56673	4991	4938	0 56673
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4982.12	4933.62	40	0	0	-2	56780	0	56780	4982	4934	-2 56780
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4973.37	4928.77	50	0	-2	-6	56789	0	56789	4973	4929	-6 56789
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4964.62	4923.93	60	-2	-6	-8	56772	0	56772	4964	4924	-8 56772
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4955.88	4919.08	70	-4	-10	-4	56747	0	56747	4956	4919	-4 56747
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4947.13	4914.23	80	-6	-10	-2	56812	0	56812	4947	4914	-2 56812
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4938.39	4909.38	90	-4	-12	-6	56799	0	56799	4938	4909	-6 56799
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4929.64	4904.53	100	-8	-16	-4	56786	0	56786	4930	4905	-4 56786
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4920.89	4899.69	110	-8	-16	4	56816	0	56816	4921	4900	4 56816
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4912.15	4894.84	120	-8	-12	8	56836	0	56836	4912	4895	8 56836
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4903.40	4889.99	130	-4	-8	6	56846	0	56846	4903	4890	6 56846
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4894.65	4885.14	140	-4	-6	6	56851	0	56851	4895	4885	6 56851
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4885.91	4880.29	150	-2	-2	7	56848	0	56848	4886	4880	7 56848
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4877.16	4875.45	160	0	1	7	56826	0	56826	4877	4875	7 56826
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4868.42	4870.60	170	1	5	9	56839	0	56839	4868	4871	9 56839
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4859.67	4865.75	180	4	10	7	56842	0	56842	4860	4866	7 56842
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4850.92	4860.90	190	6	12	0	56860	0	56860	4851	4861	0 56860
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4842.18	4856.05	200	6	10	-4	56932	0	56932	4842	4856	-4 56932
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4833.43	4851.21	210	4	8	-4	56905	0	56905	4833	4851	-4 56905
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4824.68	4846.36	220	4	6	-4	56860	0	56860	4825	4846	-4 56860
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4815.94	4841.51	230	2	4	0	56836	0	56836	4816	4842	0 56836
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4807.19	4836.66	240	2	6	6	56801	0	56801	4807	4837	6 56801
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4798.45	4831.81	250	4	10	6	56793	0	56793	4798	4832	6 56793
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4789.70	4826.96	260	6	12	-2	56806	0	56806	4790	4827	-2 56806
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4780.95	4822.12	270	6	8	-10	56818	0	56818	4781	4822	-10 56818
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4772.21	4817.27	280	2	2	-8	56821	0	56821	4772	4817	-8 56821
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4763.46	4812.42	290	0	0	-2	56826	0	56826	4763	4812	-2 56826
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4754.72	4807.57	300	0	0	0	56824	0	56824	4755	4808	0 56824
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4745.97	4802.72	310	0	0	0	56837	0	56837	4746	4803	0 56837
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4737.22	4797.88	320	0	0	0	56842	0	56842	4737	4798	0 56842
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4728.48	4793.03	330	0	0	0	56836	0	56836	4728	4793	0 56836
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4719.73	4788.18	340	0	0	-4	56840	0	56840	4720	4788	-4 56840
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4710.98	4783.33	350	0	-4	-10	56840	0	56840	4711	4783	-10 56840
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4702.24	4778.48	360	-4	-10	-6	56844	0	56844	4702	4773	-6 56844
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4693.49	4773.64	370	-6	-10	2	56837	0	56837	4693	4774	2 56837
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4684.75	4768.79	380	-4	-8	0	56832	0	56832	4685	4769	0 56832
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4676.00	4763.94	390	-4	-10	-4	56829	0	56829	4676	4761	-4 56829
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4667.25	4759.09	400	-6	-12	-2	56837	0	56837	4667	4759	-2 56837
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4658.51	4754.24	410	-6	-12	-2	56829	0	56829	4659	4754	-2 56829
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4649.76	4749.40	420	-6	-14	-4	56850	0	56850	4650	4749	-4 56850
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4641.01	4744.55	430	-8	-16	-4	56864	0	56864	4641	4745	-4 56864
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4632.27	4739.70	440	-8	-18	-2	56864	0	56864	4632	4740	-2 56864
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4623.52	4734.85	450	-10	-18	2	56864	0	56864	4624	4735	2 56864
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4614.78	4730.00	460	-8	-16	4	56862	0	56862	4615	4730	4 56862
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4606.03	4725.15	470	-8	-14	4	56845	0	56845	4606	4725	4 56845
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4597.28	4720.31	480	-6	-12	2	56866	0	56866	4597	4720	2 56866
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4588.54	4715.46	490	-6	-12	0	56846	0	56846	4589	4715	0 56846

Note:  
STN 5000/5000 IS  
LOCATED AT PORTAL OF  
CHAPMAN/WORT ADIT,  
AT SOUTHEAST SIDE  
OF CLEARCUT ON CLAIRE  
CLAIM- OPPOSITE C.G.  
LOT 1500. ADIT IS ON  
THE EAST SIDE OF  
SKAGIT RIVER.  
J.A.L.

