



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

Alaska Geologic Materials Center *Data Report No. 389*

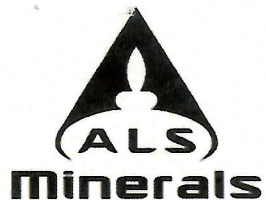
No. 389

Millrock Resources 2011, Core photographs, assay results,
and 1988 drill logs from the Cominco DDH-1 through
DDH-4 boreholes, Shadow Prospect, Tyonek Quadrangle

CD available upon request (35 photos, 151 MB)

Received February, 2011

All data reports may be downloaded free of charge from the [DGGs website](#).



ALS USA Inc.

4977 Energy Way
Reno NV 89502

Phone: 775 356 5395 Fax: 775 355 0179 www.alsglobal.com

To: MILLROCK EXPLORATION CORP.
P.O. BOX 200867
719 EAST 11TH STREET, SUITE C
ANCHORAGE AK 99520

Page: 1
Finalized Date: 5- MAY- 2011
Account: MILRES

CERTIFICATE FA11056418

Project: Estelle

P.O. No.:

This report is for 69 Drill Core samples submitted to our lab in Fairbanks, AK, USA on 8- APR- 2011.

The following have access to data associated with this certificate:

RYAN CAMPBELL
PHIL ST.GEORGE

HANS HOFFMAN

GEORGE KLEMMICK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES

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ATTN: PHIL ST.GEORGE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS FA11056418

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP22 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
741514 DDH-1 (277-285 ft)		1.32	0.080	<0.5	7.64	13	950	3.3	<2	2.12	<0.5	9	54	66	3.11	20
740042 DDH-3 (303-306 ft)		1.59	0.594	0.5	7.45	41	840	3.8	<2	2.00	<0.5	8	52	195	3.02	20
740016 DDH-2 (163-167 ft)		1.53	0.094	0.5	7.55	12	860	3.8	<2	1.83	<0.5	8	46	92	2.82	20
740023 DDH-3 (100-102.5 ft)		1.93	0.185	<0.5	7.52	24	850	3.8	<2	2.07	<0.5	9	55	126	2.87	20
740045 DDH-4 (180-185 ft)		2.00	0.106	<0.5	7.26	19	850	3.7	<2	2.07	<0.5	9	52	92	3.00	20
740030 DDH-3 (135-140 ft)		2.69	0.073	<0.5	7.52	7	900	3.6	<2	2.15	0.5	9	59	100	3.09	20
741508 DDH-1 (255-258 ft)		0.71	0.238	0.5	7.54	42	880	3.6	<2	2.28	<0.5	9	58	171	3.37	20
740046 DDH-4 (185-188 ft)		1.68	0.212	<0.5	7.32	50	850	3.8	<2	2.00	0.5	8	50	166	2.91	20
741521 DDH-4 (160.5-165 ft)		1.90	0.110	<0.5	7.42	20	830	3.7	<2	2.51	<0.5	10	54	93	3.11	20
740022 DDH-2 (228-230 ft)		0.79	0.492	0.7	7.49	56	800	4.0	<2	2.06	<0.5	10	52	198	2.80	20
740041 DDH-3 (298-303 ft)		2.03	0.511	<0.5	7.46	22	890	3.7	<2	1.97	<0.5	8	55	230	3.19	20
740027 DDH-3 (120-125 ft)		2.91	0.118	<0.5	7.40	20	830	3.7	<2	1.87	0.5	8	49	122	2.74	20
740010 DDH-2 (84-89 ft)		2.32	0.248	<0.5	7.53	13	880	3.7	<2	1.84	0.5	9	47	196	2.99	20
740003 DDH-2 (50.5-54 ft)		1.75	0.443	<0.5	7.09	42	770	3.7	<2	2.24	<0.5	8	42	150	2.44	20
740002 DDH-2 (47-50.5 ft)		1.91	0.404	<0.5	7.40	49	860	3.6	<2	1.70	<0.5	7	46	123	2.75	20
740036 DDH-3 (165-170 ft)		2.09	0.174	<0.5	7.23	15	850	3.6	<2	1.98	<0.5	8	54	148	2.95	20
740014 DDH-2 (104-109 ft)		2.89	0.289	<0.5	7.76	12	870	3.7	<2	1.73	<0.5	7	45	159	2.92	20
740019 DDH-2 (211-215 ft)		0.81	0.226	<0.5	7.34	37	760	3.8	<2	2.00	<0.5	8	54	207	3.04	20
741515 DDH-1 (286.5-287 ft)		0.36	0.035	<0.5	7.93	12	930	3.6	2	2.16	<0.5	9	58	36	3.28	20
740026 DDH-3 (115-120 ft)		2.56	0.058	0.5	7.07	25	840	3.8	2	2.04	<0.5	8	57	69	2.86	20
741505 DDH-1 (245-247 ft)		0.60	0.369	0.8	6.94	13	870	3.8	3	1.76	<0.5	7	55	126	2.96	20
740032 DDH-3 (145-150 ft)		1.93	0.114	1.0	7.00	11	920	3.8	<2	2.04	0.5	9	57	147	2.98	20
741517 DDH-1 (292-296 ft)		1.59	0.138	0.6	7.15	12	760	3.8	<2	1.97	<0.5	8	50	66	2.98	20
740043 DDH-3 (306-313 ft)		2.49	0.322	0.8	6.94	42	840	3.7	3	2.22	0.7	8	55	204	3.07	20
740006 DDH-2 (63-68 ft)		1.77	0.078	0.8	7.22	8	930	3.6	2	1.86	<0.5	7	48	95	2.83	10
741512 DDH-1 (267-274.5 ft)		2.23	0.106	0.6	7.44	5	980	3.6	2	1.97	<0.5	7	51	78	2.78	20
740034 DDH-3 (155-160 ft)		2.12	0.046	1.1	7.32	7	910	3.7	<2	2.18	<0.5	8	60	90	2.94	10
740031 DDH-3 (140-145 ft)		2.07	0.050	0.8	7.07	9	860	3.7	2	2.08	0.5	7	61	61	2.83	20
740001 DDH-2 (44.5-47 ft)		0.86	0.264	0.7	7.61	30	890	4.1	<2	1.62	<0.5	6	48	110	2.57	20
740015 DDH-2 (109-111 ft)		0.95	0.175	0.6	7.12	15	840	3.9	<2	1.76	<0.5	6	48	121	2.42	20
740028 DDH-3 (125-130 ft)		2.41	0.066	1.0	7.40	12	930	3.8	3	2.22	<0.5	7	64	106	3.03	20
740029 DDH-3 (130-135 ft)		1.70	0.135	1.0	7.41	8	920	3.7	<2	2.24	0.5	9	61	99	3.04	20
741502 DDH-1 (94-102 ft)		2.50	0.075	0.6	7.31	7	920	3.8	<2	1.94	<0.5	8	48	86	2.66	20
741509 DDH-1 (258-262 ft)		1.42	0.124	0.5	7.37	16	890	3.5	<2	2.20	<0.5	9	56	138	2.86	20
740004 DDH-2 (54-58 ft)		1.86	0.392	0.9	7.04	30	870	3.8	2	1.68	<0.5	6	45	240	2.49	20
740021 DDH-2 (220-225 ft)		2.15	0.268	0.7	6.96	23	840	3.8	2	2.36	<0.5	9	53	132	2.72	20
740009 DDH-2 (79-84 ft)		2.40	0.253	0.8	7.46	10	930	3.8	2	1.76	0.5	6	46	193	2.57	20
741504 DDH-1 (238-245 ft)		1.66	0.183	0.8	7.28	16	860	3.8	<2	1.81	<0.5	6	48	132	2.64	20
740008 DDH-2 (74-79 ft)		2.86	1.105	0.5	6.96	19	830	3.8	3	1.88	<0.5	6	47	119	2.43	20
741516 DDH-1 (287-292 ft)		2.36	0.128	<0.5	7.26	11	860	4.0	2	2.03	<0.5	8	57	93	2.80	20



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Page: 2 - B
Total # Pages: 3 (A - C)
Finalized Date: 5- MAY- 2011
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Project: Estelle

