



42C03SW0082 22 MISHIBISHU LAKE

010

DIAMOND DRILLING

Area: Mishibushi Lake

Report No: 22

WORK PERFORMED FOR: Granges Exploration Ltd.

RECORDED HOLDER: SAME AS ABOVE []

: OTHER [x] MacMillan Energy Corp. Ltd.

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
SSM 601742	M-57	124.05m	Oct/86	(1)
SSM 601701	M-58	60.05m	Oct/86	(1)
SSM 601664	M-59	63.09m	Oct/86	(1)
SSM 601609	M-60	63.09m	Oct/86	(1)
	M-61	60.04m	Oct/86	(1)
SSM 601662	M-62	63.09m	Oct/86	(1)
	M-63	136.24m	Oct/86	(1)
SSM 601681	M-64	60.04m	Oct/86	(1)
	M-65	63.09m	Oct/86	(1)
SSM 601657	M-66	60.06m	Oct/86	(1)
SSM 601659	M-67	61.87m	Oct/86	(1)
SSM 601844	M-68	56.99m	Oct/86	(1)
SSM 601843	M-69	22.25m	Oct/86	(1)
SSM 644616	M-74	57.91m	Oct/86	(1)
SSM 644604	M-77	66.14m	Oct/86	(1)

15

1018M

NOTES: (1) #168-86 (filed in June/87)



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

① ②

Property MISHI OPTION Project No. 227 Depth 124.05m (407') Date Began Oct. 1/86
 Hole No. M-57 Co ord. 1300E Horizontal Length _____ Date Completed Oct. 4/86
 Claim No. SSM 601742 420N Core Size AQ Drilled By Morissette
 Grid No. M-2 Angle & Direction -50 Grid S Elevation _____ Logged By G. Harder ① ②

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 3.05	CASING								
3.05 - 60.43	DIABASE fairly fresh, med. gr., green, magnetic.	28.35	29.41	1.06	6754	.03	.5		
	5.18 - some calc. fractures	35.66	36.42	0.76	55	.02	.5		
	10.97 - 11.43 - Broken core	60.43	60.96	0.53	56	.02	.5		
	11.28 - 13.41 - fine grain	60.96	61.57	0.61	57	.02	.5		
	15.85 - 29.41 - fine grain may be drilling along contact	61.57	62.18	0.61	58	.02	.5		
	appears in places like basalt	62.8	63.09	0.91	59	.02	.5		
	24.99 - 29.57 - 80% broken core	63.09	63.70	0.61	60	.02	.5		
	28.35 - 29.41 - 50% gtz-calcite, bx, 1-2% py	63.70	64.16	0.46	61	.02	.5		
	29.41 - 56.39 - med. grain somewhat altered	64.16	65.07	0.91	62	.02	.5		
	35.66 - 36.42 - 35% gtz-calcite bx, mar py	65.07	66.14	1.07	63	.02	.5		
	56.39 - 60.43 finer grained, sharp lower contact	66.14	67.06	0.92	64	.02	.5		
	at 45°	67.06	67.67	0.61	65	.02	.5		
60.43 - 81.38	SHEAR ZONE (Graphitic Quartz)	67.67	68.58	0.91	66	.02	.5		
	60.43 - 61.26 black opaque gtz, loc. brn-white, bx, some	68.58	69.49	0.91	67	.02	.5		
	gf - calcite, 2% py	69.49	70.41	0.92	68	.02	.5		
	61.26 - 61.87 - mainly gtz, white to black, mar gf,	70.41	71.32	0.91	69	.02	.5		
	py - 3%, Fr. gr. tourmaline?	71.32	72.24	0.91	70	.02	.5		
	61.87 - 63.09 - 90% smoky-wh. gtz, fract., mar py	72.24	73.15	0.91	71	.02	.5		
	63.09 - 64.16 - mainly dk black gtz, low angle banding,	73.15	74.07	0.92	72	.02	.5		
	fold., 10% wh. gtz, 2% py, 90% broken core, some gf	74.07	74.98	0.91	73	.02	.5		
	64.16 - 65.07 - 20% white-grey gtz, fract., rest black	74.98	75.90	0.92	74	.02	.5		
	graphitic gtz, 1% py	75.90	76.81	0.91	75	.02	.5		
	65.07 - 66.45 - 15% gtz bands	76.81	77.72	0.91	76	.02	.5		
	66.45 - 72.54 - mainly black gtz rich, 5-10% gf, some wh. gtz, 2% py	77.72	78.64	0.92	77	.02	.5		
	72.54 - 78.33 - 5-15% gf, gtz-calcite fract., very contorted,	78.64	79.55	0.91	78	.02	.5		
	78.33 - 80.16 - 15-20% gf, 3% py, broken core (3% py)	79.55	80.16	0.61	79	.02	.5		
	80.16 - 81.38 - silicified sed., some gf-gtz lenses	80.16	80.77	0.61	80	.02	.5		
81.38 - 124.05	METASEDIMENTS - Greywacke	80.77	81.38	0.61	81	.02	.5		
	fairly coniferous, dark grey to dk green, granular, a	81.38	82.29	0.91	82	.02	.5		
	few gtz lenses, bedding 70° TCA	82.29	83.20	0.91	83	.02	.5		
	93.57 - 95.40 15% gtz-calcite veinlets	93.57	94.48	0.91	84	.02	.5		
	121.01 - 121.31 - 50% gtz calcite	121.01	121.31	0.30	6785	.02	.5		
124.05	END OF HOLE								
		SLUDGE							
		RECEIVED	3.13	5.18	3.05	6423	.02		
			5.18	8.23	3.05	24	.02		
			8.23	11.28	3.05	25	.02		
			11.28	14.33	3.05	26	.02		
			14.33	17.37	3.04	6427	.02		

