

DAV-94-40

Blackwater

881051

Dave Fleming likes this hole (porphyry assn.?)



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
VANCOUVER, BC
V6C 3E8

Project : 120
Comments: CC: WARREN BATES

Page Number 4-A
Total Pages 8
Certificate Date 03-JAN-95
Invoice No. I-9433125
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
39064	205 294	< 5	3.55	16	140	< 0.5	< 2	1.44	< 0.5	11	32	20	3.74	< 10	< 1	1.18	< 10	0.88	760	2
39065	205 294	< 5	3.76	< 2	120	< 0.5	< 2	0.91	< 0.5	16	37	22	5.07	10	< 1	1.90	< 10	1.23	945	4
39066	205 294	< 5	3.95	< 2	130	< 0.5	< 2	1.36	< 0.5	9	46	2	3.47	10	< 1	1.51	10	1.19	735	4
39067	205 294	< 5	3.40	4	130	< 0.5	< 2	1.33	< 0.5	8	38	10	3.49	< 10	< 1	1.33	< 10	1.06	665	6
39068	205 294	< 5	3.55	4	140	< 0.5	< 2	1.05	< 0.5	9	37	15	4.12	10	< 1	1.58	< 10	1.05	765	14
39069	205 294	< 5	3.63	< 2	100	< 0.5	2	1.04	< 0.5	10	31	39	3.93	10	< 1	1.41	< 10	1.11	690	10
39070	205 294	< 5	3.70	32	140	< 0.5	< 2	1.92	< 0.5	10	22	18	4.12	< 10	< 1	1.62	< 10	1.04	850	10
39071	205 294	< 5	4.18	14	150	0.5	< 2	1.29	< 0.5	13	27	95	4.50	10	< 1	1.31	< 10	1.09	725	16
39072	205 294	< 5	3.70	14	110	0.5	< 2	1.50	0.5	9	35	111	3.92	10	< 1	1.03	10	1.06	530	10
39073	205 294	< 5	3.77	< 2	100	< 0.5	2	1.55	0.5	9	48	116	3.98	10	< 1	0.98	< 10	1.01	495	13
39074	205 294	20	2.84	636	100	< 0.5	2	1.49	0.5	9	27	65	4.10	< 10	< 1	1.33	< 10	0.83	1165	12
39075	205 294	15	3.24	296	90	< 0.5	< 2	1.24	0.5	6	34	10	3.56	< 10	< 1	1.40	< 10	0.90	720	10
39076	205 294	< 5	3.46	< 2	100	< 0.5	< 2	1.08	< 0.5	8	24	11	3.72	< 10	< 1	1.47	< 10	0.90	710	10
39077	205 294	< 5	3.02	< 2	90	< 0.5	2	0.82	0.5	7	36	34	3.81	< 10	< 1	1.41	< 10	0.90	595	11
39078	205 294	< 5	3.02	34	90	< 0.5	< 2	0.99	0.5	8	31	32	3.87	< 10	< 1	1.44	< 10	0.83	540	10
39079	205 294	< 5	3.30	154	80	< 0.5	< 2	1.56	< 0.5	8	26	50	3.77	< 10	< 1	1.07	< 10	0.92	620	8
39080	205 294	< 5	3.52	8	80	< 0.5	< 2	1.24	0.5	7	52	37	3.31	< 10	< 1	1.29	< 10	1.01	515	10
39081	205 294	< 5	5.05	4	100	0.5	< 2	1.78	< 0.5	7	87	69	3.27	10	< 1	1.37	< 10	1.21	525	4
39082	205 294	< 5	3.36	< 2	110	< 0.5	< 2	1.05	< 0.5	7	46	37	3.75	10	< 1	1.21	< 10	0.77	695	9
39083	205 294	< 5	3.02	4	80	0.5	2	0.96	< 0.5	9	31	113	4.02	< 10	< 1	0.66	< 10	0.71	460	12
39084	205 294	< 5	2.75	4	110	< 0.5	< 2	0.77	< 0.5	4	25	106	3.67	< 10	< 1	0.93	< 10	0.70	490	9
39085	205 294	< 5	2.94	2	110	< 0.5	< 2	0.86	< 0.5	4	49	27	2.45	< 10	< 1	0.79	< 10	0.74	380	5
39086	205 294	< 5	3.17	< 2	60	0.5	< 2	1.37	< 0.5	1	81	22	1.60	< 10	< 1	0.52	< 10	0.62	265	2
40011	205 294	< 5	1.49	2	40	< 0.5	< 2	0.32	< 0.5	3	73	18	1.83	< 10	< 1	0.71	< 10	0.28	605	3
40012	205 294	< 5	1.40	14	40	< 0.5	< 2	0.21	< 0.5	6	82	29	1.84	< 10	< 1	0.62	< 10	0.28	445	3
40013	205 294	< 5	1.77	2	40	< 0.5	< 2	0.30	< 0.5	3	69	9	1.96	< 10	< 1	0.73	< 10	0.32	470	1
40014	205 294	< 5	1.58	22	30	< 0.5	< 2	0.32	< 0.5	4	66	33	1.99	< 10	< 1	0.56	< 10	0.32	300	3
40015	205 294	< 5	1.11	6	30	< 0.5	< 2	0.19	< 0.5	1	75	16	1.21	< 10	< 1	0.44	10	0.21	130	1
40016	205 294	< 5	1.33	26	30	< 0.5	< 2	0.29	< 0.5	2	81	14	1.46	< 10	< 1	0.45	10	0.29	155	2
40017	205 294	< 5	1.77	30	30	< 0.5	4	0.47	< 0.5	6	78	48	2.18	< 10	< 1	0.55	< 10	0.31	205	3
40018	205 294	< 5	1.35	6	30	< 0.5	< 2	0.35	< 0.5	1	67	10	1.20	< 10	< 1	0.43	10	0.25	140	2
40019	205 294	< 5	1.14	70	20	< 0.5	2	0.29	< 0.5	2	56	85	1.45	< 10	< 1	0.22	< 10	0.22	75	1
40020	205 294	< 5	1.28	8	20	< 0.5	2	0.47	< 0.5	1	56	32	0.93	< 10	< 1	0.19	< 10	0.22	85	1
40021	205 294	< 5	1.09	6	30	< 0.5	< 2	0.37	< 0.5	< 1	66	26	0.89	< 10	< 1	0.15	< 10	0.20	85	1
40022	205 294	< 5	1.05	2760	20	< 0.5	2	0.27	< 0.5	11	44	35	1.73	< 10	< 1	0.31	< 10	0.27	115	3
40023	205 294	< 5	1.14	32	30	< 0.5	< 2	0.23	< 0.5	1	70	38	1.58	< 10	< 1	0.44	< 10	0.26	120	2
40024	205 294	< 5	1.06	6	30	< 0.5	< 2	0.23	< 0.5	1	59	14	1.13	< 10	< 1	0.40	< 10	0.22	110	1
40025	205 294	10	1.50	102	40	< 0.5	< 2	0.30	< 0.5	2	64	23	1.68	< 10	< 1	0.59	< 10	0.29	150	6
40026	205 294	< 5	1.53	54	30	< 0.5	< 2	0.38	< 0.5	8	90	69	2.31	< 10	< 1	0.67	< 10	0.45	170	3
40027	205 294	< 5	1.36	8	40	< 0.5	2	0.38	< 0.5	6	96	137	2.68	< 10	< 1	0.50	< 10	0.45	125	3

Handwritten scribbles and initials

DAV-94-39

Rock type change

DAV-94-40

Phreatic Bx - Assay Truff RBV BX

RHY Truff

40 BX

U1/U3/Y3 2:58PM CHEMEX LABS VHX-FHX PAGE 08

CERTIFICATION: _____



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CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
39064	205 294	0.33	2	1430	4	< 2	8	119	0.18	< 10	< 10	126	< 10	90	< 0.2	
39065	205 294	0.30	4	1110	< 2	6	8	92	0.23	< 10	< 10	101	< 10	104	< 0.2	
39066	205 294	0.43	3	1220	< 2	< 2	8	202	0.23	< 10	< 10	101	< 10	82	< 0.2	
39067	205 294	0.27	4	1060	4	< 2	8	106	0.21	< 10	< 10	116	< 10	72	< 0.2	
39068	205 294	0.36	3	1200	2	2	8	124	0.25	< 10	< 10	143	< 10	82	< 0.2	
39069	205 294	0.31	3	1230	< 2	4	8	171	0.24	< 10	< 10	128	< 10	76	< 0.2	
39070	205 294	0.29	6	1080	8	2	8	137	0.22	< 10	< 10	146	< 10	104	< 0.2	
39071	205 294	0.33	6	1300	2	2	9	202	0.19	< 10	< 10	194	< 10	76	< 0.2	
39072	205 294	0.38	4	1310	4	4	8	128	0.16	< 10	< 10	157	10	58	< 0.2	
39073	205 294	0.47	4	1150	< 2	< 2	6	156	0.16	< 10	< 10	134	20	54	< 0.2	
39074	205 294	0.23	3	1320	52	16	7	98	0.19	< 10	< 10	141	< 10	78	3.8	
39075	205 294	0.28	4	1190	< 2	< 2	7	78	0.21	< 10	< 10	117	< 10	128	< 0.2	
39076	205 294	0.21	3	1220	< 2	< 2	6	83	0.22	< 10	< 10	116	< 10	86	< 0.2	
39077	205 294	0.24	4	1240	2	< 2	8	98	0.23	< 10	< 10	123	< 10	74	< 0.2	
39078	205 294	0.31	3	1260	< 2	2	7	108	0.21	< 10	< 10	128	< 10	96	< 0.2	
39079	205 294	0.29	3	1320	2	6	6	94	0.16	< 10	< 10	113	< 10	68	< 0.2	
39080	205 294	0.42	2	870	4	< 2	4	110	0.16	< 10	< 10	77	< 10	92	< 0.2	
39081	205 294	0.68	4	570	< 2	2	4	178	0.13	< 10	< 10	63	< 10	66	< 0.2	
39082	205 294	0.33	4	1230	2	< 2	8	156	0.19	< 10	< 10	139	< 10	72	< 0.2	
39083	205 294	0.26	3	1240	6	< 2	6	217	0.11	< 10	< 10	119	< 10	64	< 0.2	
39084	205 294	0.25	3	910	2	< 2	5	112	0.14	< 10	< 10	99	< 10	52	< 0.2	
39085	205 294	0.33	3	490	4	< 2	2	128	0.09	< 10	< 10	42	< 10	44	< 0.2	
39086	205 294	0.45	2	210	6	< 2	1	187	0.04	< 10	< 10	29	< 10	32	< 0.2	
40011	205 294	0.13	11	310	2	< 2	1	39	0.09	< 10	< 10	22	< 10	60	< 0.2	
40012	205 294	0.08	13	240	2	2	1	28	0.07	< 10	< 10	18	< 10	46	< 0.2	
40013	205 294	0.11	15	250	4	< 2	2	42	0.09	< 10	< 10	29	< 10	40	< 0.2	
40014	205 294	0.11	15	410	2	< 2	3	38	0.08	< 10	< 10	37	< 10	32	< 0.2	
40015	205 294	0.11	6	170	< 2	< 2	< 1	34	0.05	< 10	< 10	4	< 10	26	< 0.2	
40016	205 294	0.13	9	260	2	2	1	43	0.07	< 10	< 10	16	< 10	20	< 0.2	
40017	205 294	0.17	16	490	2	< 2	3	53	0.07	< 10	< 10	40	< 10	34	< 0.2	
40018	205 294	0.16	7	260	4	< 2	1	86	0.05	< 10	< 10	14	< 10	30	< 0.2	
40019	205 294	0.13	2	200	4	2	< 1	51	0.01	< 10	< 10	2	< 10	28	< 0.2	
40020	205 294	0.18	1	180	6	< 2	< 1	60	0.02	< 10	< 10	3	< 10	22	< 0.2	
40021	205 294	0.14	1	250	2	< 2	1	52	0.02	< 10	< 10	4	< 10	22	< 0.2	
40022	205 294	0.09	3	150	2	2	1	28	0.02	< 10	< 10	7	< 10	24	< 0.2	
40023	205 294	0.10	4	240	2	< 2	1	38	0.05	< 10	< 10	9	< 10	24	< 0.2	
40024	205 294	0.10	2	150	2	< 2	< 1	36	0.04	< 10	< 10	4	< 10	18	< 0.2	
40025	205 294	0.13	5	190	2	< 2	< 1	56	0.05	< 10	< 10	7	< 10	24	< 0.2	
40026	205 294	0.15	13	600	2	4	7	37	0.11	< 10	< 10	68	< 10	26	< 0.2	
40027	205 294	0.11	15	730	2	2	9	30	0.10	< 10	< 10	93	< 10	22	< 0.2	