CERTIFICATE OF ANALYSIS FA11056418

Sample Description	Method Analyte Units LOR	ME- ICP61 K %	ME- ICP61 La ppm	ME- ICP61 Mg %	ME- ICP61 Mn ppm	ME- ICP61 Mo ppm	ME- ICP61 Na %	ME- ICP61 Ni ppm	ME- ICP61 P ppm	ME- ICP61 Pb ppm	ME- ICP61 S %	ME- ICP61 Sb ppm	ME- ICP61 Sc ppm	ME- ICP61 Sr ppm	ME- ICP61 Th ppm	ME- ICP61 Ti %
741514 DDH-1 (277-285 ft)		3.41	20	1.04	712	1	2.57	15	830	22	0.01	<5	9	628	<20	0.28
740042 DDH-3 (303-306 ft)		3.61	20	1.02	706	4	2.54	14	760	22	0.03	<5	8	582	20	0.26
740016 DDH-2 (163-167 ft)		3.67	30	0.88	615	1	2.48	13	740	28	<0.01	5	8	559	20	0.26
740023 DDH-3 (100-102.5 ft)		3.42	20	1.00	655	<1	2.64	14	770	24	0.01	<5	9	602	20	0.26
740045 DDH-4 (180-185 ft)		3.61	20	0.94	758	3	2.44	14	740	24	0.01	<5	8	583	20	0.25
740030 DDH-3 (135-140 ft)		3.65	20	1.11	766	<1	2.51	14	810	27	0.01	5	9	592	20	0.27
741508 DDH-1 (255-258 ft)		3.52	20	1.09	703	1	2.54	15	820	22	0.01	<5	9	566	20	0.28
740046 DDH-4 (185-188 ft)		3.69	20	0.93	768	1	2.46	12	720	27	0.02	<5	8	548	20	0.24
741521 DDH-4 (160.5-165 ft)		3.62	20	0.98	747	2	2.29	13	750	25	0.02	6	9	505	20	0.26
740022 DDH-2 (228-230 ft)		3.61	20	0.92	612	1	2.53	14	770	23	<0.01	<5	8	477	20	0.26
740041 DDH-3 (298-303 ft)		3.70	20	1.02	680	2	2.53	15	770	24	0.02	<5	9	588	20	0.26
740027 DDH-3 (120-125 ft)		3.70	20	0.91	672	<1	2.49	12	680	22	0.01	<5	8	537	20	0.23
740010 DDH-2 (84-89 ft)		3.64	20	0.87	690	1	2.63	13	690	24	0.01	<5	8	575	20	0.23
740003 DDH-2 (50.5-54 ft)		3.18	20	0.77	510	1	2.58	12	670	25	0.01	<5	7	508	<20	0.21
740002 DDH-2 (47-50.5 ft)		3.46	20	0.84	573	<1	2.52	14	660	24	0.01	<5	8	615	20	0.23
740036 DDH-3 (165-170 ft)		3.51	20	0.99	704	<1	2.44	13	740	24	<0.01	<5	8	567	20	0.25
740014 DDH-2 (104-109 ft)		3.59	20	0.81	624	1	2.49	13	660	23	0.01	<5	8	562	20	0.22
740019 DDH-2 (211-215 ft)		3.15	20	1.03	620	<1	2.63	14	1040	23	<0.01	<5	9	542	20	0.26
741515 DDH-1 (286.5-287 ft)		3.51	20	1.15	714	2	2.55	14	850	32	0.01	<5	9	613	20	0.28
740026 DDH-3 (115-120 ft)		3.52	20	0.94	607	1	2.25	16	790	24	0.01	<5	7	419	<20	0.28
741505 DDH-1 (245-247 ft)		3.43	20	0.94	593	1	2.38	16	740	20	0.01	<5	7	528	20	0.26
740032 DDH-3 (145-150 ft)		3.64	20	1.05	793	2	2.40	16	800	26	0.01	<5	7	558	<20	0.28
741517 DDH-1 (292-296 ft)		3.45	30	0.97	688	3	2.43	13	760	21	0.01	<5	7	529	20	0.27
740043 DDH-3 (306-313 ft)		3.56	30	0.97	945	5	2.30	13	710	25	0.03	<5	7	534	20	0.25
740006 DDH-2 (63-68 ft)		3.47	20	0.84	759	2	2.58	13	700	27	0.02	<5	6	589	<20	0.24
741512 DDH-1 (267-274.5 ft)		3.36	30	0.95	643	2	2.52	17	800	20	0.01	<5	7	584	20	0.28
740034 DDH-3 (155-160 ft)		3.61	20	1.06	661	2	2.46	16	850	22	0.01	<5	8	588	20	0.29
740031 DDH-3 (140-145 ft)		3.56	20	1.06	684	1	2.49	14	820	30	0.01	<5	8	537	20	0.28
740001 DDH-2 (44.5-47 ft)		3.63	30	0.80	581	2	2.55	16	680	23	0.02	<5	7	577	20	0.23
740015 DDH-2 (109-111 ft)		3.59	30	0.80	593	1	2.37	13	660	21	<0.01	<5	6	523	20	0.23
740028 DDH-3 (125-130 ft)		3.58	30	1.10	826	3	2.50	16	820	22	0.01	<5	8	589	20	0.29
740029 DDH-3 (130-135 ft)		3.52	20	1.11	795	1	2.55	15	870	26	0.01	<5	8	608	20	0.30
741502 DDH-1 (94-102 ft)		3.47	30	0.90	608	2	2.45	18	780	24	0.01	<5	7	559	20	0.27
741509 DDH-1 (258-262 ft)		3.39	30	1.07	645	2	2.50	15	830	22	0.01	<5	8	631	20	0.28
740004 DDH-2 (54-58 ft)		3.52	20	0.80	623	2	2.49	15	650	25	0.03	<5	6	575	20	0.23
740021 DDH-2 (220-225 ft)		3.41	20	0.99	685	2	2.21	13	790	23	0.01	<5	7	541	<20	0.27
740009 DDH-2 (79-84 ft)		3.68	30	0.82	665	2	2.53	13	690	24	0.01	<5	7	586	20	0.24
741504 DDH-1 (238-245 ft)		3.54	30	0.90	668	1	2.43	12	710	25	0.01	<5	7	548	20	0.24
740008 DDH-2 (74-79 ft)		3.22	20	0.80	539	2	2.46	14	720	24	0.01	<5	7	504	<20	0.23
741516 DDH-1 (287-292 ft)		3.54	30	1.02	649	4	2.48	15	800	24	0.01	<5	8	560	20	0.28



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Sample Description	Method Analyte Units LOR	ME- ICP61 Ti ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2
741514 DDH-1 (277-285 ft)		<10	<10	61	<10	78
740042 DDH-3 (303-306 ft)		<10	10	57	<10	74
740016 DDH-2 (163-167 ft)		<10	<10	52	<10	70
740023 DDH-3 (100-102.5 ft)		<10	10	57	<10	67
740045 DDH-4 (180-185 ft)		<10	<10	54	<10	74
740030 DDH-3 (135-140 ft)		<10	<10	61	<10	79
741508 DDH-1 (255-258 ft)		<10	<10	63	<10	74
740046 DDH-4 (185-188 ft)		<10	<10	53	<10	74
741521 DDH-4 (160.5-165 ft)		<10	10	58	<10	74
740022 DDH-2 (228-230 ft)		<10	10	58	<10	61
740041 DDH-3 (298-303 ft)		<10	10	58	<10	71
740027 DDH-3 (120-125 ft)		<10	10	51	<10	65
740010 DDH-2 (84-89 ft)		<10	<10	54	<10	71
740003 DDH-2 (50.5-54 ft)		<10	<10	51	<10	60
740002 DDH-2 (47-50.5 ft)		<10	<10	52	<10	59
740036 DDH-3 (165-170 ft)		<10	<10	57	<10	66
740014 DDH-2 (104-109 ft)		<10	10	51	<10	59
740019 DDH-2 (211-215 ft)		<10	<10	59	<10	65
741515 DDH-1 (286.5-287 ft)		<10	10	63	<10	76
740026 DDH-3 (115-120 ft)		<10	10	62	<10	72
741505 DDH-1 (245-247 ft)		<10	10	59	<10	63
740032 DDH-3 (145-150 ft)		<10	10	63	<10	80
741517 DDH-1 (292-296 ft)		<10	10	57	<10	69
740043 DDH-3 (306-313 ft)		<10	10	60	<10	86
740006 DDH-2 (63-68 ft)		<10	10	58	<10	75
741512 DDH-1 (267-274.5 ft)		<10	10	62	<10	75
740034 DDH-3 (155-160 ft)		<10	10	65	<10	73
740031 DDH-3 (140-145 ft)		<10	10	63	<10	92
740001 DDH-2 (44.5-47 ft)		<10	10	55	<10	68
740015 DDH-2 (109-111 ft)		<10	10	55	<10	61
740028 DDH-3 (125-130 ft)		<10	10	64	<10	77
740029 DDH-3 (130-135 ft)		<10	10	67	<10	81
741502 DDH-1 (94-102 ft)		<10	10	57	<10	70
741509 DDH-1 (258-262 ft)		<10	10	64	<10	70
740004 DDH-2 (54-58 ft)		<10	10	56	<10	65
740021 DDH-2 (220-225 ft)		<10	10	61	<10	72
740009 DDH-2 (79-84 ft)		<10	10	54	<10	67
741504 DDH-1 (238-245 ft)		<10	10	54	<10	69
740008 DDH-2 (74-79 ft)		<10	10	55	<10	60
741516 DDH-1 (287-292 ft)		<10	10	62	<10	69