209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4579.79	4710.61	500	-6	-12	0	56868	0	56868	4580	4711	0	56868
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4571.04	4705.76	510	-6	-12	0	56835	0	56835	4571	4706	0	56835
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4562.30	4700.91	520	-6	-12	2	56850	0	56850	4562	4701	2	56850
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4553.55	4696.07	530	-6	-10	0	56851	0	56851	4554	4696	0	56851
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4544.81	4691.22	540	-4	-12	0	56858	0	56858	4545	4691	0	56858
209	0	0	209.00	4.21	10	0	10	-8.75	-4.85	4536.06	4686.37	550	-8	0	0	56831	0	56831	4536	4686	0	56831
299	0	0	299.00	2.64	70	38	55	26.74	-48.24	4562.80	4638.13	550	-6			56831	0	56831	4563	4638	0	56831
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4571.55	4642.97	540	-4	-10		56867	0	56867	4572	4643		56867
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4580.30	4647.82	530	-6	-10	0	56857	0	56857	4580	4648	0	56857
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4589.04	4652.67	520	-4	-10	-2	56830	0	56830	4589	4653	-2	56830
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4597.79	4657.52	510	-4	-8	-2	56860	0	56860	4598	4658	-2	56860
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4606.53	4662.37	500	-4	-8	-2	56813	0	56813	4607	4662	-2	56813
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4615.28	4667.21	490	-2	-6	-4	56839	0	56839	4615	4667	-4	56839
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4624.03	4672.06	480	-2	-4	-2	56848	0	56848	4624	4672	-2	56848
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4632.77	4676.91	470	-2	-4	2	56852	0	56852	4633	4677	2	56852
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4641.52	4681.76	460	-4	-6	2	56844	0	56844	4642	4682	2	56844
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4650.26	4686.61	450	-2	-6	0	56843	0	56843	4650	4687	0	56843
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4659.01	4691.45	440	-4	-6	2	56854	0	56854	4659	4691	2	56854
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4667.76	4696.30	430	-4	-8	0	56848	0	56848	4668	4696	0	56848
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4676.50	4701.15	420	-2	-6	-4	56864	0	56864	4677	4701	-4	56864
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4685.25	4706.00	410	-2	-4	-4	56850	0	56850	4685	4706	-4	56850
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4694.00	4710.85	400	0	-2	-4	56842	0	56842	4694	4711	-4	56842
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4702.74	4715.69	390	0	0	-2	56831	0	56831	4703	4716	-2	56831
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4711.49	4720.54	380	0	0	2	56857	0	56857	4711	4721	2	56857
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4720.23	4725.39	370	-2	-2	2	56842	0	56842	4720	4725	2	56842
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4728.98	4730.24	360	0	-2	-2	56840	0	56840	4729	4730	-2	56840
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4737.73	4735.09	350	0	0	-2	56836	0	56836	4738	4735	-2	56836
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4746.47	4739.94	340	0	0	0	56840	0	56840	4746	4740	0	56840
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4755.22	4744.78	330	0	0	0	56838	0	56838	4755	4745	0	56838
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4763.97	4749.63	320	0	0	0	56838	0	56838	4764	4750	0	56838
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4772.71	4754.48	310	0	0	0	56859	0	56859	4773	4754	0	56859
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4781.46	4759.33	300	0	0	0	56863	0	56863	4781	4759	0	56863
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4790.20	4764.18	290	0	0	0	56838	0	56838	4790	4764	0	56838
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4798.95	4769.02	280	0	0	0	56850	0	56850	4799	4769	0	56850
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4807.70	4773.87	270	0	0	0	56830	0	56830	4808	4774	0	56830
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4816.44	4778.72	260	0	0	0	56840	0	56840	4816	4779	0	56840
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4825.19	4783.57	250	0	0	0	56851	0	56851	4825	4784	0	56851
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4833.93	4788.42	240	0	0	-2	56857	0	56857	4834	4788	-2	56857
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4842.68	4793.26	230	2	2	-2	56856	0	56856	4843	4793	-2	56856
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4851.43	4798.11	220	0	2	2	56870	0	56870	4851	4798	2	56870
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4860.17	4802.96	210	0	0	0	56869	0	56869	4860	4803	0	56869
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4868.92	4807.81	200	2	2	-4	56874	0	56874	4869	4809	-4	56874
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4877.67	4812.66	190	2	4	-2	56882	0	56882	4878	4813	-2	56882
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4886.41	4817.50	180	2	4	2	56877	0	56877	4886	4818	2	56877
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4895.16	4822.35	170	0	2	4	56887	0	56887	4895	4822	4	56887
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4903.90	4827.20	160	0	0	2	56859	0	56859	4904	4827	2	56859
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4912.65	4832.05	150	0	0	0	56859	0	56859	4913	4832	0	56859
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4921.40	4836.90	140	0	0	0	56868	0	56868	4921	4837	0	56868
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4930.14	4841.75	130	0	0	0	56858	0	56858	4930	4842	0	56858
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4938.89	4846.59	120	0	0	0	56855	0	56855	4939	4847	0	56855
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4947.64	4851.44	110	0	0	0	56842	0	56842	4948	4851	0	56842
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4956.38	4856.29	100	0	0	-2	56852	0	56852	4956	4856	-2	56852
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4965.13	4861.14	90	2	2	-2	56833	0	56833	4965	4861	-2	56833
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4973.87	4865.99	80	0	2	2	56840	0	56840	4974	4866	2	56840
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4982.62	4870.83	70	0	0	2	56842	0	56842	4983	4871	2	56842
29	0	0	29.00	7.35	10	0	10	8.75	4.85	4991.37	4875.68	60	0	0	0	56838	0	56838	4991	4876	0	56838