G. Harder Oct 2/86

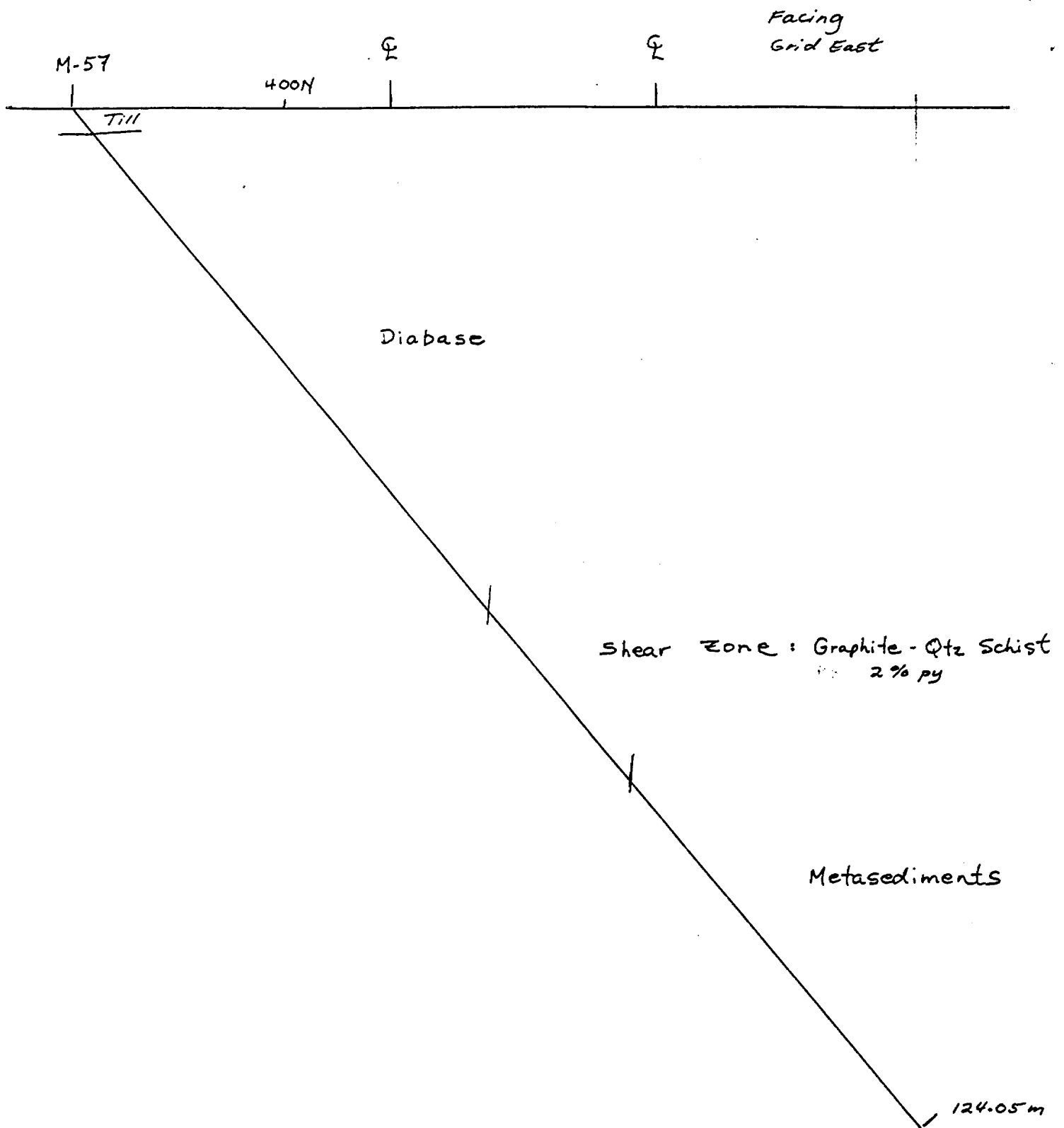


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

① 01 ②

Property Project No. Depth Date Began
 Hole No. M-57 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By Page 2 of 2
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		17.37	20.42	3.05	6428	.02			
		20.42	23.47	3.05	29	.02			
		23.47	26.52	3.05	30	.02			
		26.52	29.57	3.05	31	.02			
		29.57	32.61	3.04	32	.02			
		32.61	35.66	3.05	33	.02			
		35.66	38.71	3.05	34	.02			
		38.71	41.76	3.05	35	.02			
		41.76	44.81	3.05	36	.02			
		44.81	47.85	3.04	37	.02			
		47.85	50.90	3.05	38	.02			
		50.90	53.95	3.05	39	.02			
		53.95	57.00	3.05	40	.02			
		57.00	60.05	3.05	41	.02			
		60.05	63.09	3.04	42	.02			
		63.09	66.14	3.05	43	.02			
		66.14	69.19	3.05	44	.02			
		69.19	72.24	3.05	45	.02			
		72.24	75.29	3.05	46	.02			
		75.29	78.33	3.04	47	.02			
		78.33	81.38	3.05	48	.02			
		81.38	84.43	3.05	49	.02			
		84.43	87.48	3.05	6450	.02			
		87.48	90.53	3.05	6355	.02			
		90.53	93.57	3.04	56	.02			
		93.57	96.62	3.05	57	.02			
		96.62	99.67	3.05	58	.02			
		99.67	102.72	3.05	59	.02			
		102.72	105.77	3.05	60	.02			
		105.77	108.81	3.04	61	.02			
		108.81	111.86	3.05	62	.02			
		111.86	114.91	3.05	63	.02			
		114.91	117.96	3.05	64	.02			
		117.96	121.01	3.05	65	.02			
		121.01	124.05	3.04	63 66	.02			