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP22 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
741511 DDH-1 (265-267 ft)		0.70	0.067	0.6	7.14	9	880	3.7	2	1.87	<0.5	8	47	43	2.59	20
740018 DDH-2 (171-175 ft)		2.12	0.198	0.6	7.66	12	950	3.8	<2	1.87	<0.5	8	45	96	2.65	20
741518 DDH-1 (296-302 ft)		1.76	0.092	0.6	7.00	22	850	3.7	<2	2.07	<0.5	9	58	118	2.88	20
740012 DDH-2 (94-99 ft)		2.54	0.217	0.9	7.14	<5	910	3.5	3	1.70	<0.5	7	44	165	2.45	20
741506 DDH-1 (247-251 ft)		1.15	0.586	0.8	7.32	18	870	4.0	<2	2.20	0.5	8	55	194	3.01	20
741520 DDH-4 (158-160.5 ft)		0.93	0.079	0.9	6.90	10	850	3.9	2	1.93	<0.5	8	55	58	2.69	20
740044 DDH-4 (175-180 ft)		2.44	0.235	0.8	7.22	34	990	3.5	<2	2.18	<0.5	8	47	104	2.89	20
741523 DDH-4 (170-175 ft)		1.87	0.417	0.9	6.45	10	770	3.6	<2	1.99	<0.5	7	52	101	2.47	10
740024 DDH-3 (103.5-110 ft)		2.20	0.134	0.8	6.88	14	840	3.8	2	1.80	<0.5	7	55	150	2.68	20
740020 DDH-2 (215-220 ft)		2.30	0.102	0.6	7.45	36	860	3.7	2	2.30	<0.5	10	55	105	2.80	20
740037 DDH-3 (170-175 ft)		2.09	0.257	0.8	6.88	30	760	4.2	<2	2.10	<0.5	7	53	250	2.76	20
741510 DDH-1 (262-265 ft)		1.24	0.195	0.7	7.14	17	870	3.7	<2	1.92	<0.5	6	51	192	2.75	20
741519 DDH-4 (155-158 ft)		0.84	0.146	<0.5	7.53	21	950	3.5	<2	2.12	<0.5	8	63	88	3.20	20
740005 DDH-2 (58-63 ft)		2.21	0.122	<0.5	7.27	28	900	3.6	<2	1.72	<0.5	6	47	136	2.64	20
740033 DDH-3 (150-155 ft)		2.18	0.059	<0.5	6.98	14	800	3.5	<2	2.18	<0.5	8	59	81	3.00	20
740038 DDH-3 (175-178 ft)		1.47	0.819	1.4	7.64	42	960	3.7	2	1.73	0.5	8	56	349	3.25	20
741507 DDH-1 (251-255 ft)		1.58	0.316	0.5	7.61	10	880	3.6	<2	2.08	<0.5	8	54	96	3.00	20
740013 DDH-2 (99-104 ft)		1.66	0.137	<0.5	7.75	13	980	3.9	<2	2.01	0.5	7	47	123	2.68	20
741513 DDH-1 (274.5-277 ft)		0.87	0.122	<0.5	7.52	14	940	4.0	<2	1.90	<0.5	8	47	97	2.82	20
740007 DDH-2 (68-74 ft)		2.55	0.078	<0.5	7.38	12	920	3.5	2	1.84	0.5	7	44	102	2.54	20
740039 DDH-3 (287.5-292.5 ft)		1.65	0.405	0.5	7.41	24	900	4.0	2	2.12	0.6	9	58	163	3.07	20
741501 DDH-1 (89.5-94 ft)		1.62	0.333	<0.5	7.64	11	950	3.7	<2	1.94	0.5	7	47	125	2.69	20
740025 DDH-3 (110-115 ft)		2.27	0.074	<0.5	7.70	21	940	4.0	<2	1.78	<0.5	8	59	138	2.91	20
741522 DDH-4 (165-170 ft)		2.39	1.125	0.8	6.98	35	870	3.7	<2	1.92	0.6	9	52	214	2.71	20
740040 DDH-3 (292.5-298 ft)		2.17	0.178	<0.5	7.16	26	910	3.9	2	2.10	0.5	9	56	104	2.95	20
740011 DDH-2 (89-94 ft)		2.20	0.245	<0.5	7.75	8	980	3.8	<2	1.95	<0.5	7	48	201	2.76	20
740017 DDH-2 (167-171 ft)		2.18	0.378	0.5	7.68	5	870	3.9	2	1.97	0.6	8	46	128	2.74	20
741503 DDH-1 (102-104.5 ft)		0.75	0.072	<0.5	7.87	10	990	3.8	<2	2.00	<0.5	8	47	84	2.74	20
740035 DDH-3 (160-165 ft)		2.27	0.126	<0.5	8.09	17	920	3.8	<2	2.30	<0.5	9	61	140	3.11	20



ALS USA Inc.
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To: MILLROCK EXPLORATION CORP.
P.O. BOX 200867
719 EAST 11TH STREET, SUITE C
ANCHORAGE AK 99520

Page: 3 - B
Total # Pages: 3 (A - C)
Finalized Date: 5- MAY- 2011
Account: MILRES

Project: Estelle

CERTIFICATE OF ANALYSIS FA11056418

Sample Description	Method Analyte Units LOR	ME- ICP61 K %	ME- ICP61 La ppm	ME- ICP61 Mg %	ME- ICP61 Mn ppm	ME- ICP61 Mo ppm	ME- ICP61 Na %	ME- ICP61 Ni ppm	ME- ICP61 P ppm	ME- ICP61 Pb ppm	ME- ICP61 S %	ME- ICP61 Sb ppm	ME- ICP61 Sc ppm	ME- ICP61 Sr ppm	ME- ICP61 Th ppm	ME- ICP61 Ti %
741511 DDH-1 (265-267 ft)		3.27	30	0.86	602	2	2.41	17	760	17	<0.01	<5	7	547	20	0.27
740018 DDH-2 (171-175 ft)		3.63	30	0.91	609	1	2.41	15	770	21	<0.01	<5	7	563	20	0.27
741518 DDH-1 (296-302 ft)		3.49	20	1.04	688	3	2.46	17	800	19	0.02	<5	7	550	<20	0.29
740012 DDH-2 (94-99 ft)		3.43	20	0.82	597	2	2.43	13	690	19	0.01	<5	7	568	<20	0.24
741506 DDH-1 (247-251 ft)		3.63	20	1.04	792	2	2.43	15	810	23	<0.01	<5	8	536	20	0.28
741520 DDH-4 (158-160.5 ft)		3.52	20	0.98	660	4	2.41	14	770	23	0.01	<5	7	571	20	0.27
740044 DDH-4 (175-180 ft)		3.16	30	0.95	652	2	2.42	15	840	18	0.01	<5	7	627	<20	0.27
741523 DDH-4 (170-175 ft)		3.35	30	0.84	770	5	2.19	13	720	18	0.03	<5	7	471	<20	0.24
740024 DDH-3 (103.5-110 ft)		3.54	20	0.94	654	1	2.31	14	760	19	0.01	<5	7	507	<20	0.26
740020 DDH-2 (215-220 ft)		3.50	30	1.02	675	1	2.23	14	810	23	0.01	<5	8	535	20	0.28
740037 DDH-3 (170-175 ft)		3.03	20	0.91	553	1	2.62	14	720	19	0.01	<5	7	509	<20	0.26
741510 DDH-1 (262-265 ft)		3.38	30	0.90	573	3	2.43	13	740	19	0.02	<5	7	536	20	0.26
741519 DDH-4 (155-158 ft)		3.61	30	1.05	748	1	2.37	14	850	25	0.01	5	8	579	20	0.29
740005 DDH-2 (58-63 ft)		3.43	30	0.79	687	1	2.47	11	650	27	0.01	<5	6	576	20	0.23
740033 DDH-3 (150-155 ft)		3.25	20	1.01	686	<1	2.26	13	810	20	<0.01	<5	7	527	<20	0.28
740038 DDH-3 (175-178 ft)		3.66	20	1.07	531	2	2.63	15	830	24	0.01	<5	8	609	<20	0.28
741507 DDH-1 (251-255 ft)		3.62	30	1.04	689	1	2.53	13	800	23	0.01	<5	8	557	20	0.27
740013 DDH-2 (99-104 ft)		3.65	20	0.90	680	2	2.72	12	730	24	0.01	<5	7	639	<20	0.25
741513 DDH-1 (274.5-277 ft)		3.53	20	0.92	635	2	2.64	14	780	23	0.01	<5	7	628	<20	0.27
740007 DDH-2 (68-74 ft)		3.53	20	0.84	621	2	2.61	12	720	23	0.03	<5	6	588	<20	0.23
740039 DDH-3 (287.5-292.5 ft)		3.62	20	1.08	802	2	2.63	14	840	24	0.01	<5	8	619	<20	0.28
741501 DDH-1 (89.5-94 ft)		3.64	20	0.91	662	3	2.64	12	770	26	0.02	<5	7	614	<20	0.26
740025 DDH-3 (110-115 ft)		3.79	20	1.06	626	2	2.57	14	830	22	0.01	<5	8	604	<20	0.28
741522 DDH-4 (165-170 ft)		3.65	20	0.95	664	4	2.35	13	770	25	0.02	<5	7	489	<20	0.26
740040 DDH-3 (292.5-298 ft)		3.74	20	1.02	791	3	2.62	14	810	25	0.01	<5	7	583	<20	0.27
740011 DDH-2 (89-94 ft)		3.86	20	0.89	725	2	2.75	11	730	24	0.01	<5	7	624	20	0.25
740017 DDH-2 (167-171 ft)		3.73	30	0.90	605	2	2.49	14	770	25	<0.01	<5	7	560	20	0.26
741503 DDH-1 (102-104.5 ft)		3.66	30	0.94	596	1	2.67	13	810	23	<0.01	<5	7	620	20	0.28
740035 DDH-3 (160-165 ft)		3.52	30	1.18	632	1	2.63	14	880	21	0.01	<5	8	651	20	0.29