29	0	0	29.00	7.35	10	0	10	8.75	4.85	5000.11	4880.53	50	0	0	0	56822	0	56822	5000	4881	0	56822
29	0	0	29.00	7.35	10	0	10	8.75	4.85	5008.86	4885.38	40	0	0	0	56807	0	56807	5009	4885	0	56807
29	0	0	29.00	7.35	10	0	10	8.75	4.85	5017.60	4890.23	30	0	0	0	56827	0	56827	5018	4890	0	56827
119	0	0	119.00	5.78	70	0	70	-33.94	61.22	4983.67	4951.45	0				56829	0	56829	4984	4951	0	56829
										5017.00	4953.02					56841		56841	5017	4953	0	56841
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5026.51	4956.11	10	2	2		56846	1	56847	5027	4956	0	56847
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5036.02	4959.20	20	4	6	-8	56835	1	56836	5036	4959	-8	56836
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5045.53	4962.29	30	6	10	-4	56821	2	56823	5046	4962	-4	56823
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5055.04	4965.38	40	4	10	2	56810	3	56813	5055	4965	2	56813
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5064.55	4968.47	50	4	8	0	56854	3	56857	5065	4968	0	56857
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5074.06	4971.56	60	6	10	-6	56842	4	56846	5074	4972	-6	56846
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5083.57	4974.65	70	8	14	-6	56852	5	56857	5084	4975	-6	56857
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5093.08	4977.74	80	8	16	2	56896	6	56902	5093	4978	2	56902
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5102.60	4980.83	90	4	12	12	57004	6	57010	5103	4981	12	57010
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5112.11	4983.92	100	0	4	16	56819	7	56826	5112	4984	16	56826
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5121.62	4987.01	110	-4	-4	14	56806	8	56814	5122	4987	14	56814
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5131.13	4990.10	120	-6	-10	18	56855	8	56863	5131	4990	18	56863
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5140.64	4993.19	130	-16	-22	22	56700	9	56709	5141	4993	22	56709
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5150.15	4996.28	140	-16	-32	7	56728	10	56738	5150	4996	7	56738
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5159.66	4999.37	150	-13	-29	-10	56744	10	56754	5160	4999	-10	56754
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5169.17	5002.46	160	-9	-22	-12	56756	11	56767	5169	5002	-12	56767
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5178.68	5005.55	170	-8	-17	-8	56759	12	56771	5179	5006	-8	56771
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5188.19	5008.64	180	-6	-14	-6	56765	13	56778	5188	5009	-6	56778
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5197.70	5011.73	190	-5	-11	-6	56761	13	56774	5198	5012	-6	56774
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5207.21	5014.82	200	-3	-8	-8	56785	14	56799	5207	5015	-8	56799
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5216.72	5017.91	210	0	-3	-10	56759	15	56774	5217	5018	-10	56774
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5226.23	5021.00	220	2	2	-6	56785	15	56800	5226	5021	-6	56800
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5235.74	5024.09	230	1	3	0	56792	16	56808	5236	5024	0	56808
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18	0	0	18.00	7.54	10	0	10	9.51	3.09	5254.76	5030.27	250	2	3	-2	56822	17	56839	5255	5030	-2	56839
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5264.27	5033.36	260	2	4	-1	56802	18	56820	5264	5033	-1	56820
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5273.79	5036.45	270	2	4	4	56822	19	56841	5274	5036	4	56841
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5283.30	5039.54	280	-2	0	10	56828	19	56847	5283	5040	10	56847
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5292.81	5042.63	290	-4	-6	10	56822	20	56842	5293	5043	10	56842
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5302.32	5045.73	300	-6	-10	6	56812	21	56833	5302	5046	6	56833
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5311.83	5048.82	310	-6	-12	1	56796	22	56818	5312	5049	1	56818
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5321.34	5051.91	320	-5	-11	-5	56814	22	56836	5321	5052	-5	56836
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5330.85	5055.00	330	-2	-7	-9	56853	23	56876	5331	5055	-9	56876
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5340.36	5058.09	340	0	-2	-7	56861	24	56885	5340	5058	-7	56885
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5349.87	5061.18	350	0	0	-2	56843	24	56867	5350	5061	-2	56867
18	0	0	18.00	7.54	10	0	10	9.51	3.09	5359.38	5064.27	360	0	0	0	56828	25	56853	5359	5064	0	56853
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5367.04	5070.69	370	0	0	-2	56829	26	56855	5367	5071	-2	56855
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5374.70	5077.12	380	2	2	-6	56825	26	56851	5375	5077	-6	56851
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40	0	0	40.00	7.16	10	0	10	7.66	6.43	5390.02	5089.98	400	3	7	1	56773	28	56801	5390	5090	1	56801
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5397.68	5096.41	410	2	5	5	56807	29	56836	5398	5096	5	56836
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40	0	0	40.00	7.16	10	0	10	7.66	6.43	5413.00	5109.26	430	2	2	0	56877	30	56907	5413	5109	0	56907
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5420.66	5115.69	440	0	2	-1	56900	31	56931	5421	5116	-1	56931
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5430.66	5115.69	450	3	3	-1	56894	31	56925	5431	5116	-1	56925
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5440.66	5115.69	460	0	3	3	56891	32	56923	5441	5116	3	56923
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5450.66	5115.69	470	0	0	3	56902	33	56935	5451	5116	3	56935
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5460.66	5115.69	480	0	0	0	56838	33	56871	5461	5116	0	56871
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5470.66	5115.69	490	0	0	-2	56777	34	56811	5471	5116	-2	56811
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5480.66	5115.69	500	2	2	-4	56815	35	56850	5481	5116	-4	56850
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5490.66	5115.69	510	2	4	0	56802	35	56837	5491	5116	0	56837