DAU-94-39

↑ rock type

Phredic (Tuff) BX

DAU-94-40 BX

RHY. Tuff BX

01/05/95 2:59PM CHEMEX LABS VAX-FAX

PAGE 09

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
40028	205 294	10	1.90	22	40 < 0.5	2	0.42 < 0.5	6	78	182	3.11 < 10	< 1	0.75 < 10	0.64	170	5				
40029	205 294	< 5	1.49	96	50 < 0.5	2	0.36 < 0.5	8	90	80	2.80 < 10	< 1	0.60 < 10	0.52	155	5				
40030	205 294	< 5	1.59	16	40 < 0.5	< 2	0.37 < 0.5	2	78	56	1.85 < 10	< 1	0.57 < 10	0.50	140	2				
40031	205 294	< 5	2.05	104	40 < 0.5	< 2	0.47 < 0.5	7	73	82	2.34 < 10	< 1	0.72 < 10	0.70	155	2				
40032	205 294	< 5	1.90	78	40 < 0.5	< 2	0.39 < 0.5	3	83	73	2.34 < 10	< 1	0.78 < 10	0.68	165	1				
40033	205 294	< 5	1.61	62	40 < 0.5	< 2	0.37 < 0.5	3	91	48	2.01 < 10	< 1	0.60 < 10	0.53	155	2				
40034	205 294	< 5	1.97	54	60 < 0.5	2	0.38 < 0.5	8	95	65	2.94 < 10	< 1	0.92 < 10	0.63	215	4				
40035	205 294	< 5	1.84	74	60 < 0.5	2	0.46 < 0.5	11	87	188	3.40 < 10	< 1	0.69 < 10	0.66	150	7				
40036	205 294	< 5	2.89	64	80 < 0.5	4	0.58 < 0.5	10	102	97	3.45 < 10	< 1	1.18 < 10	0.96	300	8				
40037	205 294	85	2.76	3540	90 < 0.5	14	0.66 < 0.5	17	91	90	3.42 < 10	< 1	1.32 < 10	0.98	260	6				
40038	205 294	10	2.43	64	90 < 0.5	2	0.59 < 0.5	8	101	46	2.83 < 10	< 1	1.15 < 10	0.83	275	9				
40039	205 294	< 5	3.02	64	90 < 0.5	< 2	0.82 < 0.5	8	110	36	2.91 < 10	< 1	1.20 < 10	0.97	315	5				
40040	205 294	< 5	3.54	68	100 < 0.5	2	1.06 < 0.5	9	113	47	3.44 < 10	< 1	1.21 < 10	1.11	345	5				
40041	205 294	< 5	3.80	92	100 < 0.5	4	1.12 < 0.5	10	112	111	3.48 < 10	< 1	1.20 < 10	1.13	350	4				
40042	205 294	< 5	3.91	54	130 < 0.5	6	1.12 < 0.5	9	123	103	4.02 < 10	< 1	1.42 < 10	1.25	385	4				
40043	205 294	< 5	3.76	60	120 < 0.5	4	1.12 < 0.5	9	116	77	3.46 < 10	< 1	1.30 < 10	1.15	305	4				
40044	205 294	< 5	3.07	40	100 < 0.5	< 2	0.81 < 0.5	9	125	31	2.83 < 10	< 1	1.14 < 10	0.99	325	5				
40045	205 294	< 5	3.24	50	100 < 0.5	2	1.18 < 0.5	8	106	62	3.24 < 10	< 1	1.11 < 10	1.05	340	4				
40046	205 294	< 5	3.85	48	130 < 0.5	4	1.05 < 0.5	10	119	93	4.13 < 10	< 1	1.46 < 10	1.25	380	5				
40047	205 294	< 5	3.25	80	120 < 0.5	2	0.97 < 0.5	7	112	57	3.08 < 10	< 1	1.17 < 10	1.00	275	5				
40048	205 294	15	4.45	150	160	0.5	6	1.37 < 0.5	9	116	122	4.45 < 10	< 1	1.35 < 10	1.30	325	4			
40049	205 294	45	3.89	42	140 < 0.5	8	1.11 < 0.5	8	126	148	4.10 < 10	< 1	1.20 < 10	1.21	260	6				
40050	205 294	40	4.17	36	120 < 0.5	14	1.13 < 0.5	9	114	270	4.70 < 10	< 1	1.35 < 10	1.34	230	10				
40051	205 294	20	3.53	56	120 < 0.5	6	1.17 < 0.5	7	99	214	4.07 < 10	< 1	1.18 < 10	1.16	220	4				
40052	205 294	10	3.39	196	130 < 0.5	4	1.10 < 0.5	11	120	84	3.35 < 10	< 1	1.05 < 10	1.04	235	6				
40053	205 294	< 5	2.94	132	100 < 0.5	4	0.85 < 0.5	10	102	168	4.10 < 10	< 1	1.07 < 10	1.00	210	5				
40054	205 294	< 5	3.32	122	110 < 0.5	2	0.87 < 0.5	8	110	56	3.24 < 10	< 1	1.07 < 10	1.03	250	3				
40055	205 294	25	2.61	66	90 < 0.5	2	0.79 < 0.5	9	95	55	3.08 < 10	< 1	1.14 < 10	0.93	290	4				
40056	205 294	< 5	2.57	204	110 < 0.5	< 2	0.67 < 0.5	10	101	15	2.59 < 10	< 1	1.24 < 10	0.89	290	4				
40057	205 294	< 5	2.58	22	110 < 0.5	2	0.79 < 0.5	9	78	137	3.40 < 10	< 1	0.93 < 10	0.85	255	4				
40058	205 294	< 5	2.80	74	80 < 0.5	2	3.44 < 0.5	10	77	110	3.27 < 10	< 1	1.03 < 10	0.92	330	19				
40059	205 294	55	2.85	56	80 < 0.5	10	4.87 < 0.5	6	79	141	3.14 < 10	< 1	0.98 < 10	0.98	305	3				
40060	205 294	< 5	2.79	68	80 < 0.5	2	0.98 < 0.5	6	94	78	2.81 < 10	< 1	0.82 < 10	0.82	235	4				
40061	205 294	40	3.12	1280	80 < 0.5	10	1.45 < 0.5	14	103	113	3.49 < 10	< 1	0.93 < 10	0.95	260	4				
40062	205 294	10	2.77	164	80 < 0.5	2	1.06 < 0.5	7	110	86	2.91 < 10	< 1	0.86 < 10	0.92	210	6				
40063	205 294	< 5	2.72	140	80 < 0.5	< 2	0.90 < 0.5	6	117	58	2.75 < 10	< 1	0.74 < 10	0.83	245	4				
40064	205 294	< 5	3.79	90	100 < 0.5	4	0.80 < 0.5	5	77	285	5.72 < 10	< 1	1.69 < 10	1.52	290	3				
40065	205 294	20	2.92	570	120 < 0.5	2	0.90 < 1.0	19	90	129	3.62 < 10	< 1	1.00 < 10	1.17	295	3				
40066	205 294	< 5	2.41	158	230 < 0.5	8	1.03 < 0.5	9	54	74	4.40 < 10	< 1	0.98 < 10	1.41	495	1				
40067	205 294	< 5	3.14	190	140	0.5	4	2.72 < 1.0	7	37	67	3.59 < 10	< 1	0.79 < 10	1.33	615	2			

+ replac. blebs
(py, po)