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Page: 3 - C
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Project: Estelle

CERTIFICATE OF ANALYSIS FA11056418

Sample Description	Method Analyte Units LOR	ME- ICP61 Ti	ME- ICP61 U	ME- ICP61 V	ME- ICP61 W	ME- ICP61 Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
741511 DDH-1 (265-267 ft)		<10	10	56	<10	67
740018 DDH-2 (171-175 ft)		<10	10	55	<10	73
741518 DDH-1 (296-302 ft)		<10	10	64	<10	74
740012 DDH-2 (94-99 ft)		<10	10	57	<10	64
741506 DDH-1 (247-251 ft)		<10	<10	63	<10	80
741520 DDH-4 (158-160.5 ft)		<10	10	59	<10	69
740044 DDH-4 (175-180 ft)		<10	<10	58	<10	71
741523 DDH-4 (170-175 ft)		<10	10	55	<10	64
740024 DDH-3 (103.5-110 ft)		<10	10	59	<10	70
740020 DDH-2 (215-220 ft)		<10	<10	61	<10	79
740037 DDH-3 (170-175 ft)		<10	10	57	<10	62
741510 DDH-1 (262-265 ft)		<10	10	57	<10	66
741519 DDH-4 (155-158 ft)		<10	10	65	<10	138
740005 DDH-2 (58-63 ft)		<10	10	54	<10	72
740033 DDH-3 (150-155 ft)		<10	<10	64	<10	75
740038 DDH-3 (175-178 ft)		<10	<10	62	<10	67
741507 DDH-1 (251-255 ft)		<10	<10	62	<10	73
740013 DDH-2 (99-104 ft)		<10	<10	60	<10	71
741513 DDH-1 (274.5-277 ft)		<10	<10	57	<10	75
740007 DDH-2 (68-74 ft)		<10	<10	55	<10	69
740039 DDH-3 (287.5-292.5 ft)		<10	<10	65	<10	91
741501 DDH-1 (89.5-94 ft)		<10	<10	57	<10	78
740025 DDH-3 (110-115 ft)		<10	<10	63	<10	70
741522 DDH-4 (165-170 ft)		<10	<10	59	<10	74
740040 DDH-3 (292.5-298 ft)		10	<10	62	<10	82
740011 DDH-2 (89-94 ft)		<10	<10	61	<10	75
740017 DDH-2 (167-171 ft)		<10	<10	55	<10	76
741503 DDH-1 (102-104.5 ft)		<10	<10	58	<10	71
740035 DDH-3 (160-165 ft)		<10	<10	68	<10	69

Estelle-Timber Creek
 Drilling
 Shadow DDH- 1,2,3 & 4
 1988 Dill Logs
 AK, Tyonek D-8

AK-061150-8
 Technical

map: Tyonek #1

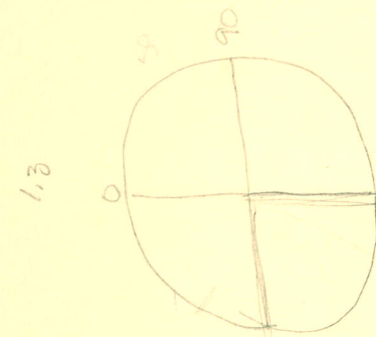
$$\frac{L}{X} = \frac{X}{L}$$

$$\frac{0.001}{1} = \frac{0.001}{1}$$

5.5 1660 9130
 2.2 2000 4400
 0.8 +21,300 17,360
 3.5 5600 19,600
 4 +22,300 89,200
 2 9820 19,640
 3 1360 4,080
 21 163,410

6
 2.25
 57.2
 30.69
 4.64
 160.78

5 1000 20,000
 16 980 9800
 9 212 6508
 8 980 7840
 32 43148



2.2
 2.2
 2.2
 2.2

7815
 1140
 15,000
 2112
 1530
 1880
 29,777

N50W - 45°
N30W - 45°
Shadow #1
100'

N52W - 46.5°
N27W - 46.5°
Shadow #1
200'

N48W - 47°
N25W - 47°
Shadow #1
300'

~~N68W - 45°~~
~~N43W - 45°~~
Shadow 2
100'

N65W - 45°
N40W - 45°
Shadow 2
250'

Shadow 2
400'
N68W
N43W

SILICIC SPUR

DEPTH	AZIMUTH	DIP
100'	212.5	46.5
200'	220.5	46.0
350'	221.5	46.0
500'	222.5	45.5
650'	222.5	45.5
800'	215.0	45.0

Shadow 5
800'

Shadow 5
650'

Shadow 5
500'

Shadow 5
350'

Shadow 5
200'

Shadow 5
100'



Cominco Alaska

HOLE # DDH-1

PROPERTY: SHADOW

GRID COORDINATES:

Box # 1 Box # 2 Box # 3 Box # 4 Box # 5 Box # 6 Box # 7

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure
0								
3								
7 1/2								
10.5								
17								
20	100					70 qz 20 chl 15 chl	45	
22	100					25 qz py 20 40 qz, qz chl-py-py	50	
27						70 qz 30 qz 30 qz	50	
30	90							
36	100							
38								
40	20					50 qz		
47								
50	90							
52	100					30 qz (py)		
57								
58	90					50 qz		
60								
68	100					qz 50 qz		
70								

OVERBURDEN

17.5 1/2" qz vein 70% ch. x cut by mm chl veinlet 20% ch.

MEDIUM GRAINED KSPAR-PAG-QZ-BIOTITE MASONITE / QZ MASONITE - 2-4 mm Euhedral Kspar Phenocrysts; 21% cm Biotitized hornfels? xenoliths. Biotite 4-11% cross cut by chlorite + tr. py, cp veinlets - 40-40% ch. and qz-py-cp veinlets 20% ch.