360	0	0	360.00	1.57	10	0	10	10.00	0.00	5500.66	5115.69	520	0	2	4	56831	36	56867	5501	5116	4	56867
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5510.66	5115.69	530	0	0	1	56794	37	56831	5511	5116	1	56831
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5520.66	5115.69	540	1	1	-4	56794	38	56832	5521	5116	-4	56832
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5530.66	5115.69	550	3	4	-5	56790	38	56828	5531	5116	-5	56828
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5540.66	5115.69	560	3	6	-2	56813	39	56852	5541	5116	-2	56852
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5550.66	5115.69	570	3	6	1	56834	40	56874	5551	5116	1	56874
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5560.66	5115.69	580	2	5	3	56827	40	56867	5561	5116	3	56867
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5570.66	5115.69	590	1	3	2	56852	41	56893	5571	5116	2	56893
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5580.66	5115.69	600	2	3	0	56836	42	56878	5581	5116	0	56878
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5590.66	5115.69	610	1	3	0	56857	42	56899	5591	5116	0	56899
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5598.32	5122.12	620	2	3	1	56849	43	56892	5598	5122	1	56892
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5605.98	5128.54	630	0	2	0	56859	44	56903	5606	5129	0	56903
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5613.65	5134.97	640	3	3	-3	56850	45	56895	5614	5135	-3	56895
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5621.31	5141.40	650	2	5	-2	56852	45	56897	5621	5141	-2	56897
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5628.97	5147.83	660	3	5	1	56929	46	56975	5629	5148	1	56975
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5636.63	5154.26	670	1	4	4	56936	47	56983	5637	5154	4	56983
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5644.29	5160.68	680	0	1	4	56941	47	56988	5644	5161	4	56988
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5651.95	5167.11	690	0	0	2	56902	48	56950	5652	5167	2	56950
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5659.61	5173.54	700	-1	-1	4	56937	49	56986	5660	5174	4	56986
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5667.27	5179.97	710	-3	-4	5	56916	49	56965	5667	5180	5	56965
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5674.93	5186.40	720	-3	-6	5	56931	50	56981	5675	5186	5	56981
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5682.59	5192.82	730	-6	-9	6	56918	51	56969	5683	5193	6	56969
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5690.25	5199.25	740	-6	-12	1	56908	52	56960	5690	5199	1	56960
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5697.91	5205.68	750	-4	-10	-4	56917	52	56969	5698	5206	-4	56969
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5705.57	5212.11	760	-4	-8	-2	56997	53	57050	5706	5212	-2	57050
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5713.23	5218.54	770	-4	-8	0	56971	54	57025	5713	5219	0	57025
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5720.89	5224.96	780	-4	-8	1	56897	54	56951	5721	5225	1	56951
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															PAGE 5 OF 8							
40	0	0	40.00	7.16	10	0	10	7.66	6.43	5950.70	5417.80	1080	0	3	7	56850	75	56925	5951	5418	7	56925
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15	0	0	15.00	7.59	10	0	10	9.66	2.59	5123.35	5096.60	110	-2	-5	-3	55919	986	56905	5123	5097	-3	56905
15	0	0	15.00	7.59	10	0	10	9.66	2.59	5133.01	5099.19	120	-2	-4	-1	55936	986	56922	5133	5099	-1	56922
15	0	0	15.00	7.59	10	0	10	9.66	2.59	5142.67	5101.78	130	-2	-4	-2	55956	986	56942	5143	5102	-2	56942
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5149.10	5109.44	140	0	-2	-4	55936	986	56922	5149	5109	-4	56922
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5155.53	5117.10	150	0	0	-2	55923	986	56909	5156	5117	-2	56909
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5161.95	5124.76	160	0	0	0	55906	986	56892	5162	5125	0	56892
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5168.38	5132.42	170	0	0	0	55886	986	56872	5168	5132	0	56872
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5174.81	5140.08	180	0	0	-2	55885	986	56871	5175	5140	-2	56871
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5181.24	5147.74	190	2	2	-5	55900	986	56886	5181	5148	-5	56886
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5187.67	5155.40	200	3	5	-4	55892	986	56878	5188	5155	-4	56878
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5194.09	5163.06	210	3	6	-2	55903	986	56889	5194	5163	-2	56889
50	0	0	50.00	6.98	10	0	10	6.43	7.66	5200.52	5170.72	220	4	7	-2	55921	986	56907	5201	5171	-2	56907
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5209.43	5175.26	230	4	8	-1	55927	986	56913	5209	5175	-1	56913
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5218.34	5179.80	240	4	8	0	55914	986	56900	5218	5180	0	56900
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5227.25	5184.34	250	4	8	0	55910	986	56896	5227	5184	0	56896
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5236.16	5188.88	260	4	8	0	55915	986	56901	5236	5189	0	56901
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5245.07	5193.42	270	4	8	-1	55877	986	56863	5245	5193	-1	56863
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5253.98	5197.96	280	5	9	-2	55879	986	56865	5254	5198	-2	56865
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5262.89	5202.50	290	5	10	-1	55870	986	56856	5263	5203	-1	56856
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5271.80	5207.04	300	5	10	-1	55880	986	56866	5272	5207	-1	56866
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5280.71	5211.58	310	6	11	-3	55883	986	56869	5281	5212	-3	56869
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5289.62	5216.12	320	7	13	-4	55888	986	56874	5290	5216	-4	56874
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5298.53	5220.66	330	8	15	-3	55912	986	56898	5299	5221	-3	56898