2% py+po

CERTIFICATION: _____

01/05/95 3:01PM CHEMEX LABS VAX-FAX PAGE 10



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CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
40028	205 294	0.15	14	560	< 2	< 2	7	37	0.10	< 10	< 10	70	< 10	32	< 0.2	
40029	205 294	0.12	20	680	< 2	< 2	9	33	0.11	< 10	< 10	95	< 10	32	< 0.2	
40030	205 294	0.14	10	370	6	2	3	57	0.07	< 10	< 10	33	< 10	68	< 0.2	
40031	205 294	0.19	10	280	2	< 2	4	61	0.08	< 10	< 10	34	< 10	32	< 0.2	
40032	205 294	0.17	9	260	4	< 2	3	47	0.08	< 10	< 10	32	20	44	< 0.2	
40033	205 294	0.14	11	400	2	< 2	6	40	0.09	< 10	< 10	51	< 10	46	< 0.2	
40034	205 294	0.12	21	600	< 2	< 2	8	35	0.13	< 10	< 10	84	< 10	34	< 0.2	
40035	205 294	0.11	26	830	2	< 2	9	31	0.12	< 10	< 10	96	< 10	28	< 0.2	
40036	205 294	0.20	36	630	2	2	11	49	0.14	< 10	< 10	110	< 10	52	< 0.2	
40037	205 294	0.26	36	640	2	2	12	63	0.16	< 10	< 10	112	< 10	44	< 0.2	
40038	205 294	0.21	34	590	2	< 2	7	56	0.14	< 10	< 10	82	< 10	54	< 0.2	
40039	205 294	0.30	34	580	< 2	< 2	11	79	0.15	< 10	< 10	109	< 10	52	< 0.2	
40040	205 294	0.40	38	600	2	< 2	12	79	0.14	< 10	< 10	109	< 10	64	< 0.2	
40041	205 294	0.35	39	650	2	< 2	12	81	0.14	< 10	< 10	116	< 10	62	< 0.2	
40042	205 294	0.41	36	560	2	< 2	11	94	0.16	< 10	< 10	109	< 10	66	< 0.2	
40043	205 294	0.33	35	580	2	2	11	74	0.15	< 10	< 10	111	< 10	52	< 0.2	
40044	205 294	0.28	41	600	4	< 2	12	67	0.15	< 10	< 10	115	< 10	50	< 0.2	
40045	205 294	0.24	38	600	2	2	12	58	0.14	< 10	< 10	114	< 10	54	< 0.2	
40046	205 294	0.40	39	590	2	< 2	12	77	0.16	< 10	< 10	113	< 10	74	< 0.2	
40047	205 294	0.34	37	570	2	< 2	12	77	0.15	< 10	< 10	108	< 10	50	< 0.2	
40048	205 294	0.50	38	610	4	2	13	97	0.16	< 10	< 10	121	< 10	62	< 0.2	
40049	205 294	0.41	36	580	6	4	12	76	0.16	< 10	< 10	113	< 10	52	< 0.2	
40050	205 294	0.44	35	600	4	< 2	11	81	0.15	< 10	< 10	107	10	46	< 0.2	
40051	205 294	0.29	33	570	4	< 2	11	76	0.13	< 10	< 10	101	< 10	44	< 0.2	
40052	205 294	0.32	34	690	< 2	2	12	77	0.14	< 10	< 10	116	< 10	42	< 0.2	
40053	205 294	0.32	36	680	14	< 2	11	68	0.14	< 10	< 10	113	< 10	72	< 0.2	
40054	205 294	0.28	34	710	6	< 2	12	81	0.14	< 10	< 10	124	10	44	< 0.2	
40055	205 294	0.18	33	700	2	< 2	12	49	0.15	< 10	< 10	120	< 10	48	< 0.2	
40056	205 294	0.24	35	690	4	< 2	10	66	0.16	< 10	< 10	110	< 10	52	< 0.2	
40057	205 294	0.16	30	790	4	4	8	46	0.12	< 10	< 10	97	< 10	44	< 0.2	
40058	205 294	0.18	30	680	14	2	11	50	0.13	< 10	< 10	118	< 10	52	< 0.2	
40059	205 294	0.18	24	580	2	< 2	10	48	0.13	< 10	< 10	100	< 10	40	< 0.2	
40060	205 294	0.21	23	610	< 2	4	12	55	0.13	< 10	< 10	113	< 10	40	< 0.2	
40061	205 294	0.24	28	590	2	4	10	51	0.13	< 10	< 10	105	< 10	38	< 0.2	
40062	205 294	0.25	29	690	2	< 2	13	52	0.14	< 10	< 10	126	< 10	40	< 0.2	
40063	205 294	0.21	29	760	6	< 2	13	57	0.13	< 10	< 10	130	< 10	40	0.6	
40064	205 294	0.29	32	730	12	2	11	60	0.17	< 10	< 10	111	10	72	< 0.2	
40065	205 294	0.18	30	910	< 2	< 2	13	51	0.18	< 10	< 10	132	< 10	56	0.2	
40066	205 294	0.07	15	1590	22	< 2	6	41	0.25	< 10	< 10	106	< 10	112	0.4	
40067	205 294	0.05	13	1600	8	< 2	3	49	0.17	< 10	< 10	90	< 10	152	0.3	

+ repl. blebs
 (py, po)

2% py + po

CERTIFICATION: _____

01/05/95 5:02PM CHEMEX LABS VAX-TAX PAGE 11



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Project: 120
 Comments: CC: WARREN BATES

Page Number 8-A
 Total Pages 8
 Certificate Date 03-JAN-95
 Invoice No. I-9433125
 P.O. Number :
 Account :

CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	
BX 2% PY+PO	40068	205 294	< 5	2.61	56	90	< 0.5	2	0.88	< 0.5	8	83	30	2.89	< 10	< 1	1.03	< 10	0.85	335	6
	40069	205 294	< 5	2.36	170	70	< 0.5	2	0.77	0.5	9	86	75	3.32	< 10	< 1	0.83	< 10	0.79	275	11
	40070	205 294	< 5	2.25	72	60	< 0.5	2	0.99	< 0.5	7	71	32	2.59	< 10	< 1	0.71	< 10	0.72	285	6
	40071	205 294	< 5	2.58	50	70	< 0.5	< 2	0.85	< 0.5	7	87	30	3.06	< 10	< 1	0.83	< 10	0.77	310	3
40072	205 294	< 5	2.38	162	40	0.5	2	0.84	< 0.5	7	75	26	2.32	< 10	< 1	0.66	< 10	0.66	455	2	
2-3% PY+PO	40073	205 294	20	2.23	328	40	0.5	< 2	1.36	1.0	7	63	29	2.37	< 10	1	0.63	< 10	0.60	675	1
	40074	205 294	10	2.37	66	60	< 0.5	< 2	1.07	< 0.5	7	78	48	2.49	< 10	1	0.65	< 10	0.69	360	1
	40075	205 294	< 5	2.36	56	60	< 0.5	< 2	0.79	< 0.5	7	81	50	2.97	< 10	< 1	0.90	< 10	0.80	380	1
	40076	205 294	10	1.77	222	50	< 0.5	< 2	0.85	< 0.5	7	54	14	2.44	< 10	< 1	0.71	< 10	0.47	475	1
	40077	205 294	< 5	2.23	170	30	0.5	< 2	1.60	< 0.5	6	36	12	2.34	< 10	< 1	0.54	< 10	0.49	1465	1
2-3% PY+PO	40078	205 294	30	2.10	466	60	0.5	2	1.42	< 0.5	7	48	41	2.96	< 10	< 1	0.69	< 10	0.70	745	1
	40079	205 294	130	1.59	2570	40	< 0.5	4	1.00	< 0.5	30	69	23	2.13	< 10	< 1	0.54	< 10	0.55	340	3
	40080	205 294	65	3.46	48	80	0.5	6	1.04	< 0.5	8	57	83	4.44	10	1	0.93	< 10	1.14	310	1
	40081	205 294	95	2.70	92	60	< 0.5	8	0.92	< 0.5	11	67	108	4.42	< 10	< 1	0.60	< 10	0.75	235	2
40082	205 294	45	2.59	292	100	< 0.5	4	0.87	0.5	12	86	75	4.39	10	< 1	0.84	< 10	0.82	315	2	
2-3% PY+PO	40083	205 294	25	3.02	100	120	< 0.5	2	1.13	< 0.5	7	76	66	4.53	< 10	1	1.08	< 10	0.92	605	2
	40084	205 294	15	2.74	180	130	< 0.5	< 2	0.68	< 0.5	10	89	37	3.93	< 10	< 1	1.19	< 10	0.98	320	2
	40085	205 294	10	3.18	70	110	< 0.5	< 2	0.78	0.5	8	82	60	4.43	10	2	1.12	< 10	1.01	305	14
	40086	205 294	< 5	2.50	878	80	< 0.5	< 2	1.16	1.0	8	94	23	2.85	< 10	< 1	0.86	< 10	0.74	285	3
	40087	205 294	20	3.05	86	100	< 0.5	2	1.03	< 0.5	7	100	64	3.67	< 10	< 1	0.84	< 10	0.77	220	2
2-3% PY+PO	40088	205 294	45	3.31	74	110	< 0.5	6	1.10	0.5	12	91	147	4.74	10	1	1.11	< 10	0.95	235	1
	40089	205 294	15	2.38	74	70	< 0.5	2	1.13	< 0.5	13	91	33	2.86	< 10	< 1	0.77	< 10	0.70	250	2

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Project: 120
 Comments: CC: WARREN BATES

Page Number 6-B
 Total Pages 6
 Certificate Date 03-JAN-95
 Invoice No. I-P433125
 P.O. Number :
 Account :

CERTIFICATE OF ANALYSIS A9433125

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
40068	205 294	0.20	25	660	2 < 2	13	54	0.15	< 10	< 10	113	< 10	44	< 0.2		
40069	205 294	0.15	27	700	4 < 2	12	43	0.13	< 10	< 10	117	< 10	40	0.2		
40070	205 294	0.18	21	620	2 < 4	9	49	0.10	< 10	< 10	88	< 10	42	< 0.2		
40071	205 294	0.24	23	550	< 2 < 2	10	67	0.12	< 10	< 10	89	< 10	42	< 0.2		
40072	205 294	0.13	20	530	2 < 2	7	41	0.08	< 10	< 10	68	< 10	36	0.6		
40073	205 294	0.13	23	560	58	4	8	53	0.07	< 10	< 10	70	< 10	110	7.0	
40074	205 294	0.13	22	670	2	2	9	41	0.10	< 10	< 10	83	< 10	36	0.2	
40075	205 294	0.15	19	500	12	4	8	43	0.12	< 10	< 10	76	< 10	44	< 0.2	
40076	205 294	0.09	19	530	4	4	4	34	0.07	< 10	< 10	49	< 10	52	0.7	
40077	205 294	0.04	20	560	10	4	6	35	0.02	< 10	< 10	45	< 10	114	0.9	
40078	205 294	0.12	17	570	20	8	6	42	0.06	< 10	< 10	56	< 10	48	14.3	
40079	205 294	0.15	23	520	2	2	8	42	0.07	< 10	< 10	74	< 10	34	0.3	
40080	205 294	0.38	18	440	4 < 2	8	75	0.10	< 10	< 10	69	< 10	60	< 0.2		
40081	205 294	0.26	24	620	6	4	9	62	0.10	< 10	< 10	89	< 10	42	< 0.2	
40082	205 294	0.26	28	700	4 < 2	12	57	0.14	< 10	< 10	113	< 10	50	< 0.2		
40083	205 294	0.29	29	740	2 < 2	12	80	0.15	< 10	< 10	109	< 10	58	< 0.2		
40084	205 294	0.24	29	620	< 2 < 2	12	50	0.17	< 10	< 10	105	10	52	< 0.2		
40085	205 294	0.29	28	570	2 < 2	11	61	0.14	< 10	< 10	97	< 10	52	< 0.2		
40086	205 294	0.23	32	600	2 < 2	11	55	0.12	< 10	< 10	98	< 10	42	< 0.2		
40087	205 294	0.33	32	620	10	2	12	80	0.14	< 10	< 10	109	< 10	42	< 0.2	
40088	205 294	0.39	34	620	4	4	12	81	0.15	< 10	< 10	108	< 10	44	< 0.2	
40089	205 294	0.24	36	650	2 < 2	12	67	0.13	< 10	< 10	109	< 10	42	< 0.2		