540% matrix - silver green chlorite tr. py, cp to 1% 1-2% pres of Mosz @ 11' - Kspar qz vein x cuts chl veinlets but doesn't offset them

HX TO 27' - REDUCE TO NY

29, 31' 1" v.f.g. qz Kspar tr. bio dens

biotite commonly have Drusey color

36-47 matrix mcr. to 10-15% cm. biotite; 3-5% xenoliths. chl alt. diminishes

36 - chl fr. 5/6 inch

47 - 50% ch

48 - 40% ch 47-48 zone of qz - 25% alt. matrix totally gone. Some trace staining along fr. (2-3% py - lower contact is brecciated)

48 - Periplutic Kspar-plag - qz - biotite qz masonite less chl than above. Gold spears 2-3 mm. 2-3% rounded biotite xenoliths

55 stockwork chl-qz (py) veining

58 stockwork chl veining

up to 1" zoned K-spar dens

3-5% biotite xenoliths from 1/4" to 1"

60.5 Contact between fresh porphyritic qz mcr? SiO2 - K-spar - ser? alt. matrix gone

50% ch. Pink 1" v.f.g. qz Kspar vein

chl veinlets x cut 2' off set pink qz Kspar veins

ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS			
			Au	Au	Ag	Cu
CHL qz-K	py cp mo		ppb	ppb	ppm	ppm
		405519 (4,5)	340		0.9	169
		405520 (5')	128		0.9	101
		405521 (4')	102		1.0	124
		405522 (5')	226		0.6	96
		405523 (1')	752		2.4	247
		405524 (1')	374		2.4	212
		405525 (4')	218		2.4	165
		405526 (5')	260		2.4	196
		405527 (4')	72		2.4	81
		405528 (2')	366		2.4	87

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDH-1	LOCATION: SHADOW
ELEVATION: 5250'	ANGLE: -45	BEARING: N32W
TOTAL DEPTH: 307'	DATE STARTED: 7/28/88	DATE COMPLETED: 7/31/88
DRILLER: FOREMAN / COLE	DRILL: BB-25	LOGGED BY: M. MURPHY
GRID COORDINATES:	SCALE: 1" = 10'	Sheet 1 of 6



HOLE # DDH-1

PROPERTY: SHADOW

GRID COORDINATES:

Box # 15 | Box # 14 | Box # 13 | Box # 12 | Box # 11 | Box # 10 | Box # 9 | Box # 8

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
70	100								make contact with massive? feldspar / Kspars phenocr - 1/4" subhedral / euhedral. base fuzzy tharradde. 1% phenocr increases from 1.2 to 6-7%.	Chl 92-K	Py 1 Ep 1 mo 1 po 2	405529 (4')	186		2.4	106	
71	100											74					
77	100																
82	100																
84	100								- 84-87 - ch periplastic texture bedded less distinct feldspars v. fuzzy idiomorphic yz-chl veins			405530 (3')	382		.4	257	
87	100								87-89 - very crowded feldspar porphyry with silice veins			87					
90	100								89-89.5 - pervasive SiO2 to mic			89.5	405531 (0.5')	18200	0.304	9.8	2060
94	100																
95	100								- 95 feldspar phenocrs characteristic abundance up to 1/4" zoned lathes; rare quartz eyes 5-7% biotite; 2-3% chloritoid hornblende lathes								
100	100																
102	100																
106	100																
110	100																
116	100																
120	100																
123	100																
129	100								127' fractured - coated with white clay mz an 10-15% py 128'								
130	100								feldspars somewhat elongated								
130	100								1-2" subhedral lath shaped feldspars - zoned								
130	100																
140	100								- 139 feldspar laths to 1/2" zoned - incr in size								

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDH-1	LOCATION.: SHADOW
ELEVATION: 5250'	ANGLE: -45°	BEARING: N 32 W
TOTAL DEPTH: 307'	DATE STARTED: 7/20/88	DATE COMPLETED: 7/31/88
DRILLER: Foreman / Coner	DRILL: 1" = 10'	LOGGED BY: MAM
GRID COORDINATES:	SCALE:	Sheet 2 of 5

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract	Filled Fract	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION		SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
											PY	CP		Au ppb	Au opt	Ag ppm	Cu ppm	
140									Continued homogeneous perthritic feldspar-biotite-quartz quartz monzonite. Feldspars to 1/4" rounded to subhedral; zoned 5-7% biotite faint banding or alignment of feldspar observed below. 1% xenocrysts maximum. subtle banding to 150' - chloritic veinlets	CHL 150-167 carb	PY	CP						
146																		
150	80					50 qz												
156																		
160	100								Subtle banding - alignment of feldspar and chloritic veinlets - difficult to 162-167' locally good 1-2mm qz "eyes"									
166																		
170	100								170-188 - zone of clay, chlorite variably altered. locally porphyry				170					
177									146' zone of chl-carb act to some sericite - silver-green chlorite				405532 (9.5)	136		2.4	94	
180	160												179.5					
182							70		SANDY CLAY BOUSE									
186	100												405533 (8.7)	166		2.4	102	
188									188' - carbonate veinlet				180					
190	100																	
193									193' 2" SiO2 chl alteration 50° c/A									
195.5	100					50 qz			195.5' 1/4" qz vein to silver green chl act adjacent									
198									~ 195 - Rock - carbonate-clay altered (ironed)									
200									198 bre in SiO2 chl zone 50° c/A									
207																		
210									Subtle close spaced chl-qz veins 50° c/A 9/1 inch				29	405534 (10)	616		0.9 420	

GMC Data Report 389

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timberline Creek	HOLE NO.: DDA-2	LOCATION: SHADOW
ELEVATION: 5250'	ANGLE: -45°	BEARING: N32W
TOTAL DEPTH: 307'	DATE STARTED: 7/20/88	DATE COMPLETED: 7/31/88
DRIILLER: Foreman / Cole	DRILL: 1" = 10'	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1" = 10'	Sheet 3 of 5

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
										CHL (50%) CARB (50%) SCL (50%)	PY CP APP (MAM)		Au	Au	Ag	Cu	
210													ppb	ppb	ppm	ppm	
212.5																	
215	100						45°		Startbed chd veins to op		tr						
217									45° c/a 5/inch tr me on fx, cp								
217 to 219									contact to pervasively altered feldspar chd ser to 1/2 py tr cp 2" flat joint set			217					
220	100								rusty, mottled texture		tr tr tr tr	219	405535 (2")	380			
221									@ 221 a 1" vein in a 3" SiO2-ser altered zone			225	405536 (4")	2540	0.031	2.4	252
222									wt op, po, appy								
227									1/4" pink wavy Ksp/az veins		tr tr						
230	100								231' Feoxy stained sericite - carb altered feldspar porphyry		tr	231					
237									Feoxy feldspar veins			237	405537 (6")	624		0.5	241
246	100											238	405538 (1")	2210	0.037	1.6	537
245									70° c/a carb veins								
250	100						70° qz vein		247 feldspar has pinkish character - Ksp alteration								
255	100								Weakly porphyritic with 1% > 1/2" xenoliths that has an alignment or fabric								
258									SiO2-chd alt veins								
260	100								263 - very "crowded" (looks almost subvolcanic xenolith content decreasing up as is # of > 1/2" feldspar phenocrysts								
267									267' vuggy qz veins								
268																	
270	100																
277																	
280	100																

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDH-2	LOCATION: SHADOW
ELEVATION: 5250'	ANGLE: -45	BEARING: D32.0
TOTAL DEPTH: 307'	DATE STARTED: 7/20/88	DATE COMPLETED: 7/31/88
DRILLER: Foreman/Colz	DRILL:	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1" = 10'	Sheet 4 of 5



HOLE # DDH #1

PROPERTY: SHADOW

GRID COORDINATES :

GOMCONO ALASKA																	
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
													Au	Au	Ag	Cu	
280									very minor silvery green - chl	chl silic carb S - clay	py sp po ssn		ppb	apt	ppm	ppm	
286									286' Rosy w/ing Sericite - chl act bichite → destroyed to brownish chlorite from 283 - 292'		tr	286 286.5	405539 (15')	3000	0.024	2.4	171
290									weak chl streakwork of green/blue chlorite & diss chl								
292																	
300									300' - big! Xenolith 6-8" - intrusive? Plagioclase		tr						
307									300' <div>N48W/-47° Corrected N25W/-47°</div>		tr	300	405540 (5')	106	2.4	92	
307									T.O. 307' No steel left in hole			307					

GMC Data Report 389

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Peak	HOLE NO.: DDH-2	LOCATION.: Shadow
ELEVATION: 5250'	ANGLE: -45°	BEARING: 0320
TOTAL DEPTH: 307'	DATE STARTED:	DATE COMPLETED: 7/31/88
DRILLER: Foreman/cole	DRILL: 7/28/88	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1" = 10'	Sheet 5 of 5



Cominco Alaska

PROPERTY: SHADOW

GRID COORDINATES:

DEPTH

% RECOVERY

GRAPHIC LOG

COLOR

Open Fract.

Filled Fract.