27	0	0	27.00	7.38	10	0	10	8.91	4.54	5307.44	5225.20	340	8	16	-2	55923	986	56909	5307	5225	-2	56909	
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5316.35	5229.74	350	9	17	-2	55953	986	56939	5316	5230	-2	56939	
27	0	0	27.00	7.38	10	0	10	8.91	4.54	5325.26	5234.28	360	9	18	4	55974	986	56960	5325	5234	4	56960	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5335.26	5234.28	370	4	13	13	55939	986	56925	5335	5234	13	56925	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5345.26	5234.28	380	1	5	11	55887	986	56873	5345	5234	11	56873	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5355.26	5234.28	390	1	2	-1	55874	986	56860	5355	5234	-1	56860	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5365.26	5234.28	400	5	6	-9	55857	986	56843	5365	5234	-9	56843	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5375.26	5234.28	410	6	11	-4	55854	986	56840	5375	5234	-4	56840	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5385.26	5234.28	420	4	10	7	55861	986	56847	5385	5234	7	56847	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5395.26	5234.28	430	0	4	10	55821	986	56807	5395	5234	10	56807	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5405.26	5234.28	440	0	0	4	55852	986	56838	5405	5234	4	56838	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5415.26	5234.28	450	0	0	0	55875	986	56861	5415	5234	0	56861	
360	0	0	360.00	1.57	10	0	10	10.00	0.00	5425.26	5234.28	460	0	0	1	55917	986	56903	5425	5234	1	56903	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5434.40	5238.35	470	-1	-1	0	55909	986	56895	5434	5238	0	56895	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5443.53	5242.42	480	1	0	-6	55854	986	56840	5443	5242	-6	56840	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5452.67	5246.49	490	4	5	-12	55864	986	56850	5452	5246	-12	56850	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5461.80	5250.55	500	8	12	-15	55795	986	56781	5461	5251	-15	56781	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5470.94	5254.62	510	12	20	-11	55828	986	56814	5470	5255	-11	56814	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5480.07	5258.69	520	11	23	8	55854	986	56840	5480	5259	8	56840	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5489.21	5262.75	530	1	12	30	55833	986	56819	5489	5263	30	56819	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5498.35	5266.82	540	-8	-7	28	55764	986	56750	5498	5267	28	56750	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5507.48	5270.89	550	-8	-16	6	55790	986	56776	5507	5271	6	56776	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5516.62	5274.96	560	-5	-13	-8	55823	986	56809	5516	5275	-8	56809	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5525.75	5279.02	570	-3	-8	-7	55784	986	56770	5525	5279	-7	56770	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5534.89	5283.09	580	-3	-6	-3	55725	986	56711	5534	5283	-3	56711	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5544.02	5287.16	590	-2	-5	2	55775	986	56761	5544	5287	2	56761	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5553.16	5291.23	600	-6	-8	8	55837	986	56823	5553	5291	8	56823	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5562.29	5295.29	610	-7	-13	7	55929	986	56915	5562	5295	7	56915	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5571.43	5299.36	620	-8	-15	3	55906	986	56892	5571	5299	3	56892	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5580.56	5303.43	630	-8	-16	1	55911	986	56897	5580	5303	1	56897	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5589.70	5307.50	640	-8	-16	-1	55890	986	56876	5589	5307	-1	56876	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5598.84	5311.56	650	-7	-15	-3	55888	986	56874	5598	5312	-3	56874	
24	0	0	24.00	7.44	10	0	10	9.14	4.07	5607.97	5315.63	660	-6	-13		55883	986	56869	5607	5316		56869	
										5017.10	5068.13									5017	5068		
166	0	0	166.00	4.96	10	0	10	-9.70	2.42	5007.40	5070.55	10	-12	-16	10	55929	986	56915	5007	5071	10	56915	
166	0	0	166.00	4.96	10	0	10	-9.70	2.42	4997.69	5072.97	20	-4	-8	9	55933	986	56919	4998	5073	9	56919	
166	0	0	166.00	4.96	10	0	10	-9.70	2.42	4987.99	5075.39	30	-4	-7	2	55926	986	56912	4988	5075	2	56912	
166	0	0	166.00	4.96	10	0	10	-9.70	2.42	4978.29	5077.81	40	-3	-6	1	55908	986	56894	4978	5078	1	56894	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4968.51	5075.73	50	-3	-6	0	55938	986	56924	4969	5076	0	56924	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4958.73	5073.65	60	-3	-6	3	55929	986	56915	4959	5074	3	56915	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4948.94	5071.57	70	-3	-3	6	55918	986	56904	4949	5072	6	56904	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4939.16	5069.49	80	0	0	3	55906	986	56892	4939	5069	3	56892	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4929.38	5067.41	90	0	0	0	55869	986	56855	4929	5067	0	56855	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4919.60	5065.33	100	0	0	0	55889	986	56875	4920	5065	0	56875	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4909.82	5063.25	110	0	0	3	55887	986	56873	4910	5063	3	56873	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4900.04	5061.17	120	0	3	8	55898	986	56884	4900	5061	8	56884	
192	0	0	192.00	4.50	10	0	10	-9.78	-2.08	4890.25	5059.09	130	3	8	6	55948	986	56934	4890	5059	6	56934	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4883.83	5051.43	140	5	9	-1	55924	986	56910	4884	5051	-1	56910	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4877.40	5043.77	150	4	7	-5	55915	986	56901	4877	5044	-5	56901	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4870.97	5036.11	160	3	4	-6	55899	986	56885	4871	5036	-6	56885	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4864.54	5028.45	170	1	1	-4	55886	986	56872	4865	5028	-4	56872	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4858.12	5020.79	180	0	0	-5	55890	986	56876	4858	5021	-5	56876	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4851.69	5013.13	190	0	-4	-8	55888	986	56874	4852	5013	-8	56874	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4845.26	5005.47	200	-4	-8	-4	55887	986	56873	4845	5005	-4	56873	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4838.83	4997.81	210	-4	-8	0	55882	986	56868	4839	4998	0	56868	
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4832.40	4990.15	220	-4	-8	0	55904	986	56890	4832	4990	0	56890	