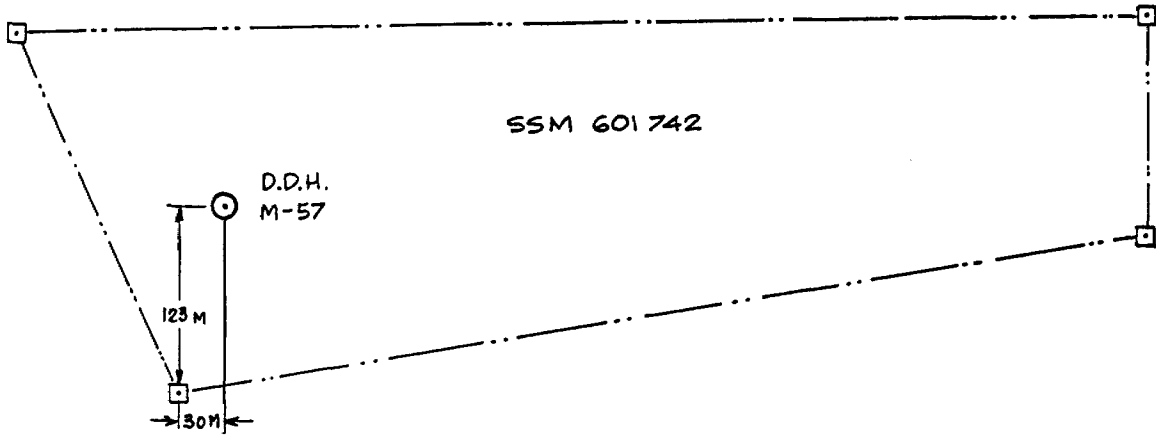
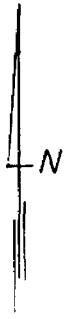


Hole M-57
 MISHI OPTION
 1300 E, 420N
 GRID M-2
 Claim No. - 55M 601742

Scale 1:500

Logged by: G. Harder, Oct. 1986

GRANGES EXPLORATION LTD.



GRANGES EXPLORATION LTD.
MISHI PROJECT
DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000
HOLE NO : M-57

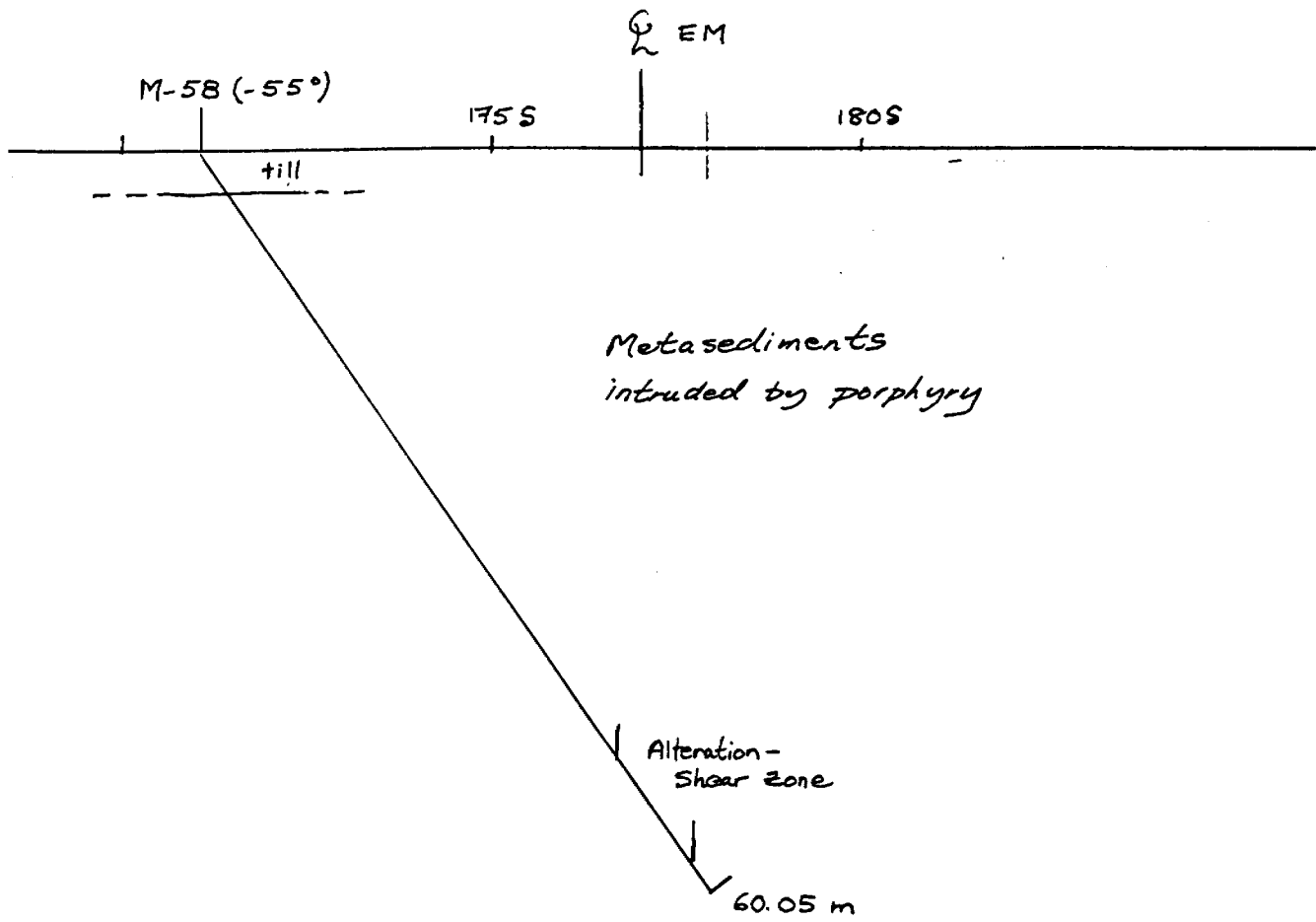
GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property MISHI OPTON Project No. 227 Depth 60.05 (197') Date Began Oct 6/86
 Hole No. M-58 Co ord. 400 E Horizontal Length Date Completed Oct 7/86
 Claim No. SSM 601701 155S Core Size AQ Drilled By Morissette
 Grid No. M-2 Angle & Direction -55° Grid S Elevation Logged By G. Harder