+ 2% pyro

2-3% pyro

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2G1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Page Number 1-A
 Total Pages 4
 Certificate Date 04-JAN-95
 Invoice No. I-9433324
 P.O. Number :
 Account :

Project : 120
 Comments: ATTN: V.P. VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
40090	205 294	40	3.68	144	120	0.5	4	1.31	< 0.5	15	115	93	4.58	10	< 1	1.03	< 10	0.95	270	1
40091	205 294	15	3.95	174	160	0.5	2	1.47	0.5	11	127	29	3.61	< 10	< 1	1.10	< 10	0.86	315	2
40092	205 294	25	3.50	156	160	< 0.5	< 2	1.44	0.5	9	116	48	3.46	< 10	< 1	0.93	< 10	0.76	285	3
40093	205 294	75	4.08	118	110	0.5	4	1.44	< 0.5	11	103	80	4.95	10	< 1	1.13	< 10	0.99	255	2
40094	205 294	45	3.40	224	100	< 0.5	4	1.77	< 0.5	14	99	157	5.42	< 10	< 1	1.12	< 10	0.86	220	2
40095	205 294	45	3.40	128	90	< 0.5	6	1.50	< 0.5	12	97	177	5.00	10	< 1	0.95	< 10	0.85	230	1
40096	205 294	50	3.58	174	90	0.5	6	0.95	< 0.5	10	96	187	5.86	10	< 1	1.17	< 10	1.04	290	35
40097	205 294	20	2.83	88	80	0.5	< 2	1.03	< 0.5	7	92	25	2.35	< 10	< 1	0.79	< 10	0.75	300	3
40098	205 294	10	2.53	28	50	0.5	< 2	1.00	< 0.5	3	65	21	2.34	< 10	< 1	0.69	< 10	0.76	340	< 1
40099	205 294	30	2.24	186	60	< 0.5	4	0.61	< 0.5	7	84	65	3.15	< 10	< 1	0.78	< 10	0.82	215	1
40100	205 294	20	2.59	94	60	< 0.5	2	0.71	< 0.5	8	81	81	3.31	< 10	< 1	0.74	< 10	0.76	230	1
40101	205 294	15	1.96	146	40	< 0.5	< 2	0.53	< 0.5	8	84	40	2.50	< 10	< 1	0.73	< 10	0.62	165	1
40102	205 294	75	2.23	64	60	< 0.5	4	0.68	< 0.5	14	93	53	3.08	< 10	< 1	0.72	< 10	0.63	220	1
40103	205 294	< 5	2.09	64	40	< 0.5	< 2	0.85	< 0.5	8	84	31	2.33	< 10	< 1	0.73	< 10	0.63	310	1
40104	205 294	< 5	1.91	36	60	< 0.5	< 2	0.57	< 0.5	7	85	30	2.09	< 10	< 1	0.78	< 10	0.51	230	1
40105	205 294	< 5	2.35	32	60	< 0.5	< 2	0.75	< 0.5	7	83	25	2.64	< 10	< 1	0.84	< 10	0.69	310	1
40106	205 294	< 5	1.80	14	70	< 0.5	< 2	0.40	< 0.5	6	69	9	1.98	< 10	< 1	0.85	< 10	0.40	305	1
40107	205 294	< 5	1.66	34	40	< 0.5	< 2	0.42	< 0.5	6	81	21	1.93	< 10	< 1	0.70	< 10	0.50	205	1
40108	205 294	< 5	2.02	72	60	< 0.5	4	0.65	< 0.5	7	77	67	2.85	< 10	< 1	0.82	< 10	0.66	220	1
40109	205 294	< 5	1.62	28	60	< 0.5	< 2	0.41	< 0.5	4	76	11	1.80	< 10	< 1	0.76	< 10	0.42	230	< 1
40110	205 294	< 5	2.11	26	40	< 0.5	< 2	0.68	< 0.5	7	94	10	1.99	< 10	< 1	0.81	< 10	0.57	350	1
40111	205 294	20	2.45	48	60	< 0.5	< 2	0.70	< 0.5	7	81	39	3.00	< 10	< 1	0.90	< 10	0.90	265	1
40112	205 294	< 5	1.92	170	50	< 0.5	< 2	0.50	< 0.5	4	86	7	1.71	< 10	< 1	0.71	10	0.56	225	1
40113	205 294	< 5	2.74	108	70	0.5	< 2	1.11	< 0.5	5	99	6	1.82	< 10	< 1	0.82	< 10	0.73	290	1
40114	205 294	< 5	3.38	84	80	0.5	< 2	1.55	< 0.5	7	75	27	2.63	< 10	< 1	1.02	< 10	0.79	490	1
40115	205 294	< 5	3.61	66	70	0.5	< 2	1.34	< 0.5	5	72	46	3.41	< 10	< 1	1.17	< 10	0.88	385	1
40116	205 294	< 5	4.41	116	80	0.5	< 2	1.58	< 0.5	7	57	51	3.81	10	< 1	1.34	< 10	1.02	390	2
40117	205 294	< 5	1.85	28	100	0.5	< 2	0.60	< 0.5	4	54	28	2.11	< 10	< 1	0.69	< 10	0.40	255	3
40118	205 294	< 5	2.90	72	180	< 0.5	< 2	0.96	< 0.5	11	67	31	3.70	< 10	< 1	1.25	< 10	0.67	370	3
40119	205 294	< 5	2.70	98	130	< 0.5	2	0.88	< 0.5	14	70	71	4.02	< 10	< 1	1.03	< 10	0.69	270	3
40120	205 294	20	2.47	130	90	< 0.5	6	0.76	< 0.5	18	91	136	4.64	< 10	< 1	0.93	< 10	0.62	235	4
40121	205 294	< 5	2.64	24	190	< 0.5	< 2	0.69	< 0.5	12	72	75	4.79	< 10	< 1	1.45	< 10	0.57	340	6
40122	205 294	< 5	3.11	36	260	< 0.5	< 2	0.63	< 0.5	14	76	38	4.91	< 10	< 1	1.65	< 10	0.66	475	6
40123	205 294	< 5	2.62	80	180	< 0.5	4	1.52	< 0.5	14	61	79	4.26	< 10	< 1	1.21	< 10	0.61	400	3
40124	205 294	< 5	2.78	58	220	< 0.5	< 2	0.72	< 0.5	11	87	39	4.17	< 10	< 1	1.42	< 10	0.68	365	5
40125	205 294	< 5	2.91	52	250	< 0.5	< 2	0.67	< 0.5	13	70	35	4.37	< 10	< 1	1.57	< 10	0.71	405	4
40126	205 294	< 5	3.23	52	290	< 0.5	< 2	0.80	< 0.5	14	75	35	4.46	< 10	< 1	1.57	< 10	0.72	500	4
40127	205 294	< 5	2.71	36	220	< 0.5	< 2	0.76	< 0.5	12	70	64	3.75	< 10	< 1	1.27	< 10	0.66	325	3
40128	205 294	< 5	1.21	< 2	40	< 0.5	4	0.56	< 0.5	8	61	179	2.64	< 10	< 1	0.20	< 10	0.45	135	2
40129	205 294	< 5	1.27	4	50	< 0.5	4	0.97	< 0.5	4	45	134	2.00	< 10	< 1	0.23	< 10	0.45	175	2

2-3% PZ, PO

BX-TUFF

ANDS
 + fm. PZ, PO (1-28)

01/05/95 2:32PM CHEMEX LABS VAX-FAX

PAGE 02

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Page Number 1-B
 Total Pages 4
 Certificate Date 04-JAN-95
 Invoice No. I-9433324
 P.O. Number :
 Account :