Fracture Filling

Dip

Structure

DESCRIPTION

ALTERATION

MINERALIZATION

SAMPLE NOS. (SPLITS)

ASSAY RESULTS

Au Ag Cu

ppb ppt ppm ppm

OVERBURDEN

30

Porphyritic quartz monzonite with 1/8-1/2" zoned feldspar phenocrysts, 1mm qz eyes and 1% sub angular black protic xenoliths and 2-3% good black biotite - shattered feldspar outcrops are fuzzy. 2-3% disc blue-green chlorite and stock work and qz bearing tracks of altered quartz in veinlets and with discolor. chlorite minor trace pyrite

stage zone @ 11'

11-19.5 Rush zone of qz-sericite alteration feldspar destroyed

Vertical fr. ? fault not real disruptive

thin veinlets of 0.5% white qz - kyanite to biotite leucocratic phase

Subtle banding fabric of matrix - 1/30" @ 31' qz veins with pyrope xcut thin chlorite stockwork veinlets. top in chl veinlets @ 34' chl - qz ser veins w/ altered ser veins - qz xcutting a qz vein. @ intersection reach 35' q/a both xcut fine chl stockwork

Fine stained, bleached qz ser chl altered zones. Feldspar plus very fuzzy biotite is altered abundant silver-green chlorite with locally 1% py. tracey @ 39' completely bleached @ 35 pp

44.5

medium grained qz monzonite. Rarely with 1/4" feldspar phenos. biotite fresh black plates. Patches and thin veinlets of chlorite rare 1/2" xenoliths

@ 53' 0° q/a deep alt - bleached white - fault?

CHL SOIL Sr SiO2 (amb)

py cp po mox

405541 (4.5)

120 2.4 164

405542 (3.5)

140 2.4 183

405543 (4.5)

200 2.4 229

405544 (5)

166 2.4 125

405545 (3.5)

164 2.4 110

405546 (3.5)

246 0.4 264

405547 (4.5)

220 2.4 184

405548 (3.5)

2600 1.009 2.4 118

405549 (4.5)

COMINCO ALASKA

PROPERTY: Timber Creek

ELEVATION: 5250'

TOTAL DEPTH: 400'

DRIILLER: Foreman/Coiz

GRID COORDINATES:

HOLE NO.: SHADOW -

ANGLE: -45°

DATE STARTED: 8/1/88

DRILL: BB-15

SCALE: 1" = 10'

LOCATION.: SHADOW

BEARING: N45W

DATE COMPLETED: 8/3/88

LOGGED BY: MAM

Sheet 1 of 6



HOLE # DDH-2 PROPERTY: SHADOW GRID COORDINATES: _____

<div>Cominco Alaska</div>			HOLE # <u>DDH-2</u>		PROPERTY: <u>SHADOW</u>		GRID COORDINATES: _____										
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
													Au	Au	Hg	Cu	
													ppm	ppm	ppm	ppm	
70	100								73' 1" chl-silicate altered zone								
74									74-79' - Rock has bleached white appearance - carbonate altered and veined				tr				
80	100								76' - 40° C/A carbonate & qz veins								
									80 - fresh black biotite. v.f.g. py. ep. with chlorite clots carb vein/fr x cuts chl veins				tr	tr			
89									Rock is still medium grained equigranular qz matrix w/ 1% 1/4" lath shaped feldspar phenos 1% 1/4" zoned liths, 5% fresh biotite, 12% qz veins. fine chlorite (autonomous?) commonly has trace amounts of ep. with it								
90	90								94. chl - fairly dark green Tomestade?				tr				
96																	
100	100								Dark albite qz all 50								
102									biotite → brownish chl @ 100' <div>North - 45 Corrected N43W - 45</div>								
106	100																
110	50								109 - 2mm qz vein to ep x cuts dark green chl veins				tr				
112									v. weak chl or qz veining								
114																	
120	60																
124																	
126.5									126 - REDRILL								
130									126.5 Phenocryst content increases slightly to 3-5% biotite still fresh. Some brown waxy clots								
131.5																	
134.5																	
136.5									136.5 - vertical carb fr 138.5 60° C/A carb veins alteration								
140																	

GMC Data Report 389

COMINCO ALASKA			
PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-2</u>	LOCATION: <u>SHADOW</u>	
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>N45°W</u>	
TOTAL DEPTH: <u>460'</u>	DATE STARTED:	DATE COMPLETED:	
DRILLER: <u>Foreman / Cole</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>MAM</u>	
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>2</u>	of <u>6</u>

COMINCO ALASKA

PROPERTY: <u>Timore Creek</u>	HOLE NO.: <u>DDA-2</u>	LOCATION.: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>N45°W</u>
TOTAL DEPTH: <u>460'</u>	DATE STARTED:	DATE COMPLETED:
DRILLER: <u>Forreman, Cole</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>MAM</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>2</u> of <u>6</u>

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION						MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS			
										sil	log	Sr	FeO	carb	alum			Au ppb	Au opt	Ag ppm	Cu ppm
140									142.5 - biotite completely destroyed to brown chl 1/2" zone												
147	100																				
150	100																				
152	80																				
157	100								slight alignment 50° d/a of feldspars sparse thin qz veins												
160	90																				
167	100																				
170	100								173' - 20° d/a carb vein												
177																					
180									From 181.5-203' FAULT / EX ZONE?												
184									181.5-183.5 - broken calc-clayey feldspars are clay altered, some with bluish tinge (Biotite → brownish)								405786 (5')	4000	.07	0.6	710
190									188'-191' - clay altered and sheared texture destroyed								405787 (10')	980		1.0	783
196	90																405788 (9')	612		0.5	497
200	90								Broken core 203' Biotite becomes pegmatite - traces of chl some slightly rather brown. Rock cross cut by thin (mm) qz veins								405789 (8')	980		0.6	436
210	100								@ 210' clay alt picked up feldspars pinkish biotite slightly embellized												

GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>TIMBER CREEK</u>	HOLE NO.: <u>DDH-2</u>	LOCATION.: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>N45W</u>
TOTAL DEPTH: <u>400'</u>	DATE STARTED:	DATE COMPLETED:
DRILLER: <u>FOREMAN / COLE</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>VIAVI</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>3</u> of <u>6</u>



HOLE # DDH-2 PROPERTY: SHADOW GRID COORDINATES: _____

Box #24 | Box #23 | #22

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Continued next page

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-2</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-15°</u>	BEARING: <u>N45W</u>
TOTAL DEPTH: <u>400'</u>	DATE STARTED:	DATE COMPLETED:
DRILLER: <u>FOREMAN / COLE</u>	DRILL:	LOGGED BY: <u>MM</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>46</u> of <u>6</u>



HOLE # DDH #2

PROPERTY: SHADOLE

GRID COORDINATES:

Cominco Alaska																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.		Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION					MINERALIZATION				SAMPLE NOS. (SPLITS)	ASSAY RESULTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDA-2	LOCATION.: SHADOLE
ELEVATION: 5250'	ANGLE: 45	BEARING: 045W
TOTAL DEPTH: 460'	DATE STARTED:	DATE COMPLETED:
DRILLER: Foreman / Cole	DRILL: B6.15	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1"=10'	Sheet 5 of 6



HOLE # DDH #2 PROPERTY: SHADOW GRID COORDINATES: _____

Box #32
Box #33
Box #34
Box #35
Box #36
Box #37
Box #38
Box #39

GOMCONO ALASKA														ASSAY RESULTS				
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION		MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
										K	SR			Au	Ag	Cu		
300									300' - 1/4" bluish, silty, impure, open, brittle, locally altered; basically equigranular, fine	cl	502	sr	300	405779 (45)	600	2.4	255	
301	100																	
302.5	100								302.5 - 0" ch silty zone									
303.5					92		0-10		303.5 - 1" wide zone of silty of st. ch. silty				303.5					
304.5	90													405760 (75)	118	2.4	99	
310																		
311.5	90												311.5	405761 (55)	138	2.4	112	
317									317.5 - 1.5" ch-qtz vein w 3-5% cp	50			317	405773 (31)	240	2.4	77	
320	100												320					
321.5	100								322.5 - 324.5 white carbonate altered zone - structure?									
330	100																	
334	100																	
339																		
340	100								340-352' rock weakly foliated & cut by brown, oil green, 1/2" brownish veins; 1/4" brown veins; the darker green veins									
343	100								trace w. oil veins									
346	100								20" ch. ch. carb. veins - structure									
350	100								Broken, clayey zone									
355									~ 354' Keweenaw brown oil / brittle veins									
360	80								at out sparse oil / qz veins still									
363									Bedrock weakly altered to clay									
370									369' 20" ch. 1" qz vein				369	405762	330	2.4	94	

GMC Data Report 389

GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>Timberline Creek</u>	HOLE NO.: <u>DDH-2</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>145 W</u>
TOTAL DEPTH: <u>400'</u>	DATE STARTED:	DATE COMPLETED:
DRILLER: <u>Foreman / Coe</u>	DRILL: <u>DB-15</u>	LOGGED BY: <u>MAM</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>6</u> of <u>6</u>