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag. g/t	Cu.	Zn.
0-3.05	CASING								
3.05-5.09	METASEDIMENTS - dark grey, fine to medium grain, 50° bedding, greywacke	11.13	11.73	0.60	6786	.02	.5		
5.09-6.12	PORPHYRY - pale grey with subhedral med. grain white feldspar	11.73	12.53	0.80	6787	.02	.5		
6.12-7.16	METASEDIMENTS - sim to prev.	17.37	17.75	0.38	6788	.02	.5		
7.16-8.75	PORPHYRY sim to prev.	17.75	18.36	0.61	6789	.02	.5		
8.75-11.13	METASEDIMENTS (MS)	22.86	23.16	0.30	6790	.02	.5		
11.13-12.53	PORPHYRY	23.62	24.26	0.64	6791	.02	.5		
12.53-17.75	METASEDIMENTS	31.32	31.93	0.61	6792	.02	.5		
17.75-18.29	PORPHYRY - somewhat altered, sericite, quartz rich	34.75	34.98	0.23	6793	.02	.5		
18.29-23.62	METASEDIMENTS - 10cm porph. at 22.94	45.11	45.57	0.46	6794	.02	.5		
23.62-24.26	PORPHYRY	45.57	46.48	0.91	6795	.02	.5		
24.26-31.17	METASEDIMENTS	46.48	47.40	0.92	6796	.02	.5		
31.17-33.38	PORPHYRY some quartz shearing at upper contact	47.40	48.31	0.91	6797	.02	.5		
33.38-45.95	METASEDIMENTS	48.31	49.23	0.92	6798	.02	.5		
45.95-47.55	PORPHYRY - alt. fractured, mnr py - qtz at upper contact, 55° TCA	49.23	50.14	0.91	6799	.02	.5		
47.55-48.16	METASEDIMENTS - silicified, mnr py	50.14	50.90	0.76	6800	.02	.5		
48.16-49.38	PORPHYRY (broken core)	50.90	51.82	0.91	6801	.02	.5		
49.38-51.21	METASEDIMENTS - silicified (broken core)	51.82	52.73	0.91	6802	.02	.5		
51.21-52.12	PORPHYRY (broken core)	52.73	53.65	0.92	6803	.02	.5		
52.12-53.34	METASEDIMENTS - altered (broken core)	53.65	54.56	0.91	6804	.02	.5		
53.34-54.86	PORPHYRY - altered, mnr py (broken core)	54.56	55.47	0.91	6805	.02	.5		
54.86-59.13	METASEDIMENTS - altered (broken core)	55.47	56.39	0.92	6806	.02	.5		
59.13-60.05	PORPHYRY (mainly broken core)	56.39	57.30	0.91	6807	.02	.5		
60.05	Broken core 54.86-58.83 END OF HOLE	57.30	59.13	1.83	6808	.02	.5		
		59.13	60.05	0.92	6809	.02	.5		
		SLUDGE							
		3.05	5.18	2.13	6367	.02			
		5.18	8.23	3.05	68	.02			
		8.23	11.28	3.05	69	.02			
		11.28	14.33	3.05	70				
		14.33	17.37	3.04	6371				
		(no more recovery)							

Glenn Harder Oct 9/86

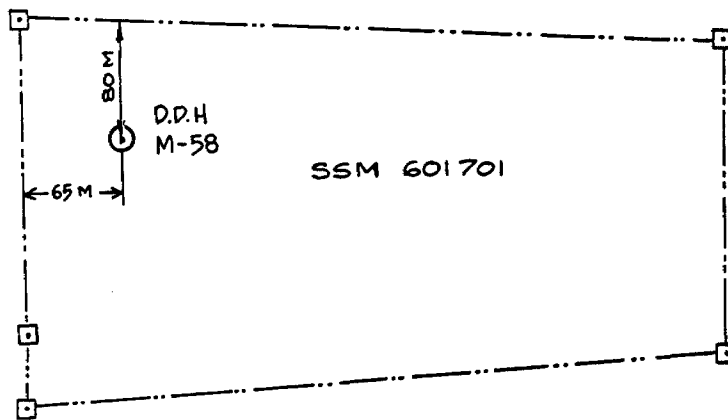
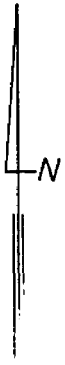
FACING GRID EAST



Hole M-58
MISHI OPTION
400 E, 155 S
GRID M-2
CLAIM NO. 601701

Scale 1:500

Logged by G. Harder, Oct. 1986
GRANGES EXPLORATION LTD.



GRANGES EXPLORATION LTD.
MISHI PROJECT
DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000
HOLE NO : M-58


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

① of ③

 Property MISHI OPTION Project No. 227 Depth 63.04m (207') Date Began Oct 8/86
 Hole No. M-59 Co ord. 500E Horizontal Length _____ Date Completed Oct 9/86
 Claim No. SSM 601.664 250S Core Size AQ Drilled By Morissette Ltd.
 Grid No. M-4 Angle & Direction -45° South Elevation _____ Logged By G. Harde