Project: 120
 Comments: ATTN: V.P. VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
40090	205 294	0.50	33	590	6	< 2	13	111	0.14	< 10	< 10	120	< 10	46	< 0.2	
40091	205 294	0.59	33	600	< 2	< 2	13	124	0.15	< 10	< 10	117	< 10	56	< 0.2	
40092	205 294	0.48	34	590	4	< 2	12	93	0.13	< 10	< 10	110	< 10	70	< 0.2	
40093	205 294	0.58	33	560	2	< 2	11	111	0.14	< 10	< 10	104	< 10	54	< 0.2	
40094	205 294	0.46	32	630	4	< 2	11	87	0.15	< 10	< 10	108	< 10	42	< 0.2	
40095	205 294	0.41	32	670	4	< 2	12	89	0.13	< 10	< 10	109	< 10	38	< 0.2	
40096	205 294	0.35	30	480	4	< 2	9	81	0.11	< 10	< 10	82	< 10	52	< 0.3	
40097	205 294	0.36	25	420	2	< 2	6	91	0.08	< 10	< 10	58	< 10	38	< 0.2	
40098	205 294	0.19	16	320	2	< 2	6	61	0.06	< 10	< 10	51	< 10	32	< 0.2	
40099	205 294	0.21	19	350	2	< 2	6	54	0.09	< 10	< 10	55	< 10	36	< 0.2	
40100	205 294	0.20	19	380	6	< 2	7	62	0.09	< 10	< 10	63	< 10	38	< 0.2	
40101	205 294	0.21	20	330	< 2	< 2	7	73	0.09	< 10	< 10	63	< 10	30	< 0.2	
40102	205 294	0.25	19	370	2	< 2	7	84	0.08	< 10	< 10	60	< 10	30	< 0.3	
40103	205 294	0.19	21	390	2	< 2	6	64	0.07	< 10	< 10	57	< 10	36	< 0.2	
40104	205 294	0.19	19	330	2	< 2	4	55	0.08	< 10	< 10	41	< 10	30	< 0.2	
40105	205 294	0.21	20	350	2	< 2	6	63	0.09	< 10	< 10	54	< 10	40	< 0.2	
40106	205 294	0.16	19	360	2	< 2	3	56	0.09	< 10	< 10	35	< 10	36	< 0.2	
40107	205 294	0.16	19	330	2	< 2	4	49	0.07	< 10	< 10	40	< 10	30	< 0.2	
40108	205 294	0.18	19	340	2	< 2	5	57	0.08	< 10	< 10	48	< 10	32	< 0.2	
40109	205 294	0.15	18	330	< 2	< 2	3	53	0.08	< 10	< 10	34	< 10	30	< 0.2	
40110	205 294	0.23	18	350	< 2	< 2	6	61	0.08	< 10	< 10	51	< 10	48	< 0.2	
40111	205 294	0.26	18	300	2	< 2	6	66	0.08	< 10	< 10	51	< 10	44	< 0.2	
40112	205 294	0.18	17	290	2	< 2	4	48	0.07	< 10	< 10	37	< 10	28	< 0.2	
40113	205 294	0.37	21	320	2	< 2	6	77	0.08	< 10	< 10	55	< 10	34	< 0.2	
40114	205 294	0.44	23	330	6	< 2	6	89	0.06	< 10	< 10	50	< 10	48	< 0.4	
40115	205 294	0.40	20	300	6	< 2	6	97	0.08	< 10	< 10	51	< 10	46	< 0.3	
40116	205 294	0.49	20	310	2	< 2	6	111	0.07	< 10	< 10	56	< 10	56	< 0.2	
40117	205 294	0.13	18	720	2	< 2	4	48	0.07	< 10	< 10	64	< 10	26	< 0.2	
40118	205 294	0.15	23	780	2	< 2	10	54	0.13	< 10	< 10	109	< 10	46	< 0.2	
40119	205 294	0.25	26	830	4	< 2	15	70	0.13	< 10	< 10	133	< 10	38	< 0.2	
40120	205 294	0.24	26	810	4	< 2	15	61	0.14	< 10	< 10	131	< 10	34	< 0.2	
40121	205 294	0.21	26	860	4	< 2	11	66	0.21	< 10	< 10	116	< 10	46	< 0.2	
40122	205 294	0.20	29	820	4	< 2	14	55	0.23	< 10	< 10	129	< 10	60	< 0.2	
40123	205 294	0.16	25	790	4	< 2	10	46	0.16	< 10	< 10	99	< 10	48	< 0.2	
40124	205 294	0.20	24	830	2	< 2	11	69	0.20	< 10	< 10	110	< 10	48	< 0.2	
40125	205 294	0.21	26	790	< 2	< 2	11	46	0.21	< 10	< 10	112	< 10	50	< 0.2	
40126	205 294	0.25	29	830	4	< 2	11	66	0.19	< 10	< 10	117	< 10	60	< 0.2	
40127	205 294	0.23	27	730	4	< 2	8	85	0.16	< 10	< 10	98	< 10	48	< 0.2	
40128	205 294	0.11	5	490	4	< 2	1	51	0.02	< 10	< 10	19	< 10	24	< 0.2	
40129	205 294	0.08	3	510	4	< 2	< 1	46	0.01	< 10	< 10	16	< 10	72	< 0.2	

2-3% py, po

BX TUFF

ANDES

+fn.py (1-2% py, po)

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Page Number 2-B
 Total Pages 4
 Certificate Date 04-JAN-95
 Invoice No. I-P433324
 P.O. Number :
 Account :

Project : 120
 Comments: ATTN: V.P.VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
ANDS 40130 40131 40132 40133 40134	205 294	0.09	4	510	14	< 2	1	102	< 0.01	< 10	< 10	20	< 10	76	0.2	
	205 294	0.08	4	570	20	< 2	< 1	56	< 0.01	< 10	< 10	18	< 10	72	0.4	
	205 294	0.08	5	560	8	< 2	1	64	0.02	< 10	< 10	19	< 10	30	0.2	
	205 294	0.10	6	560	8	2	1	53	0.02	< 10	< 10	22	< 10	28	0.2	
205 294	0.23	34	1100	4	< 2	13	96	0.17	< 10	< 10	149	< 10	58	< 0.2		
BX-Tuff 40135 40136 40137 40138 40139	205 294	0.28	32	1020	2	< 2	11	98	0.20	< 10	< 10	143	< 10	54	< 0.2	
	205 294	0.26	32	1010	2	< 2	13	105	0.22	< 10	< 10	141	< 10	62	< 0.2	
	205 294	0.30	29	1010	4	< 2	15	117	0.23	< 10	< 10	165	< 10	68	< 0.2	
	205 294	0.28	32	990	2	< 2	13	101	0.22	< 10	< 10	157	< 10	62	< 0.2	
205 294	0.30	30	980	4	4	17	112	0.23	< 10	< 10	173	< 10	68	< 0.2		
40140 40141 40142 40143 40144	205 294	0.19	30	1020	2	< 2	15	73	0.19	< 10	< 10	147	< 10	54	< 0.2	
	205 294	0.22	25	1130	4	< 2	15	82	0.16	< 10	< 10	172	< 10	48	< 0.2	
	205 294	0.27	25	1080	< 2	< 2	19	87	0.22	< 10	< 10	192	< 10	50	< 0.2	
	205 294	0.27	31	1050	4	< 2	17	80	0.21	< 10	< 10	164	< 10	48	< 0.2	
205 294	0.23	32	970	2	2	17	108	0.21	< 10	< 10	166	< 10	48	< 0.2		
40145 40146 40147 40148 40149	205 294	0.25	26	1010	6	2	18	103	0.19	< 10	< 10	176	< 10	46	< 0.2	
	205 294	0.21	22	1010	2	< 2	14	87	0.18	< 10	< 10	160	< 10	40	< 0.2	
	205 294	0.20	25	910	2	< 2	12	138	0.18	< 10	< 10	135	< 10	46	< 0.2	
	205 294	0.21	24	1020	4	< 2	15	92	0.20	< 10	< 10	155	< 10	52	< 0.2	
205 294	0.20	23	1000	2	< 2	16	107	0.20	< 10	< 10	171	< 10	58	< 0.2		
40150 40151 40152 40153 40154	205 294	0.24	21	1000	2	< 2	14	118	0.18	< 10	< 10	147	< 10	64	< 0.2	
	205 294	0.26	19	850	6	< 2	14	98	0.20	< 10	< 10	142	< 10	62	< 0.2	
	205 294	0.20	22	900	4	< 2	12	81	0.18	< 10	< 10	134	< 10	54	< 0.2	
	205 294	0.25	22	870	2	< 2	10	93	0.18	< 10	< 10	118	< 10	52	< 0.2	
205 294	0.25	31	870	4	< 2	16	90	0.22	< 10	< 10	154	< 10	96	< 0.2		
40155 40156 40157 40158 40159	205 294	0.23	29	860	4	< 2	13	71	0.18	< 10	< 10	127	< 10	80	< 0.2	
	205 294	0.24	27	890	2	< 2	9	74	0.15	< 10	< 10	105	< 10	58	< 0.2	
	205 294	0.24	26	870	2	2	10	78	0.17	< 10	< 10	112	< 10	56	< 0.2	
	205 294	0.25	23	920	4	< 2	13	83	0.18	< 10	< 10	144	< 10	50	< 0.2	
205 294	0.19	19	930	2	4	12	59	0.16	< 10	< 10	149	< 10	40	< 0.2		
1-2% pyro 40160 40161 40162 40163 40164	205 294	0.06	7	260	< 2	< 2	2	28	0.03	< 10	< 10	26	< 10	14	0.2	
	205 294	0.13	6	540	6	< 2	1	73	0.02	< 10	< 10	21	< 10	72	0.2	
	205 294	0.12	6	570	8	< 2	1	63	0.01	< 10	< 10	25	< 10	70	0.2	
	205 294	0.12	5	470	4	< 2	2	55	0.04	< 10	< 10	27	< 10	38	< 0.2	
205 294	0.20	9	560	4	< 2	9	54	0.13	< 10	< 10	74	< 10	28	< 0.2		
40165 40166 40167 40168 40169	205 294	0.20	13	530	2	< 2	8	59	0.10	< 10	< 10	68	< 10	30	< 0.2	
	205 294	0.19	8	510	2	< 2	8	95	0.10	< 10	< 10	65	< 10	38	< 0.2	
	205 294	0.22	9	510	2	< 2	9	72	0.12	< 10	< 10	70	< 10	38	< 0.2	
	205 294	0.17	10	590	2	< 2	9	80	0.13	< 10	< 10	70	< 10	32	< 0.2	
205 294	0.20	13	750	4	2	11	76	0.17	< 10	< 10	98	< 10	42	< 0.2		

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Page Number 2-A
 Total Pages 4
 Certificate Date 04-JAN-95
 Invoice No. I-9433324
 P.O. Number :
 Account :