HOLE # DDH 2 PROPERTY: Shadow GRID COORDINATES: _____

Box #43 Box #42 Box #41 Box #40

GOMCO ALASKA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION					MINERALIZATION			SAMPLE NOS. (SPLITS)	ASSAY RESULTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
										chl	K	SO ₂	Si	Al ₂ O ₃	carb	clay	Pt		CP	RD	Av	Av	Ag	Cu																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
370									intrusive with relatively "spungy granular" with slight iron in xenoliths; sparse chl veins																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

@ 400' N43W/-46 corrected N43W/-46

COMINCO ALASKA

PROPERTY: <u>Timber Cove</u>	HOLE NO.: <u>DDH-2</u>	LOCATION.: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>N45W</u>
TOTAL DEPTH: <u>400'</u>	DATE STARTED:	DATE COMPLETED:
DRILLER: <u>Forsman/Corse</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>MAM</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>6</u> of <u>6</u>



HOLE # DDH-3 PROPERTY: SHADOW GRID COORDINATES: _____

Cominco Alaska																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION					MINERALIZATION					SAMPLE NOS. (SPLITS)	ASSAY RESULTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-3</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>S 50W</u>
TOTAL DEPTH: <u>313'</u>	DATE STARTED: <u>8/3/88</u>	DATE COMPLETED: <u>8/7/88</u>
DRILLER: <u>Boorman/Co</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>NAM</u>
GRID COORDINATES:	SCALE: <u>1" = 10'</u>	Sheet <u>1</u> of <u>3</u>

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION					MINERALIZATION				SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
										Chl	Gr	Kfs	Sr	Tr	Py	Ep	Py	Tr		Ag	Au	Ag	Cu	
70									Some chl veins to 1/2 ft py-ep 1/2 foot max. w/ in matrix. Matrix section.											ppb	opt	ppm	ppm	
74	100								blende relatively fresh compared to chl in matrix															
76																								
80	100		SR						81' brownish chl veins x cut dark chl veins. chl veins bleached white.															
86	100								84' - ~40°C/a. Vague contact w/ feldspar periphyrite. qz m/z fewer mafics ~10%.															
90																								
91	100						92	50°	fine to med. grained relatively equigranular feldspar-chlorite-quartz biotite - qz m/z 1/2" xenoliths. Biotite starting to go to chlorite.										465767 (6')	226		0.8	135	
95	100								93' - Feoxy stained, almost texturally destroyed to chlorite and chlorite - 1/2'.															
100	100								feldspar whitish - clay alt.															
102.5	100								102.5 - 103.5 thin sericite zone - 50°C/a.										102.5 - 405770 (1')	322		0.5	157	
107	100								upto 1" Xenoliths of bleached hornfels.															
108									108.5 - 20°C/a bleached carbonate streak vein/zone.															
110	90																							
113	80																							
116									116-120 chlonite gook usocked - microblast - feldspar fuzzy - biotite - fuzzy brown.															
120	95																							
123.5									120-134 Fresh biotites coarse blue-green chl opening to traces of ep.															
125	90																							
130	100																							
132									300°C/a qz veinlet.															
139.5	100																							
140									134-144' feldspar fuzzy and biotite less distinct.															

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-3</u>	LOCATION.: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45°</u>	BEARING: <u>550W</u>
TOTAL DEPTH: <u>313'</u>	DATE STARTED: <u>8/3/88</u>	DATE COMPLETED: <u>8/7/88</u>
DRILLER: <u>FORMAN/CALZ</u>		LOGGED BY: <u>MAM</u>
GRID COORDINATES:	SCALE: <u>1"=10'</u>	Sheet <u>2</u> of <u>3</u>

										ASSAY RESULTS														
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract	Filled Fract	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION				MINERALIZATION				SAMPLE NOS. (SPLITS)	ASSAY RESULTS					
										K ⁺	Na ⁺	Ca	Mg	Py	Sp	Po	As		Ag	Cu	Au	wt	wt	
140	100									CHL, Sph, SK, Sph, calc, clay	Py	Sp	Po	As		ppm	ppm	ppm	ppm					
145	100								144' 1/2 foot biotite xenolith ~144-147 rock same as 145 less altered Biotite are fresher; feldspars less altered															
150	100								bluish green biotite xenoliths x cut green chl xenoliths															
151.5	100																							
153.5	100																							
160	100																							
163.5	100																							
166	100																							
170	100								165-165' feldspars are clay altered, brownish-chl xenoliths															
177	100																							
180	100		SK				92.0		equigranular to locally porphyritic qz-mz biotite - brown & rather looking chlorite is brighter green. cp picks up @ 180' in chl eld. veins cp in thin veins @ 60° c/a & w/ chl @ 200° c/a local porphyritic c/a						405771 (5.5)	11660	0.042	2.4	1050	0.23	5.1			
183.5	50								@ 185' 20° c/a contact between bleached qz-mz old biotite - chl and possibly deformed qz chl altered zone - w/ Feoxy staining 1/2 foot						405772 (2.2)	2000	0.048	2.7	1360	0.149	2.9			
186.0	50								185.7 Proterophane pickup - contact obscured by lichen core 5° c/a						405773 (0.8)	121700	0.497	9.7	4910	0.399	3			
190	50								186.5-190 very leucocratic zone 1/2 biotite fr 1 to 50° c/a mz - 1-2' Feoxy staining						405774 (3.5)	5600	0.156	4.5	1220	0.516	4.2			
194	110		SK				60		146' - 50° c/a 1" Bushy Feoxy alt 2 structures from 197 on biotite becomes fresher						405775 (4)	22300	0.631	9.6	6230	2.548	20.6			
200	110						92		traces of cp to biotite & greenish brownish chl						405776 (2)	9820	0.303	7.5	6110	0.606	12.2			
204	130		SK												405777 (3)	1360	0.033	2.4	1760	0.111	6.5			
209.5	100														405778 (5)	736		1.5	835					
210	100														405779 (4)	580		1.9	966					

532W1-45
corrected
557W1-45

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDH-2	LOCATION: Shadow
ELEVATION: 5250'	ANGLE: -45°	BEARING: S 50 W
TOTAL DEPTH: 33'	DATE STARTED: 8/3/88	DATE COMPLETED: 8/7/88
DRILLER: Foreman, Cole	DRILL: 1" = 10'	LOGGED BY: MM
GRID COORDINATES:	SCALE:	Sheet 3 of 7

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
													Au	Ag	Cu	wt	
210																	
211																	
220																	
221																	
222																	
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227																	
228																	
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COMINCO ALASKA	HOLE NO.: DDH-3	LOCATION: SHADOW
PROPERTY: TIMBER CREEK	ANGLE: -45	BEARING: S 50W
ELEVATION: 5250'	DATE STARTED:	DATE COMPLETED:
TOTAL DEPTH: 313'	DRILL: TORRENTIAL COLE	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1" = 10'	Sheet 4 of 5



HOLE # DDH #3 PROPERTY: SHADOW GRID COORDINATES: _____

Continued Alaska

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION						MINERALIZATION			SAMPLE NOS. (SPLITS)	ASSAY RESULTS						
										chl	sil ¹	sr	sil ²	carb	clay	py	cp	po		mu	ag	cu				
280																										
100									284- 1' qz-ene sr vein to up to 1% cp			1%				405901 (BB)										
289									qz-ene veinlets			tr				281.5										
290	100		sk																							
291												tr														
100																										
298												tr														
300									@ 300'	SSW 1-44 corrected SSW 1-44																
80												tr														
308-309			sk						308-309' feldspar porphyry? and/or chert? ex. siliceous v. fine grained matrix to mm feldspar? biotite microcrysts. qz mte heavily sil veined adj. to chert & all veins have to go.																	
309	80																									
310																										
312	100																									
313									T.O. 313' No start left in hole																	

GMC Data Report 389

GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-2</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>5250'</u>	ANGLE: <u>-45</u>	BEARING: <u>S 50 W</u>
TOTAL DEPTH: <u>313'</u>	DATE STARTED: <u>8/6/88</u>	DATE COMPLETED: <u>8/7/88</u>
DRILLER: <u>Freeman / Cole</u>	DRILL: _____	LOGGED BY: <u>MAN</u>
GRID COORDINATES: _____	SCALE: <u>1" = 10'</u>	Sheet <u>5</u> of <u>5</u>