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au g/t	Ag g/t	Cu.	Zn.
0 - 3.05	CASING								
3.05 - 16.00	METASEDIMENT - "Greywacke" dark green, gen fine grain, bed 600 TCA, some shaly clasts (?) fold at 9.6, 9.9, 11.6, a few irreg calcite fill fractures								
16.00 - 22.78	GRAPHITIC SCHIST	16.31	17.37	1.06	6810	.02	.5		
	16.00 - 17.37 - graphite 10-15% with calcite well banded, contorted, rec fold 16.92, 20% qtz, 3% py	17.37	17.83	0.46	6811	.02	.5		
	17.37 - 17.83 - < 5% gf, 800 TCA, rest chlorite?	17.83	18.29	0.46	12	.02	.5		
	17.83 - 18.29 - 10% gf, much calcite, 10% qtz, 3% py	18.29	19.81	1.52	13	.02	.5		
	18.29 - 21.49 - < 5% gf, dark black, fold at 19.20, 19.81, 20.73, mar py	19.81	21.49	1.68	14	.02	.5		
	21.49 - 21.87 - < 5% gf, 10% qtz, 5% py, very folded, sericitic	21.49	21.87	0.38	15	.02	.5		
	21.87 - 22.78 - well banded, 50% quartz-sericite bands, rest black graphitic quartz bands	21.87	22.78	0.91	16	.02	.5		
		22.78	23.85	1.07	17	.02	.5		
		23.85	24.99	1.14	18	.02	.5		
		24.99	26.52	1.53	19	.02	.5		
		26.52	28.04	1.52	20	.02	.5		
		28.04	29.26	1.22	21	.02	.5		
		29.26	29.99	0.73	22	.02	.5		
22.78 - 23.85	QUARTZ SERICITE SCHIST quartz > 90%, white to smokey, v. fractured, folded 3% py in strings	29.99	30.78	0.79	23	.06	.5		
		30.78	31.09	0.31	24	.03	.5		
		31.09	31.70	0.61	25	.15	.5		
		31.70	32.31	0.61	26	.05	.5		
23.85 - 29.26	GRAPHITIC SCHIST graphite 20-30%, rest qtz calcite, banded, much folding, 2-3% py	32.31	33.07	0.76	27	.02	.5		
		33.07	33.74	0.67	28	.02	.5		
		33.74	34.29	0.55	29	.16	.5		
29.26 - 29.99	PORPHYRY - pale green-grey, figr. altered								
29.99 - 30.78	GRAPHITIC SCHIST - gf - 10%								
30.78 - 33.07	QUARTZ-SERICITE SCHIST pale yellow and blue								
	30.78 - 31.09 - 20% blue qtz, 4% figr. py, 1 cm band of fuchsite 30.85								
	31.09 - 31.70 - 10% blue qtz lenses, 4% figr. py								
	31.70 - 32.46 - 40% blue qtz, 4% py								
	32.46 - 33.07 - < 10% blue qtz, mar py, fuchsite.								
33.07 - 33.76	PORPHYRY - v. altered								

 MORE SAMPLES
 NEXT PAGE

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG
 ② of ③

Property Project No. Depth Date Began
 Hole No. *M-59* Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