Project: 120
 Comments: ATTN: V.P.VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
ANPS 40130	205 294	< 5	1.39	4	70	< 0.5	2	1.24	< 0.5	3	63	135	1.97	< 10	< 1	0.21	< 10	0.56	210	1
40131	205 294	< 5	1.39	6	90	< 0.5	< 2	1.79	< 0.5	3	65	140	1.91	< 10	< 1	0.37	< 10	0.50	220	1
40132	205 294	< 5	1.42	< 2	70	< 0.5	2	1.39	< 0.5	3	61	132	1.99	< 10	< 1	0.25	< 10	0.57	210	1
40133	205 294	25	1.52	12	60	< 0.5	6	0.90	< 0.5	7	73	240	2.85	< 10	< 1	0.26	< 10	0.56	165	2
40134	205 294	< 5	2.73	38	150	< 0.5	< 2	0.88	< 0.5	12	114	194	4.44	< 10	< 1	1.26	< 10	0.95	175	4
BX-TUFF 40135	205 294	< 5	3.68	78	260	< 0.5	2	1.03	< 0.5	14	94	70	4.31	< 10	< 1	1.50	< 10	0.94	320	2
40136	205 294	< 5	3.75	60	320	< 0.5	< 2	0.91	< 0.5	13	89	51	4.40	< 10	< 1	1.62	< 10	0.93	415	2
40137	205 294	25	4.11	68	310	< 0.5	< 2	1.09	< 0.5	15	97	24	4.39	< 10	< 1	1.71	< 10	1.02	460	2
40138	205 294	< 5	4.10	64	270	< 0.5	< 2	1.97	< 0.5	13	84	56	4.53	< 10	< 1	1.68	< 10	1.05	425	1
40139	205 294	10	4.11	66	270	< 0.5	< 2	1.11	< 0.5	12	103	38	4.73	< 10	< 1	1.73	< 10	1.14	435	5
40140	205 294	< 5	2.93	126	210	< 0.5	< 2	0.81	< 0.5	14	75	82	4.21	< 10	< 1	1.30	< 10	1.03	310	1
40141	205 294	< 5	3.15	78	250	< 0.5	< 2	2.30	< 0.5	11	64	198	4.12	< 10	< 1	1.11	< 10	1.07	320	< 1
40142	205 294	< 5	3.38	126	250	< 0.5	< 2	0.97	< 0.5	11	122	132	4.30	< 10	< 1	1.43	< 10	1.25	265	1
40143	205 294	< 5	3.17	180	120	< 0.5	< 2	0.92	< 0.5	13	111	170	4.83	< 10	< 1	1.23	< 10	1.21	250	1
40144	205 294	< 5	3.20	692	210	< 0.5	2	0.95	< 0.5	14	99	155	4.66	10	< 1	1.34	< 10	1.23	250	< 1
40145	205 294	10	3.39	158	210	< 0.5	< 2	0.93	< 0.5	11	110	163	4.18	< 10	< 1	1.22	< 10	1.24	235	1
40146	205 294	< 5	2.91	258	190	< 0.5	< 2	0.88	< 0.5	10	111	129	3.95	< 10	< 1	1.14	< 10	1.18	220	1
40147	205 294	< 5	3.31	116	140	< 0.5	4	1.39	< 0.5	12	87	160	4.47	< 10	< 1	1.33	< 10	1.18	230	1
40148	205 294	< 5	3.04	78	260	< 0.5	< 2	0.75	< 0.5	10	100	56	3.98	< 10	< 1	1.38	< 10	1.08	290	< 1
40149	205 294	< 5	3.52	60	350	< 0.5	< 2	0.95	< 0.5	11	101	21	3.86	< 10	< 1	1.47	< 10	1.09	395	2
40150	205 294	< 5	3.76	62	440	< 0.5	< 2	1.42	< 0.5	10	89	8	3.86	< 10	< 1	1.48	< 10	1.03	440	1
40151	205 294	< 5	3.57	32	480	< 0.5	< 2	0.81	< 0.5	10	93	10	4.04	< 10	< 1	1.64	< 10	1.03	455	2
40152	205 294	< 5	3.41	36	380	< 0.5	< 2	0.85	< 0.5	11	88	45	3.89	< 10	< 1	1.39	< 10	1.06	400	1
40153	205 294	< 5	3.09	44	300	< 0.5	< 2	0.77	< 0.5	10	99	33	3.58	< 10	< 1	1.38	< 10	0.94	335	3
40154	205 294	< 5	4.62	14	430	< 0.5	< 2	0.87	< 0.5	19	64	97	5.97	10	< 1	2.23	< 10	1.48	695	2
40155	205 294	< 5	3.70	16	360	< 0.5	< 2	0.81	< 0.5	13	83	36	4.66	< 10	< 1	1.69	< 10	1.07	585	3
40156	205 294	< 5	3.13	38	230	< 0.5	< 2	1.13	< 0.5	12	81	43	3.87	< 10	< 1	1.35	< 10	0.89	430	2
40157	205 294	< 5	3.11	52	240	< 0.5	2	0.88	< 0.5	10	86	38	3.69	< 10	< 1	1.34	< 10	0.86	395	3
40158	205 294	< 5	2.95	66	200	< 0.5	< 2	0.82	< 0.5	10	100	49	3.45	< 10	< 1	1.24	< 10	0.95	285	2
40159	205 294	< 5	2.29	20	140	< 0.5	< 2	0.71	< 0.5	10	138	162	3.93	< 10	< 1	0.82	< 10	1.02	215	3
1-2% PYPD 40160	205 294	< 5	1.19	2	190	< 0.5	2	0.21	< 0.5	2	63	33	1.03	< 10	< 1	0.51	< 10	0.31	75	1
40161	205 294	< 5	1.28	< 2	100	< 0.5	4	0.66	< 0.5	9	88	195	3.00	< 10	< 1	0.34	< 10	0.56	165	< 1
40162	205 294	20	1.12	10	80	< 0.5	2	0.68	< 0.5	6	71	105	1.93	< 10	< 1	0.15	< 10	0.58	185	< 1
40163	205 294	10	1.23	10	80	< 0.5	2	0.47	< 0.5	6	87	109	2.02	< 10	< 1	0.33	< 10	0.54	130	< 1
40164	205 294	< 5	2.01	32	80	< 0.5	< 2	0.65	< 0.5	6	101	102	2.98	< 10	< 1	0.65	< 10	0.78	155	3
40165	205 294	30	1.92	2080	110	< 0.5	2	0.65	< 0.5	34	115	147	2.95	< 10	< 1	0.56	< 10	0.76	130	2
40166	205 294	< 5	1.86	14	90	< 0.5	< 2	0.65	< 0.5	5	92	107	2.53	< 10	< 1	0.55	< 10	0.71	130	3
40167	205 294	20	1.90	36	110	< 0.5	< 2	0.65	< 0.5	6	135	117	2.72	< 10	< 1	0.61	< 10	0.78	140	2
40168	205 294	10	2.01	92	120	< 0.5	< 2	0.57	< 0.5	8	93	150	3.39	< 10	< 1	0.73	< 10	0.85	160	2
40169	205 294	< 5	2.50	48	130	< 0.5	< 2	0.63	< 0.5	9	96	82	3.93	< 10	< 1	1.10	< 10	0.85	280	2

CERTIFICATION: _____



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Page Number 3-B
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 Account :

Project : 120
 Comments: ATTN: V.P. VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	ppm Aqua R
3-5% PYPO ANOS 5-7% PYPO DAS-94-40	40170	205 294	0.11	19	1000	8 < 2	14	49	0.15	< 10 < 10	160	< 10	46	< 0.2		
	40171	205 294	0.09	40	710	4 < 2	7	73	0.08	< 10 < 10	96	< 10	28	< 0.2		
	40172-as?	205 294	0.09	29	810	2 < 2	4	61	0.04	< 10 < 10	72	< 10	20	< 0.2		
	40173	205 294	0.13	16	1000	4 < 2	9	59	0.13	< 10 < 10	123	< 10	30	0.2		
	40174	205 294	0.14	15	910	8 < 2	9	60	0.12	< 10 < 10	107	< 10	34	0.2		
5-7% PYPO	40175	205 294	0.22	22	1100	2 < 2	8	107	0.09	< 10 < 10	114	< 10	34	0.3		
	40176	205 294	0.26	18	1100	4 < 2	14	116	0.11	< 10 < 10	152	< 10	32	0.2		
	40177	205 294	0.18	26	1270	4 < 2	11	89	0.09	< 10 < 10	131	< 10	32	0.2		
	40178	205 294	0.13	42	710	4 < 2	3	70	0.07	< 10 < 10	56	< 10	20	< 0.2		
	40179	205 294	0.17	33	970	2 < 2	11	98	0.10	< 10 < 10	109	10	26	< 0.2		
Rock Change	40180	205 294	0.13	21	1240	4 < 2	15	140	0.11	< 10 < 10	142	< 10	34	0.2		
	40181	205 294	0.16	23	1320	4 < 2	23	103	0.14	< 10 < 10	192	< 10	40	0.2		
	40182	205 294	0.04	17	1290	16 < 2	5	23	0.17	< 10 < 10	102	< 10	90	0.5		
	40183	205 294	0.07	18	1260	24 < 2	5	74	0.16	< 10 < 10	97	< 10	152	0.7		
	40184	205 294	0.13	29	400	4 < 2	1	88	0.05	< 10 < 10	28	< 10	76	< 0.2		
DAS-94-41	41019	205 294	< 0.01	15	1030	16	4	1	11	0.09	< 10 < 10	35	< 10	398	0.8	
	41022	205 294	< 0.01	12	450	10	< 2	1	7	0.05	< 10 < 10	13	< 10	5630	0.8	
	41023	205 294	< 0.01	3	120	14	< 2	< 1	3	< 0.01	< 10 < 10	1	< 10	2770	0.8	
	41024	205 294	< 0.01	2	70	8	2	< 1	3	< 0.01	< 10 < 10	< 1	< 10	1390	0.6	
	41025	205 294	< 0.01	4	70	18	4	< 1	2	< 0.01	< 10 < 10	< 1	< 10	2300	0.8	
DAS-94-41	41026	205 294	< 0.01	1	60	12	< 2	< 1	3	< 0.01	< 10 < 10	< 1	< 10	1095	0.7	
	41027	205 294	< 0.01	1	50	12	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	670	0.8	
	41028	205 294	< 0.01	4	130	20	4	< 1	3	0.01	< 10 < 10	3	< 10	590	1.0	
	41029	205 294	< 0.01	2	80	8	< 2	< 1	3	< 0.01	< 10 < 10	< 1	< 10	776	0.4	
	41030	205 294	< 0.01	3	120	6	4	< 1	3	< 0.01	< 10 < 10	< 1	< 10	2060	0.8	
DAS-94-41	41031	205 294	< 0.01	5	100	10	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	3860	0.6	
	41032	205 294	< 0.01	7	80	12	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	2920	1.0	
	41033	205 294	< 0.01	7	80	8	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	3850	0.8	
	41034	205 294	< 0.01	3	40	8	2	< 1	1	< 0.01	< 10 < 10	< 1	< 10	3410	0.7	
	41035	205 294	< 0.01	3	60	20	6	< 1	1	< 0.01	< 10 < 10	< 1	< 10	4000	1.1	
DAS-94-41	41036	205 294	< 0.01	1	20	50	12	< 1	2	< 0.01	< 10 < 10	< 1	< 10	638	2.7	
	41037	205 294	< 0.01	2	30	16	6	< 1	2	< 0.01	< 10 < 10	< 1	< 10	1205	1.6	
	41038	205 294	< 0.01	2	70	10	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	3340	0.8	
	41039	205 294	< 0.01	3	70	12	< 2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	4430	0.5	
	41040	205 294	< 0.01	2	80	12	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	1615	0.5	
DAS-94-41	41041	205 294	< 0.01	1	80	8	2	< 1	3	< 0.01	< 10 < 10	< 1	< 10	830	1.0	
	41042	205 294	< 0.01	1	190	10	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	300	0.8	
	41043	205 294	< 0.01	1	80	12	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	108	1.0	
	41044	205 294	< 0.01	1	130	6	2	< 1	3	< 0.01	< 10 < 10	< 1	< 10	158	0.9	
	41045	205 294	< 0.01	2	120	8	2	< 1	2	< 0.01	< 10 < 10	< 1	< 10	284	0.4	

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.
 VANCOUVER, BC
 V6C 3E8

Page Number 3-A
 Total Pages 4
 Certificate Date 04-JAN-95
 Invoice No. I-9433324
 P.O. Number :
 Account :