230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4825.98	4982.49	230	-4	-8	0	55918	986	56904	4826	4982	0	56904
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4819.55	4974.83	240	-4	-8	0	55924	986	56910	4820	4975	0	56910
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4813.12	4967.17	250	-4	-8	1	55923	986	56909	4813	4967	1	56909
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4806.69	4959.51	260	-4	-7	2	55920	986	56906	4807	4960	2	56906
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4800.26	4951.85	270	-3	-6	3	55919	986	56905	4800	4952	3	56905
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4793.84	4944.19	280	-3	-4	4	55898	986	56884	4794	4944	4	56884
230	0	0	230.00	3.84	10	0	10	-6.43	-7.66	4787.41	4936.53	290	-1	-2	3	55897	986	56883	4787	4937	3	56883
200	0	0	200.00	4.36	10	0	10	-9.40	-3.42	4778.01	4933.11	300	-1	-1	2	55916	986	56902	4778	4933	2	56902
200	0	0	200.00	4.36	10	0	10	-9.40	-3.42	4768.62	4929.69	310	0	0	1	55940	986	56926	4769	4930	1	56926
200	0	0	200.00	4.36	10	0	10	-9.40	-3.42	4759.22	4926.27	320	0	0	0	55972	986	56958	4759	4926	0	56958
200	0	0	200.00	4.36	10	0	10	-9.40	-3.42	4749.82	4922.85	330	0	0	0	57023	986	58009	4750	4923	0	58009
200	0	0	200.00	4.36	10	0	10	-9.40	-3.42	4740.42	4919.43	340	0	0	1	57025	986	58011	4740	4919	1	58011
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4732.54	4913.27	350	0	1	3	57003	986	57989	4733	4913	3	57989
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4724.66	4907.11	360	1	3	2	55961	986	56947	4725	4907	2	56947
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4716.78	4900.96	370	2	3	0	55941	986	56927	4717	4901	0	56927
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4708.90	4894.80	380	1	3	-1	55926	986	56912	4709	4895	-1	56912
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4701.02	4888.64	390	2	2	-3	55905	986	56891	4701	4889	-3	56891
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4693.14	4882.49	400	0	0	-2	55889	986	56875	4693	4882	-2	56875
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4685.26	4876.33	410	0	0	0	55888	986	56874	4685	4876	0	56874
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4677.38	4870.17	420	0	0	2	55879	986	56865	4677	4870	2	56865
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4669.50	4864.02	430	0	2		55863	986	56849	4670	4864	0	56849
218	0	0	218.00	4.05	10	0	10	-7.88	-6.16	4661.62	4857.86	440	2			55867	986	56853	4662	4858	0	56853



**APPENDIX B**

**ROCK SAMPLE ANALYSES**

## SKAGIT PROJECT, ROCK SAMPLE DATA, 1989

J.A.C. 90/02/07

SAMPLE NUMBER	NORTH	EAST	ROCK TYPE	COMMENTS
JW 1	5050	5350	VEIN	10 CM VEIN IN ADIT ROOF, ADIT 12 METERS LONG.
JW 2	4995	5000	ARGILLITE	OUTCROP 5 METERS SOUTH OF CHAPMAN/WORT ADIT.
JAC-S1-01	5425	5125	VEIN	5 CM VEIN IN OLD ADIT EAST BANK OF SKAGIT, ADIT 9 METERS LONG.
JAC-S1-02	5430	5425	VEIN	20 CM VEIN IN CLIFF BY GULLY, ULTRABASIC INTRUSIVE INTO HOZAMEEN ROCKS.
JAC-S1-03	5050	5350	VEIN	UPPER ADIT (SEE JW 1).
JAC-S1-04	5460	5125	VEIN	4 CM VEIN IN HOZAMEEN CHERTS, EAST BANK OF SKAGIT.
JAC-S1-05	5460	5125	FLOAT QTZ	+10% PYRITE.
JAC-S1-06	4995	5000	ARGILLITE	CHAPMAN/WORT ADIT (SEE JW 2).
SK891022-01	5900	6700	ARGILLITE	SKAGIT BLUFFS BESIDE HIGHWAY
SK891022-02	5800	6700	CHERT	AT WATERFALL, NORTH SIDE OF SKAGIT.
SK891022-03	5850	6700	FLOAT	AT WATERFALL, SOUTH SIDE OF SKAGIT.
SK891022-04	5750	6700	ARGILLITE	SILICIFIED, PYRITE, ARSENOPYRITE.
SK891022-05	5700	6700	CHERT	SILICIFIED, ARSENOPYRITE.
SK891022-06	5700	6550	GABBRO	ABUNDANT DISSEMINATED ARSENOPYRITE.
SK891022-07	5700	6500	CHERT	SILICIFIED, PYRITE.
SK891022-08	5700	6450	CHERT	SILICIFIED, PYRITE.
SK891022-09	5650	6700	ACID INTR.	ABUNDANT DISSEMINATED ARSENOPYRITE.
SKLN40+660N	5950	5440	FLOAT	+10% PYRITE IN ARGILLITE HIGHLY SILICIFIED.
SKDRILLSITE	5130	5010	ARGILLITE	AT OLD DRILL SITE, OUTCROP BESIDE ROAD HIGHLY SILICIFIED AND +10% PYRITE.