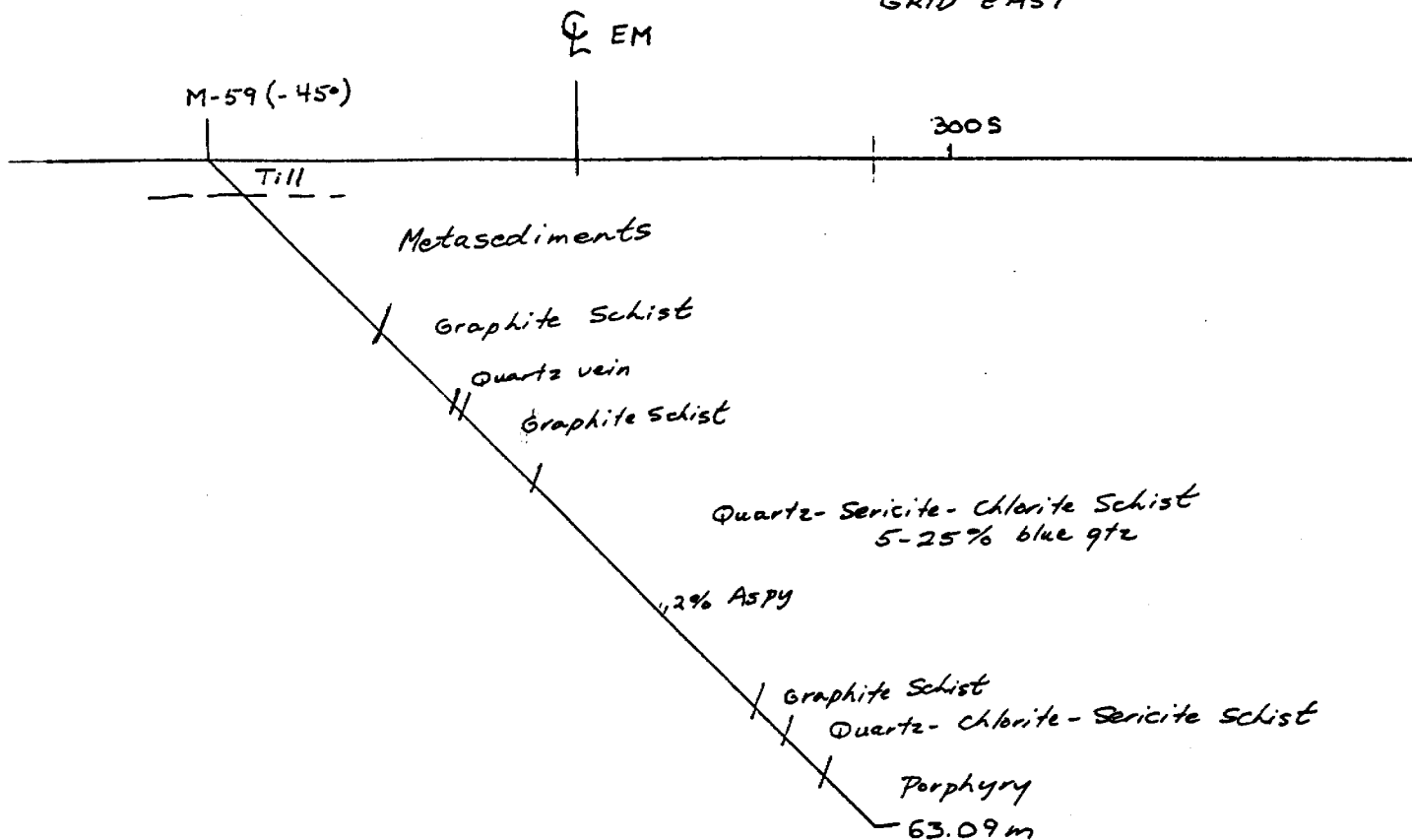
INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.g/g	Ag.g/g	Cu.	Zn.
33.76 - 34.29	QUARTZ - SERICITE SCHIST 25% smokey-blue quartz, 2-3% py	34.29	35.43	1.14	6830	.32	.5		
		35.43	36.27	0.84	31	.09	.5		
		36.27	36.88	0.61	32	.15	.5		
34.29 - 35.43	PORPHYRY altered.	36.88	37.55	0.67	33	.02	.5		
		37.55	38.01	0.46	34	.08	.5		
35.43 - 39.32	QUARTZ - SERICITE SCHIST	38.01	38.94	0.93	35	.02	.5		
	35.51 - 37.55 - 15% blue qtz, 3-4% py (fig.)	38.94	39.32	0.38	36	.09	.5		
	37.55 - 38.94 - more barren, 5% blue qtz, 2% py, 70°C TCA	39.32	40.39	1.07	37	.02	.5		
	38.94 - 39.32 - 60% blue qtz, 2% py	40.39	41.15	0.76	38	.04	.5		
		41.15	41.61	0.46	39	.09	.5		
		41.61	42.37	0.76	40	.02	.5		
39.32 - 40.31	PORPHYRY altered	42.37	43.21	0.84	41	.11	.5		
		43.21	43.74	0.53	42	.24	.5		
40.31 - 41.61	QUARTZ - SERICITE SCHIST 10% blue qtz, 3% brassy py, folded	43.74	44.35	0.61	43	.29	.5		
		44.35	45.57	1.22	44	.04	.5		
		45.57	46.02	0.45	45	.09	.5		
41.61 - 43.22	PORPHYRY - alt., qtz rich, 10% smokey qtz in low angle veinlets	46.02	46.33	0.31	46	.17	.5		
		46.33	46.94	0.61	47	.20	.5		
		46.94	47.55	0.61	48	.15	.5		
43.22 - 44.35	QUARTZ - SERICITE - CHLORITE SCHIST somewhat folded, 2% py, mnr Aspy, fol. 55°C TCA	47.55	48.16	0.61	49	.43	.5		
	43.22 - 43.74 - 10% blue qtz	48.16	48.77	0.61	6850	.04	.5		
		48.77	49.99	1.22	1901	.02	.5		
		49.99	50.98	0.99	2	.04	.5		
44.35 - 45.02	PORPHYRY - alt. qtz rich, sim. to prev.	50.98	51.51	0.53	3	.02	.5		
		51.51	52.43	0.92	4	.02	.5		
45.02 - 51.51	QUARTZ - SERICITE - CHLORITE SCHIST	52.43	53.34	0.91	5	.02	1.0		
	45.02 - 45.57 - fairly well foliated, 5% blue qtz, 2% py, mnr Aspy	53.34	54.25	0.91	6	.02	.5		
	45.57 - 46.02 - mn. graphite, 1% Aspy, 10% white qtz, bx	54.25	54.71	0.46	7	.02	.5		
	46.02 - 46.33 - pale brown, cherty breccia, 2% Aspy	54.71	55.32	0.61	8	.02	.5		
	46.33 - 47.55 - 10% blue qtz, 2% py, mnr Aspy	55.32	56.08	0.76	9	.03	.5		
	47.55 - 48.16 - very folded, bx, brn yellow clasts, L 10% blue qtz, 2% Aspy, 2% py	56.08	57.00	0.92	10	.02	.5		
	48.16 - 50.52 - L 10% blue qtz, 1% py	57.00	57.91	0.91	11	.02	1.0		
	50.52 - 50.98 - 15% smokey qtz, 3% py, mnr Aspy, V. folded	57.91	58.40	0.49	12	.02	.5		
	50.98 - 51.51 - 30% smokey qtz, 4% py, V. folded	58.40	59.62	1.22	13	.02	.5		
		59.62	61.14	1.52	14	.02	.5		
		61.14	61.87	0.73	15	.02	.5		
		61.87	63.09	1.22	16	.02	.5		

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG
 ③ of ③

Property Project No. Depth Date Began
 Hole No. *M-59* Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.g/t	Ag.	Cu.	Zn.
<i>51.51-54.71</i>	<i>GRAPHITIC SCHIST</i>								
	<i>51.51-52.12 - 10-15% gf, 3% py, quite</i>								
	<i>concreted</i>								
	<i>52.12-54.71 - 5-10% gf fair even schistosity</i>								
	<i>60% TCA, some g/z lenses</i>								
<i>54.71-58.40</i>	<i>QUARTZ-CHLORITE-SERICITE</i>								
	<i>generally uniform</i>								
	<i>54.71-55.32 - 70% smokey-blue quartz,</i>								
	<i>seric., folded 1% py</i>								
	<i>55.32-58.40 < 5% blue g/z, mat py</i>								
<i>58.40-63.09</i>	<i>PORPHYRY fairly alt. sericitized</i>								
<i>63.09</i>	<i>END OF HOLE</i>								
	<i>Glenn Hender Oct 12/86</i>								