Project : 120
 Comments: ATTN: V.P. VAN DAMME CC: WARREN BATES

CERTIFICATE OF ANALYSIS A9433324

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
3-5% py, po AUDS 5-7% py, po 40170	205 294	< 5	2.11	184	90	< 0.5	< 2	0.54	< 0.5	11	86	78	3.78	< 10	< 1	0.97	< 10	0.79	275	23
	205 294	< 5	1.42	170	60	< 0.5	< 2	0.53	< 0.5	17	69	190	3.68	< 10	< 1	0.43	< 10	0.54	135	54
	205 294	15	1.33	260	50	< 0.5	2	0.60	< 0.5	14	70	176	2.70	< 10	< 1	0.19	< 10	0.54	95	2
	205 294	< 5	2.12	180	70	< 0.5	2	0.61	< 0.5	12	71	337	5.98	< 10	< 1	0.80	< 10	0.90	145	1
40171	205 294	< 5	1.93	36	80	< 0.5	2	0.62	< 0.5	11	81	325	5.39	< 10	< 1	0.72	< 10	0.81	140	< 1
40175	205 294	40	2.31	46	60	< 0.5	12	0.91	< 0.5	15	57	446	6.26	< 10	< 1	0.56	< 10	0.76	140	1
	205 294	< 5	2.80	304	90	< 0.5	2	1.08	< 0.5	16	82	392	5.13	< 10	< 1	0.57	< 10	0.92	140	< 1
	205 294	25	2.13	422	80	< 0.5	6	0.88	< 0.5	18	77	315	4.76	< 10	< 1	0.48	< 10	0.86	135	11
	205 294	< 5	1.34	398	110	< 0.5	< 2	0.48	< 0.5	26	51	128	3.21	< 10	< 1	0.46	< 10	0.37	95	8
	205 294	175	2.00	1160	170	< 0.5	28	0.69	< 0.5	20	73	161	2.97	< 10	< 1	0.64	< 10	0.79	120	8
5-7% py, po 40180	205 294	< 5	2.13	254	70	< 0.5	< 2	0.84	< 0.5	17	100	330	4.78	< 10	< 1	0.73	< 10	0.99	150	1
	205 294	< 5	2.47	56	30	< 0.5	2	0.90	< 0.5	18	88	424	5.68	< 10	< 1	0.90	< 10	1.08	180	1
	205 294	45	1.78	2	70	< 0.5	6	0.72	< 0.5	8	61	245	4.71	< 10	< 1	0.23	< 10	1.45	415	1
	205 294	20	1.89	12	100	< 0.5	6	0.86	0.5	10	55	204	4.47	< 10	< 1	0.32	< 10	1.41	390	3
	205 294	< 5	1.29	90	160	< 0.5	< 2	0.63	< 0.5	13	28	18	1.01	< 10	< 1	0.37	< 10	0.29	105	15
401019	205 294	< 5	1.56	6	30	< 0.5	< 2	0.25	0.5	4	36	9	3.04	< 10	< 1	0.91	10	0.17	2100	< 1
	205 294	35	1.16	42	30	0.5	< 2	0.10	25.0	6	42	25	2.59	< 10	< 1	0.70	10	0.10	645	1
	205 294	30	0.53	18	10	0.5	< 2	0.04	9.5	2	47	30	2.03	< 10	< 1	0.33	< 10	0.06	1035	1
	205 294	15	0.52	28	10	0.5	< 2	0.03	3.5	1	47	38	2.03	< 10	< 1	0.33	< 10	0.06	910	1
	205 294	60	0.46	28	10	0.5	2	0.01	5.5	2	49	60	1.43	< 10	< 1	0.29	< 10	0.02	350	2
401026	205 294	70	0.46	338	10	0.5	2	0.03	4.0	2	57	78	2.29	< 10	< 1	0.29	10	0.06	825	2
	205 294	70	0.55	48	10	0.5	2	0.02	2.5	1	50	61	1.84	< 10	< 1	0.34	< 10	0.05	620	3
	205 294	60	0.68	48	10	0.5	< 2	0.02	6.0	3	62	56	1.52	< 10	< 1	0.40	10	0.04	355	3
	205 294	40	0.53	44	10	0.5	< 2	0.02	3.0	2	45	36	1.93	< 10	< 1	0.34	10	0.04	600	1
	205 294	50	0.51	46	10	0.5	< 2	0.03	8.0	1	50	33	2.02	< 10	< 1	0.31	10	0.04	700	2
401031	205 294	55	0.72	44	10	< 0.5	< 2	0.01	12.5	3	35	55	1.75	< 10	< 1	0.40	10	0.04	255	3
	205 294	25	0.41	46	10	< 0.5	< 2	< 0.01	7.5	2	41	74	1.41	< 10	< 1	0.26	10	< 0.01	40	2
	205 294	60	0.41	40	10	0.5	2	< 0.01	14.0	< 1	35	76	1.64	< 10	< 1	0.25	10	< 0.01	125	4
	205 294	40	0.35	464	10	< 0.5	< 2	< 0.01	10.0	1	45	61	1.35	< 10	< 1	0.24	< 10	< 0.01	95	1
	205 294	105	0.34	1190	10	< 0.5	2	< 0.01	16.0	1	46	56	1.36	< 10	< 1	0.22	< 10	< 0.01	75	2
401036	205 294	110	0.27	280	30	< 0.5	< 2	< 0.01	2.0	2	43	61	1.69	< 10	< 1	0.21	< 10	< 0.01	45	2
	205 294	140	0.30	302	20	< 0.5	< 2	< 0.01	5.5	1	49	42	0.96	< 10	< 1	0.23	< 10	< 0.01	40	1
	205 294	50	0.37	28	20	< 0.5	< 2	< 0.01	22.0	2	56	35	0.87	< 10	< 1	0.24	< 10	< 0.01	50	1
	205 294	60	0.44	22	20	< 0.5	< 2	0.01	13.5	1	46	34	0.61	< 10	< 1	0.27	10	0.01	130	2
	205 294	35	0.40	26	20	< 0.5	< 2	0.01	12.5	1	50	37	0.64	< 10	< 1	0.26	10	< 0.01	90	1
401041	205 294	45	0.46	74	40	< 0.5	< 2	< 0.01	13.0	1	47	89	0.91	< 10	< 1	0.27	10	< 0.01	65	1
	205 294	90	0.40	166	130	< 0.5	< 2	< 0.01	1.0	1	50	50	1.29	< 10	< 1	0.21	10	< 0.01	1020	1
	205 294	20	0.38	156	40	< 0.5	< 2	< 0.01	< 0.5	< 1	54	31	0.47	< 10	< 1	0.24	10	< 0.01	70	1
	205 294	10	0.45	86	50	< 0.5	< 2	0.01	< 0.5	1	60	45	1.08	< 10	< 1	0.26	10	0.01	380	5
	205 294	< 5	0.41	44	30	< 0.5	< 2	0.01	0.5	1	41	66	0.86	< 10	< 1	0.26	10	0.01	180	9

3-5% py, po
 AUDS
 5-7% py, po
 5-7% py, po
 040-94441

01/05/95 2:37PM CHEMEX LABS VAX-FAX PAGE 06

CERTIFICATION: _____


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

ZONE:

Page

1-17

Grid No.

Angle & Grid Direction

330-53

Elevation

~310.2 m

 Property **DAVIDSON**

 Project No. **141**

 Depth **185.01**

 Date Began **DEC 12, 1994**

 Hole No. **DAV-94-40**

 Co ord. **21+84 W**

Horizontal Length

 Date Completed **DEC 15, 1994**

 Claim No. **DAV**
18+81 S

 Core Size **NQ II**

 Drilled By **J.T. THOMAS**

Grid No.

Angle & Grid Direction

330-53

Elevation

~310.2 m

 Logged By **V.P. VAN DAMME**

INTERVAL FEET / METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET / METRES	MINOR GEOLOGICAL CODE
0-10.67(25')		CASING / OVERBURDEN		
10.67-15.11	BX	PHREATIC BRECCIA - EXTRUSIVE TUFF - LIGHT GR. DK GR FRAGS IN MED GRAY MTX - FRAGMENTS 0.5-15 MM - MTX FINE GRAINED - RHY 60% AND 30% (REG 10%); FRAG COMP - MOD PERVASIVE SILTIFICATION - PREFERRED DIMENSIONAL ORIENTATION 42° CA - NO APPARENT SX - PROBABLE FAULT 12.19-14.48; BROKEN OXIDIZED CORE - FRACTURES 48° - 42° 12° 65° - LOWER CONTACT 40° IRREGULAR WAVY SHARP		
15.11-16.15	RHY	RHYOLITE ASH LAPILLI TUFF - BEDDING PARALLEL PARTING CLEARANCE 40-50° - GRAY FINE ASH WITH INTERVALS OF FINE PALE GRAY LAPILLI - OCCASIONAL MX SEGMENTS - NO APP SX - FRACTURES 60°; 40°; 18° OXIDIZED - MOD SILT		
16.15-18.14	BX	PHREATIC BRECCIA - EXTRUSIVE TUFF - UPPER CONTACT 4.5° - MOD SILT - IS IN 10.67-15.11 - FRAGS OF RHY AND REG-SILT - PREFERRED DIMENSIONAL ORIENTATION 40-50° - NO SIGNIFICANT MINERALIZATION; 3MM R, USIN 70CA AT 17.40m - 60°; 50°; 14° FRACTURES	400171 WR/TMS	
18.14-18.49	RHY	RHY ASH TUFF - MINOR FINE LAPILLI TUFF - DARK PARTING CLEARANCE BEDDING PARALLEL 48° - UPPER LOWER CONTACTS 54°	ACID TESTS 340' 58° HGAS 49.5 TRUE	
18.49-18.67	BX	PHREATIC BX AS IN 16.15-18.14 LOWER CONTACT 48° CA SHARP IRREGULAR	600' 59° HGAS 50.5° TRUE	

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ZONE:

Page **2-17**

Property **DAVIDSON** Project No. **141** Depth Date Began
 Hole No. **DAV-94-40** Co ord. Horizontal Length Date Completed
 Claim No. **DAVE** Core Size Drilled By
 Grid No. Angle & Grid Direction Elevation Logged By