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716

## GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK AU\*\* PT\*\* PD\*\* RH\*\* BY FIRE ASSAY & ANALYSIS BY ICP/GRAPHITE FURNACE.

DATE RECEIVED: OCT 25 1989 DATE REPORT MAILED: *Nov 1/89* SIGNED BY.....*C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

JOHN A. CHAPMAN

File # 89-4484

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au**	Pt**	Pd**	Rh**
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPB	PPB	PPB	PPB
SK891022-01	2	52	105	139	.7	14	13	525	2.58	2	5	ND	1	135	2	2	2	40	2.41	.086	2	8	.29	34	.16	10	3.26	.30	.04	1	2	5	3	2
SK891022-02	13	51	7	62	.2	20	11	338	3.78	26	5	ND	1	117	1	8	2	260	1.83	.102	5	35	1.05	108	.21	6	3.97	.35	.89	1	5	3	2	2
SK891022-03	2	65	3	50	.1	3	17	222	2.50	22	5	ND	1	53	1	2	2	58	1.12	.075	5	5	.29	12	.14	9	1.80	.20	.02	1	6	3	10	2
SK891022-04	1	21	7	36	.1	35	14	283	2.34	520	5	ND	1	198	1	3	2	61	2.43	.044	2	76	.95	28	.11	7	4.40	.26	.20	1	7	2	4	2
SK891022-05	8	47	6	29	.2	24	16	228	4.79	217	5	ND	1	43	1	2	2	68	1.12	.070	3	13	.48	34	.11	8	2.11	.16	.04	1	3	1	4	2
SK891022-06	1	65	28	26	.2	116	23	91	2.91	2	5	ND	1	80	1	2	2	33	3.17	.031	2	95	.58	8	.05	5	4.87	.19	.03	1	18	5	7	2
SK891022-07	3	54	2	11	.2	22	12	96	3.26	42	5	ND	1	23	1	2	2	11	.26	.025	2	6	.44	80	.01	5	.97	.06	.17	1	7	1	3	2
SK891022-08	4	103	14	46	.9	10	7	220	3.19	50	5	ND	1	94	1	2	2	24	2.16	.015	2	6	.45	19	.03	8	4.88	.39	.07	1	15	1	4	2
SK891022-09	1	43	8	33	.2	25	17	170	2.76	6	5	ND	1	88	1	2	2	64	2.24	.053	2	52	.75	21	.12	7	3.79	.33	.08	1	7	2	2	2
SK LN4 0+660N	1	48	12	47	.2	147	37	237	3.52	1528	5	ND	1	174	1	4	2	43	3.78	.062	2	148	.90	6	.03	6	7.71	.54	.04	1	11	6	12	2
SK DRILL SITE	3	147	2	19	.3	14	12	87	3.30	224	5	ND	1	8	1	2	2	36	.34	.072	2	7	.13	16	.05	4	.36	.04	.03	1	258	4	6	2
STD C/FA-5X	18	62	43	133	6.8	69	30	1035	4.02	40	19	8	37	48	18	15	18	58	.46	.092	38	55	.87	179	.06	40	1.94	.06	.13	1.1	96	102	103	23

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716

## GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN PB SR CA P LA CR NG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK

DATE RECEIVED: MAY 25 1989

DATE REPORT MAILED: *May 31/89*SIGNED BY: *C. Long*

D. TOYE, C. LEONG, J. WANG: CERTIFIED B.C. ASSAYERS

J.A. CHAPMAN MINING

File # 89-1199

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Cc	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
JAC-S1-01	11	77	7	63	.2	20	12	334	5.66	28	5	ND	1	92	1	3	3	175	1.69	.037	2	33	1.45	57	.11	3	3.98	.20	.61	1
JAC-S1-02	1	827	2	32	.7	271	96	108	13.93	1382	5	ND	3	22	1	15	2	55	.26	.020	2	75	1.25	12	.02	7	1.44	.06	.41	2
JAC-S1-03	1	26486	8898	11588	355.9	22	16	81	14.21	565	12	ND	2	1	139	163	3571	2	.01	.901	2	22	.01	19	.01	5	.18	.01	.07	1
JAC-S1-04	2	7093	16741	864	318.2	12	316	257	28.62	99999	5	ND	3	3	8	238	846	6	.01	.004	2	2	.01	21	.01	3	.13	.01	.07	1
JAC-S1-05	2	1927	52	128	6.7	28	74	484	12.55	105	5	ND	1	64	1	2	3	24	2.01	.129	3	11	.30	8	.02	4	3.50	.28	.01	3
JAC-S1-06	2	960	510	126	23.4	49	49	257	8.80	1944	5	ND	1	50	2	3	16	175	1.21	.143	2	19	.80	10	.15	4	2.93	.28	.70	1

ACME ANALYTICAL LABORATORIES LTD.

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WHOLE ROCK ICP ANALYSIS

A .1000 GRAM SAMPLE IS PULSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 50 MLS 5% HNO3.