FACING
GRID EAST

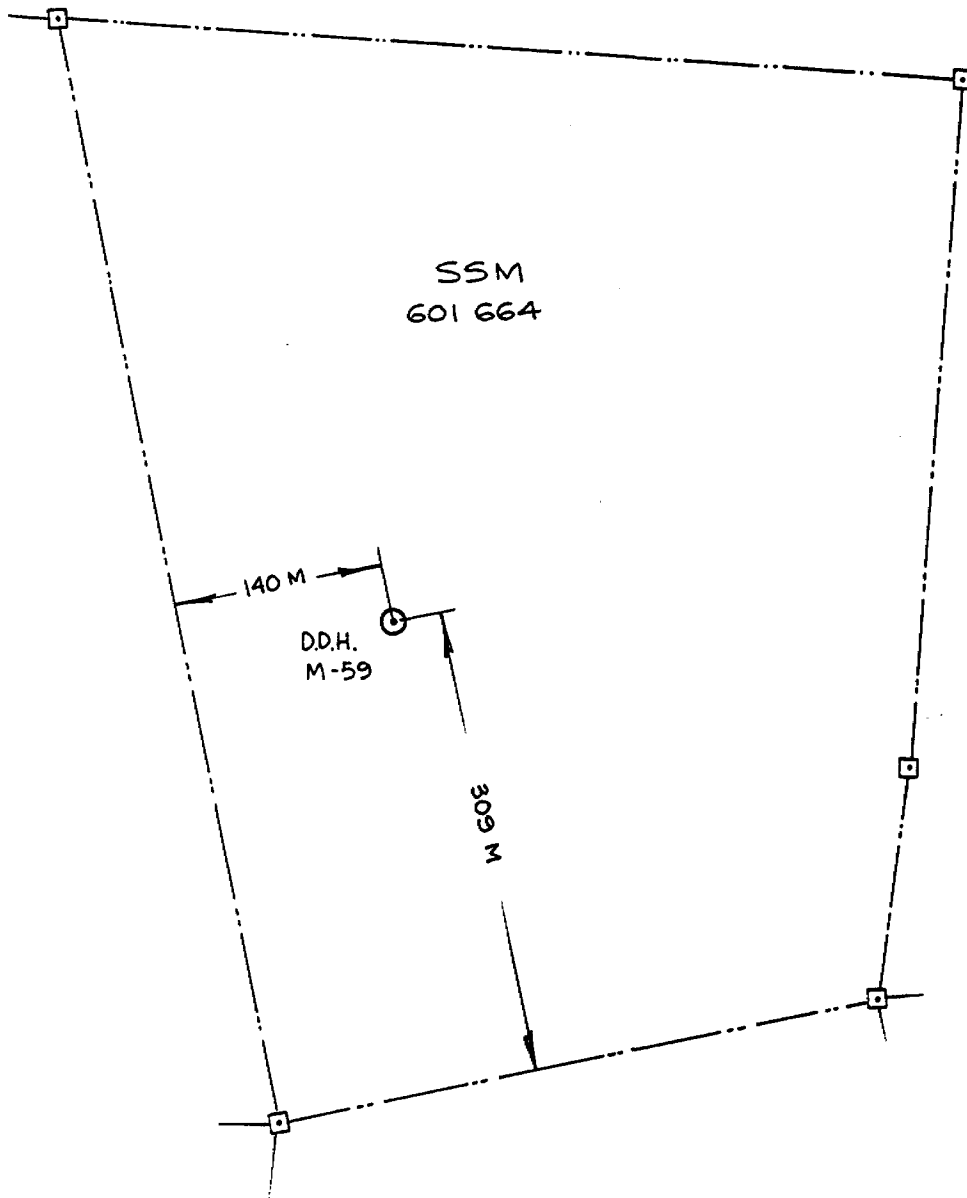
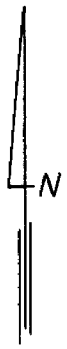


Hole M-59
MISHI OPTION
500E, 250S
GRID M-4
CLAIM NO 601664

Scale 1:500

Logged by: G. Harder, Oct. 86

GRANGES EXPLORATION LTD.



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILLHOLE LOCATION PLAN
SCALE 1:5000

HOLE NO: M-59


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

① of ②

 Property MISHI OPTION Project No. 227 Depth 63.09m (207') Date Began Oct 9, 1986
 Hole No. M-60 Co ord. 600E Horizontal Length _____ Date Completed Oct 10, 1986
 Claim No. 35M 601609 605S Core Size A.O Drilled By Morissette
 Grid No. M-4 Angle & Direction 50° Gr S Elevation _____ Logged By G. Hard

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. <u>g/t</u>	Ag. <u>g/t</u>	Cu.	Zn.
0 - 3.66	CASING								
3.66 - 8.99	METASEDIMENTS "greywacke" dark grey, f-med. gr., bed 55° TCA								
8.99 - 9.83	PORPHYRY beige, subhedral med gr felds.	8.99	9.83	0.84	1917	.02	.5		
9.83 - 24.99	METASEDIMENTS sim to prev. narrow porph. 14.48-14.71, 14.78-14.94	24.99	25.83	0.84	1918	.02	.5		
24.99 - 25.83	PORPHYRY	32.16	32.83	0.67	19	.02	.5		
		32.83	33.53	0.70	20	.02	.5		
25.83 - 32.22	METASEDIMENTS	33.53	34.44	0.91	21	.02	.5		
		34.44	35.28	0.84	22	.02	.5		
32.22 - 32.84	PORPHYRY	35.28	35.97	0.69	23	.02	.5		
		35.97	36.88	0.91	24	.02	.5		
	32.22 - 32.37 Qtz rich	36.88	38.01	1.13	25	.02	.5		
		32.69 - 32.84 Qtz rich	38.01	38.71	0.70	26	.02	.5	
32.84 - 34.66	METASEDIMENTS schistose, chloritic	38.71	39.62	0.91	27	.03	.5		
		39.62	40.54	0.92	28	.02	.5		
34.66 - 38.01	PORPHYRY somewhat altered, chloritic band 35.13-35.28	40.54	41.45	0.91	29	.02	.5		
		41.45	42.60	1.15	30	.02	.5		
		42.60	42.98	0.38	31	.02	.5		
		42.98	44.29	0.31	32	.02	.5		
38.01 - 41.61	METASEDIMENTS v. schistose, chloritic, 5-10% gt, some calcite.	44.29	44.59	0.30	33	.02	.5		
		44.59	45.26	0.67	34	.02	.5		
41.61 - 42.60	PORPHYRY sheared, med. gr., grey	45.26	45.72	0.46	35	.02	.5		
		54.07	54.94	0.77	36	.02	.5		
42.60 - 43.13	PORPHYRY / CHLORITIC SCHIST 5% tourmaline, 10% gtz.	57.15	57.30	0.15	37	.02	.5		
		60.96	61.57	0.61	38	.02	.5		
43.13 - 44.9	PORPHYRY f.gr. pale brown to 44.29 shear, med. gr to 44.59	61.57	62.48	0.91	1939	.02	.5		
44.59 - 45.26	GRAPHITE SCHIST 25% graphite, 20% calcite, 2% py 10% gtz.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