INTERVAL FEET / METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET / METRES	MINOR GEOLOGICAL CODE
18.67-26.10	RMY	RHYOLITE ASH - LAPILLI - WATERLAIN TUFF - LIGHT GR - MEDIUM GRAY F. ASH - LAPILLI SIZED IN MIX SUPPORT	400201	
		18.67-22.50 MASSIVE FAINTLY BEDDED FINE ASH TUFF BEDDING 40° CA - UPPER CONTACT DENDRITIC AND BEDDING PARALLEL MOTTLING	WR / TMS	
		22.50-24.28 M-C. GRAINED ASH MINOR LAPILLI COMPONENT BEDDING PARALLEL PARTING CLINIFORME		
		24.28-24.72 WATERLAIN FINE ASH TUFF UPPER LOWER CONTACTS SOFT SED PENETRATION PARALLEL FAULTING 10° CA BANDS 1 CM SPACING - LIGHT GR F. GRAINED BANDS DK GR BY MEDIUM GRAINED BANDS		
		24.72-26.10 M-C. GRAINED ASH TUFF MINOR LAPILLI COMPONENT BEDDING PARALLEL PARTING CLINIFORME 52° CA		
		- MOD SIL NO APPARENT MINERALIZATION - FRACTURES OXIDIZED 50°, 30°, 10° - LOWER CONTACT IN 'BROKEN' CORE (DRILL INDUCED)		
26.10-28.10	BX	PHYRATIC BX - EXT TUFF - MED GRAY - FRAGS 1 MM - 7 CM AVG LAP SIZE 0.5-1.5 - LARGEST FRAGS ANDGITE SURROUNDED - 70% FELSIC FRAGS 30% ANDGITE MINOR AEGYLLITE - OCCASIONAL FSP PPy AND; MOST AND MASSIVE - MOD SILICEOUS - FRACTURES AT 30M 32°, 40°, 12° * RHYOLITE SUBINTERVALS 27.90-28.25, 30.29-30.42, 30.73-31.02, 31.11-31.24, 32.17-32.51, 33.28-33.40 - CONFORMABLE CONTACTS - MASSIVE - BEDDED TUFFS 50° CA 32.17-32.51 SUBINTERVAL TOPPED BY CHL ALT HYDROCLASTITE	400401	
		* NO APP SX UNTIL 35.37 SEVERAL SMALL BLARS OCC PA > R, DISS AND PEARL REPLACEMENTS EVERY 1-2M FROM 35/37 ON TO 64.20 TOTAL 1/2% MAX SX	WR / TMS	


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**
ZONE:

 Page **5-17**

 Property **DAVIDSON** Project No. **141** Depth Date Began
 Hole No. **DMV-94-40** Co ord. Horizontal Length Date Completed
 Claim No. **JAVE** Core Size Drilled By
 Grid No. Angle & Grid Direction Elevation Logged By

INTERVAL FEET / METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET / METRES	MINOR GEOLOGICAL CODE
163.72-163.84		RHYOLITE WELDED ASH FLOW TUFF - AS IN 159.66-161.00 - UPPER LOWER CONTACTS BEDDING PARALLEL 50°	401671 WR	
163.84-170.99		PHIBOTIC BRECCIA - EXTRUSIVE TUFF - AS IN PREVIOUS INTERVALS * SUBINTERVALS RHYOLITE FINE LAPILLI TUFFS FINE DK ASH MIX 168.55-168.75 CARBONATES AT 40° 169.65-170.00 ARBITRARY LOWER CONTACT -> GRADATIONAL UPPER CONTACT IN BROKEN CORE (DRILL INDICATED) 170.08 CORE (DRILL ROUNDED CORE) LAST 60CM 3-5% P ₂ , P ₀	401761 WR	
170.99-182.14		ANDESITE FLOW TOP BRECCIA 170.99-171.12 INTRAFLOW SEDIMENT SILT MINOR GRIT BEDDED AT 40° 2CM DIFFUSE BOUNDED P ₂ , P ₀ BAND BEDDING PARALLEL 171.83-172.04 INTRAFLOW SED AS ABOVE BEDDING 40° 178.20-179.62 MASSIVE DK-GY SILT-F. SANDSTONE MASSIVE WITH 0.5-1.0 CM SUSPENDED FLOW FRAGS - FLOW TOP BY CLAST SUPPORTED MASSIVE AND PORPHYRITIC - 1-6 CM ROUNDED FRAGS - MOD PERVIOUS SILICIFICATION - MINOR FRACTURES 40°, 25° AT MINOR CL - 171.48 POSSIBLE ASP ₂ IN AGGREGATES WITH P ₂ , P ₀ IN EARLY 30° VEIN (3CM) 172.96-174.66 * 5-7% P ₂ , P ₀ DISS IN MIX (65% SX) ONE P ₂ VEIN AT 30° 180.04-181.31 * 5-7% P ₂ , P ₀ DISS IN MIX (15% SX)		



GRANGES EXPLORATION LTD.

DIAMOND DRILL LOG

12-17

PROJECT NO. 141

HOLE NO. DAV-94-40

DEPTH. 185.09 CORE SIZE NO. II

FROM	TO	INTERVAL	MEASURED	RECOVERY	>100MM	RQD
10.67(35)	11.58	91	91	100	57	62.6
	12.19	61	61	100	50	82.0
	12.65	46	25	54.3	∅	∅
	13.72	107	31	29.0	∅	∅
	14.48	76	45	59.2	∅	∅
	15.24	76	66	86.8	44	57.9
	16.15	91	69	75.8	44	48.4
	18.29	214	212	99.1	209	97.7
	19.20	91	91	100	88	96.7
	21.64	244	206	84.4	124	50.8
	22.86	122	122	100	79	64.8
	24.38	152	121	79.6	102	67.1
	25.91	153	127	83.0	94	61.4
	28.35	244	244	100	224	91.8
	30.18	183	156	85.2	142	77.6
	31.09	91	91	100	81	89.0
	32.00	91	77	84.6	41	45.1
	33.83	183	183	100	156	85.2
	35.66	183	163	89.1	125	68.3
	38.10	244	209	85.7	176	72.1
	40.84	274	271	98.9	230	83.9
	42.67	183	148	80.9	130	71.0
	44.50	183	164	89.6	114	62.3
	45.42	92	78	84.8	47	51.1
	47.24	182	181	99.5	170	93.4
	49.53	229	211	92.1	208	90.8
	51.51	198	198	100	191	96.5
	53.64	213	200	93.9	150	70.4
	55.17	153	153	100	116	75.8
	57.91	274	255	93.1	232	84.7
	59.28	117	117	100	81	69.2
	60.35	107	102	95.3	26	24.3
	62.18	183	183	100	137	74.9
	64.00	182	160	87.9	120	65.9
	64.77	77	77	100	77	100
	65.84	107	58	54.2	26	24.3
	66.75	91	88	96.7	36	39.6
	67.36	61	73	100	42	68.9



GRANGES EXPLORATION LTD.

DIAMOND DRILL LOG

13-17

PROPERTY WHITSON

PROJECT NO. 141

HOLE NO. DAV-94-40

DEPTH. 185.01 CORE SIZE NO. II

FROM	TO	INTERVAL	MEASURED	RECOVERY	>100mm	RQD
67.36	70.10	264	170	64.4	109	41.3
	72.85	275	242	88.0	103	37.5
	74.22	137	104	75.9	40	29.2
	74.98	76	62	86.1	11	14.5
	76.20	222	120	54.1	69	31.1
	77.11	91	91	100	16	17.6
	79.25	214	153	71.5	55	25.7
	81.38	213	213	100	193	90.6
	82.30	92	92	100	61	66.3
	85.34	304	304	100	257	84.5
	87.78	244	244	100	222	91.0
	90.53	275	275	100	244	88.7
	92.96	243	212	87.2	204	84.0
	95.10	314	252	80.3	233	74.2
	96.62	152	152	100	147	96.7
	99.06	244	197	80.7	116	47.5
	102.11	305	292	95.7	224	73.4
	103.63	152	144	94.7	128	84.2
	104.39	136	82	60.3	61	44.9
	106.68	229	228	99.6	228	99.6
	109.73	305	304	99.7	268	87.9
	112.78	305	287	94.1	275	90.2
	115.82	305	300	98.4	271	88.9
	118.87	305	282	92.5	248	81.3
	121.92	305	299	98.0	271	88.9
	124.35	243	240	98.8	220	90.5
	125.73	138	138	100	129	93.5
	128.02	229	227	99.1	218	95.2
	131.06	304	304	100	297	97.7
	134.11	305	300	98.4	300	98.4
	137.16	305	305	100	291	95.4
	140.21	305	302	99.0	302	99.0
	142.65	244	244	100	237	97.1
	145.69	304	293	96.4	293	96.4
	148.74	305	292	95.7	292	95.7
	151.79	305	300	98.4	300	98.4
	154.84	305	300	98.4	288	94.4
	158.19	* 325	318	97.8	318	97.8



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

15-17

PROPERTY DAVIDSON
PROJECT NO. 141
HOLE NO. DAV-94-40
DATE:

LENGTH 185.01
CORE SIZE NQII

FROM	TO	ROCK	MSU	FROM	TO	ROCK	MSU	FROM	TO	ROCK	MSU
10.67(35')	11.58		0.08	40.84	42.67		0.67	74.22	74.98		0.75
	12.19		0.16		44.50		0.64		76.20		1.46
	12.65		0.15		45.42		0.34		77.11		0.28
	13.72		0.07		47.24		0.48		79.25		0.73
	14.48		0.17		49.53		0.72		81.38		1.60
	15.24		0.16		51.51		1.06		82.30		2.15
	16.15		0.13		53.64		0.75		85.34		3.49
	18.29		0.24		55.17		0.63		87.78		1.10
	19.20		0.10		57.91		0.49		90.53		2.21
	21.64		0.20		59.28		0.35		92.96		1.15
	22.86		0.09		60.35		0.13		95.10		2.76
	24.38		0.26		62.18		0.62		96.62		3.61
	25.91		0.16		64.00		0.61		99.06		1.40
	28.35		0.56		64.77		0.99		102.11		0.92
	30.18		0.66		65.84		1.23		103.63		0.79
	32.00		0.52		66.75		1.70		104.39		0.52
	33.83		0.22		67.36		0.90		106.68		0.69
	35.66		0.69		70.10		0.49		109.73		0.72
	38.10		0.52		72.85		0.40		112.78		0.47
	40.84		0.84		74.22		0.42		115.82		0.41



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

17-17

PROPERTY DAVIDSON
PROJECT NO 141
HOLE NO DAV-94-40
DATE

DEPTH 185.01
CORE SIZE NQ II

BOX #	FROM	TO	BOX #	FROM	TO	BOX #	FROM	TO
1	10.67	16.15	21	118.43	124.09	41		
2		21.14	22		129.78	42		
3		26.25	23		135.62	43		
4		31.11	24		141.32	44		
5		36.46	25		146.75	45		
6		42.00	26		152.61	46		
7		47.70	27		158.59	47		
8		53.29	28		164.19	48		
9		59.00	29		169.90	49		
10		64.33	30		175.54	50		
11		69.50	31		181.14	51		
12		74.80	32		185.01	52		
13		80.14	33		- EOH -	53		
14		85.34	34			54		
15		90.66	35			55		
16		96.14	36			56		
17		101.44	37			57		
18		107.00	38			58		
19		112.78	39			59		
20		118.43	40			60		
								DDH