- SAMPLE TYPE: ROCK

DATE RECEIVED: MAY 25 1989

DATE REPORT MAILED: *May 31/89*

SIGNED BY: *C. Long*

D. TOYE, C. LBONG, J. WANG; CERTIFIED B.C. ASSAYERS

J.A. CHAPMAN MINING

File # 89-1199

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	La PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
JAC-S1-01	111	80	18	14	228	25	70	38	36	20	20
JAC-S1-02	808	45	327	111	160	25	74	20	12	20	20
JAC-S1-03	24962	11817	32	18	10	25	20	20	43	22	20
JAC-S1-04	7052	1001	29	435	10	25	5	20	5	21	20
JAC-S1-05	1804	144	34	121	189	25	104	35	42	20	20
JAC-S1-06	958	180	59	62	296	25	78	20	34	20	20

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 11 1988

DATE REPORT MAILED: *Oct 18/88*

SIGNED BY: *C. Long* . . . D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

JOHN A. CHAPMAN PROJECT-SKAGIT 88 File # 88-5099

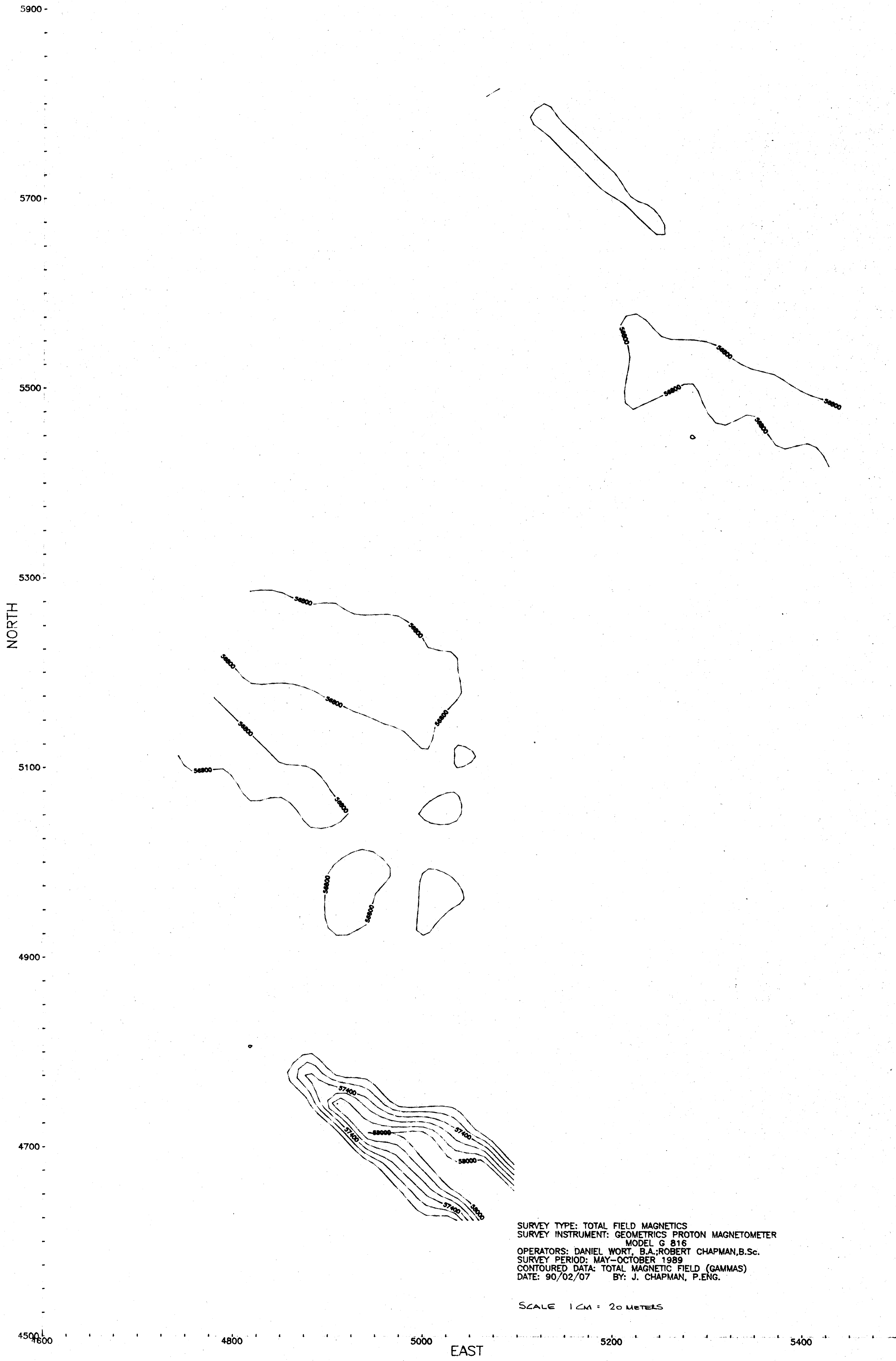
SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPB
JW 1	1	67196	2915	2903	393.5	29	9	416	30.00	31	5	ND	2	1	41	32	1600	1	.02	.001	2	15	.01	5	.01	2	.05	.01	.03	4	1405
JW 2	5	106	10	81	.6	18	19	177	3.67	274	5	ND	2	57	1	10	2	136	1.35	.035	2	32	.51	79	.10	2	3.20	.26	.39	2	166

Assay required for correct result for Cu > 10,000 ppm  
Ag > 35.0 ppm.

SKAGIT PROJECT, 1989, TOTAL FIELD MAGNETICS

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,715



SURVEY TYPE: TOTAL FIELD MAGNETICS  
SURVEY INSTRUMENT: GEOMETRICS PROTON MAGNETOMETER  
MODEL G 816  
OPERATORS: DANIEL WORT, B.A.; ROBERT CHAPMAN, B.Sc.  
SURVEY PERIOD: MAY-OCTOBER 1989  
CONTOURED DATA: TOTAL MAGNETIC FIELD (GAMMAS)  
DATE: 90/02/07 BY: J. CHAPMAN, P.ENG.

SCALE 1 CM = 20 METERS

19,715