Cominco Alaska

HOLE # DDH-4

PROPERTY: SHADOW

GRID COORDINATES: _____

Box #1 Box #2 Box #3 Box #4 Box #5 Box #6 Box #7 Box #8

Comino Alaska																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION							MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
										K ⁺	Na ⁺	Ca ²⁺	Mg ²⁺	Fe ²⁺	Fe ³⁺	Al ³⁺			Au	Ag	Cu																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-4</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>5200'</u>	ANGLE: <u>-60°</u>	BEARING: <u>N50E</u>
TOTAL DEPTH: <u>350'</u>	DATE STARTED: <u>9/7/88</u>	DATE COMPLETED: <u>8/9/88</u>
DRILLER: <u>FOREMAN COLE</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>MAM</u>
GRID COORDINATES: _____	SCALE: <u>1" = 10'</u>	Sheet <u>1</u> of <u>5</u>

HOLE # DDH-4PROPERTY: SHADOW

GRID COORDINATES: _____

Box #15 | Box #14 | Box #13 | Box #12 | Box #11 | Box #10 | Box #9 | Box #8

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION				MINERALIZATION			SAMPLE NOS. (SPLITS)	ASSAY RESULTS			
										Chl	K ⁺	SiO ₂	Gr	SiO ₂	Carb	clay		Au	Au	Ag	Cu
70	70								Very dark green chl veins - 2-3 mm to up to 1" ap												
72	100								Slip - 10-20° c/a												
76									77' - 45° c/a carbonate alt. shear								405962 (8.5')	564	0.9	379	
80	100								78' - Shale of qz-chl veins - fr. py. ap. 35° c/a xcuts 8 off sets 46° c/a veins												
84									qz monzonite containing up to 2% 1/4" biotite xenoliths - rounded. Biotite fresh, chlorite in matrix. V.f.g. granular SiO ₂ K ⁺ alt?								405963 (7.5')	1002	0.8	440	
88	100								88-91 - sericite / quartz / minor chl alteration - grey green to mottled grey staining xcut py. thin qz vein in trap								405964 (3.0)	380	0.7	200	
92	70								~93' - Biotite starting to become ragged & brown								405965 (4.0)	2400	1.4	722	
96	100								95' core skewed up / clay alt? fault?								405966 (6.0)	352	0.9	226	
100									103' large xenolith								405967 (5.0)	306	1.4	244	
104	90																405968 (1.0)	1880	4.7	898	
108	90								~111' mafic content decreases a few % to 10%								405969 (9.5)	316	0.6	269	
112									116' - carbonate veining; broken core												
116	100								118.5 - Vuggy contact between equigranular (>1% feldspar) and fine mottled light grey sericite-quartz-chlorite alteration - few staining areas are locally carbonate								405970 (3.5)	240	0.7	201	
120	100								@ 122' 60-40° c/a clay altered qz mz trace ep. py. po								405971 (3.0)	880	1.1	411	
124	100								@ 125' clay altered shear zone?								405972 (4.0)	340	0.5	217	
128	90								129' - qz mz feldspar porphyritic (11%)								405973 (3.5)	244	0.5	191	
132	90								137' - biotites are altered to brownish chlorite then white carbonate veins xenith qz mz								405974 (5.5)	184	1.4	167	
136																					
140									137' mottled unmineralized grey pervasively sericite-carbonate altered qz mz to traces of sulfide												

GMC Data Report 389

COMINCO ALASKA

PROPERTY: <u>Timber Creek</u>	HOLE NO.: <u>DDH-4</u>	LOCATION: <u>Shadow</u>
ELEVATION: <u>3000</u>	ANGLE: <u>-60°</u>	BEARING: <u>N50°E</u>
TOTAL DEPTH: <u>350'</u>	DATE STARTED: <u>8/7/88</u>	DATE COMPLETED: <u>8/19/88</u>
DRILLER: <u>Forreman/Colz</u>	DRILL: <u>BB-15</u>	LOGGED BY: <u>MAM</u>
GRID COORDINATES: _____	SCALE: <u>1" = 10'</u>	Sheet <u>2</u> of <u>5</u>



GRID COORDINATES :

GMC Data Report 389

PROPERTY:	Timber Creek	HOLE NO.:	DDH-4	LOCATION:	Shadow
ELEVATION:		ANGLE:	-60°	BEARING:	N50°E
TOTAL DEPTH:	350'	DATE STARTED:	8/7/88	DATE COMPLETED:	8/9/88
DRILLER:	Foreman / Cole	DRILL:	BG-15	LOGGED BY:	man
GRID COORDINATES:		SCALE:	1" = 10'	Sheet	3 of 5

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION				MINERALIZATION			SAMPLE NOS. (SPLITS)	ASSAY RESULTS			
										Chl	K ⁺	SiO ₂	Fe	Py	Qz	Po		Au	Au	Ag	Cu
210									eqw granular qz m; biotites are fatty brown						tr		405980 (7.5)	ppb	ppt	ppm	ppm
213	100														tr		405981 (9.0)	456		2.4	177
220									221 - qz bleb w 1-2% op						tr		405982 (9.0)	436		0.6	247
222	100														tr						
229									228.5 0°C/A qz veins w/ 1% op						1%		405983 (10.0)	232		2.4	173
230	100								qz veins 0°C/A from 234.5 - 238.5						tr						
239									@240 - sericite-quartz etc alteration 4°C/A								405984 (5.0)	540		2.4	228
240	100																405985 (10.0)	264		.4	146
249									240 - 256 - clay altered sheared zone? Xcut by fine vuggy qz veins												
250																					
259	100																405986 (6.0)	140		2.4	112
269																	405987 (6.0)	106		2.4	79
279	100																				
289																					
290	100																				
297																					
298	100																				
299																					
300																					

GMC Data Report 389

COMINCO ALASKA

PROPERTY: Timber Creek	HOLE NO.: DDH-4	LOCATION.: Shadow
ELEVATION:	ANGLE: -60°	BEARING: 250°
TOTAL DEPTH: 350'	DATE STARTED: 8/7/88	DATE COMPLETED: 8/10/88
DRILLER: FOREMAN/COLE	DRILL: BB-15	LOGGED BY: MAM
GRID COORDINATES:	SCALE: 1"=10'	Sheet 4 of 5

HOLE # DDH-4PROPERTY: SHADOW

GRID COORDINATES: _____

DEPTH	% RECOVERY	GRAPHIC LOG	COLOR	Open Fract.	Filled Fract.	Fracture Filling	Dip	Structure	DESCRIPTION	ALTERATION	MINERALIZATION	SAMPLE NOS. (SPLITS)	ASSAY RESULTS				
													Au ppb	Au opt	Ag ppm	Cu ppm	
280										Qtz, Sil, Gr, Sil, Carb, Chy	Py, Cp, Pol, Agn						
282	100								chlorite-qz stock-worked equigranular qz mte Some fresh biotite; some (50%) altered to chlorite		tr	282					
285	100											405988 (8.0)	160		2.4	1850	
286.5	100																
290	100																
295	100																
300	100																
305	90								biotite altered to K-brown chl- ↓								
309	100																
310	100								311-324 Sericite-qz-chl altered - K-brown biotite / indistinguishable traces cp, py, ds disseminations		tr tr	311	405989 (4)	224	2.4	109	
315	90											315					
318	90								chlorite alteration picks up to 324'		tr tr		405990 (6.0)	260	2.6	84	
320	90											321					
324	100										tr tr		405991 (5.0)	314	0.6	132	
328	100											326					
330	100								2mm qz veins from 331-333 - tr cp		tr		405992 (2.0)	336	2.4	111	
333	100											333					
338	100												405993 (8.3)	200	2.4	106	
340	100																
341.5-342									orange waxing sericite-carb			341.5	405994 (0.5)	646	1.8	212	
344									chl altered qz mte w/ qz vein traces			342.0	405995 (3.0)	1056	2.4	54	
345									dk grey brecciated qz mte - test destroyed			345.0	405996 (5.0)	540	.8	482	
350												355					

GMC Data Report 389

T.O. 350' No shell left in hole

N278/30
corrected
N522/30

COMINCO ALASKA

PROPERTY: <u>Shadow</u>	HOLE NO.: <u>DDH-4</u>	LOCATION: <u>SHADOW</u>
ELEVATION: <u>350'</u>	ANGLE: <u>-60°</u>	BEARING: <u>N50E</u>
TOTAL DEPTH: <u>350'</u>	DATE STARTED: <u>8/19/88</u>	DATE COMPLETED: <u>8/19/88</u>
DRILLER: <u>Joernsen</u>	DRILL: <u>B3-15</u>	LOGGED BY: <u>Mam</u>
GRID COORDINATES: _____	SCALE: <u>1" = 10'</u>	Sheet <u>5</u> of <u>5</u>