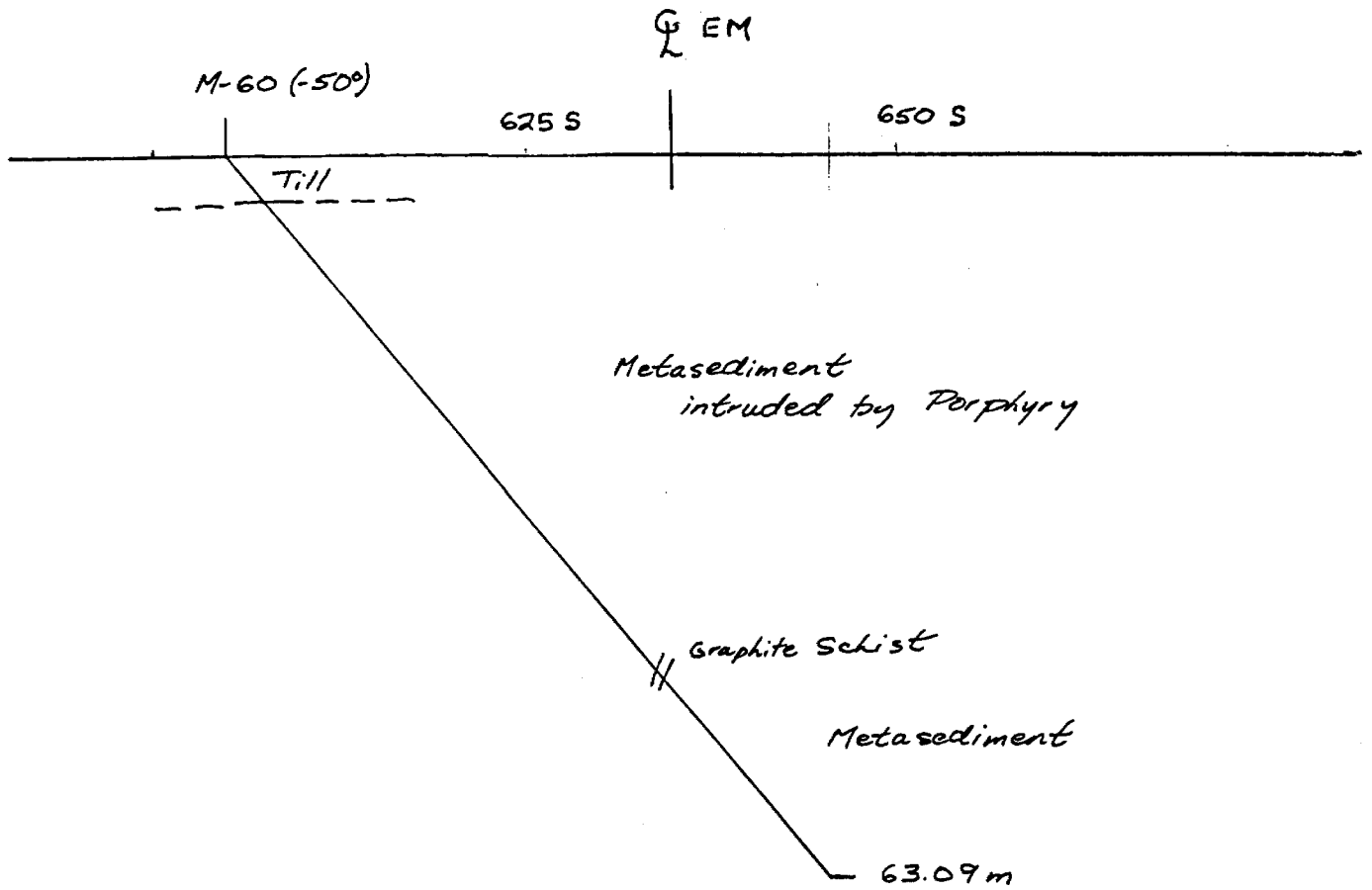
②

Property Project No. Depth Date Began
 Hole No. M-60 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
45.26-63.09	METASEDIMENT fine-med. gr. green chloritized "greywacke"								
					SLUDGE				
45.26 - 45.72	Contact zone 15% qtz-calcite.	0	5.18	5.18	6384	.02			
54.18 - 54.94	qtz flooding (15%) 5% calcite, mar py, po	5.18	8.23	3.05	85	.02			
		8.23	11.28	3.05	86	.02			
57.15 - 57.36	25% blue qtz with calcite, 1% po	11.28	14.33	3.05	87	.02			
		14.33	17.37	3.04	88	.02			
60.96 - 62.48	qtz-calcite vein (10%) epidote, x fract., 2% po string	17.37	20.42	3.05	89	.02			
		20.42	23.47	3.05	90	.02			
		23.47	26.52	3.05	91	.02			
		26.52	29.57	3.05	92	.02			
63.09	END OF HOLE	29.57	32.61	3.04	93	.02			
		32.61	35.66	3.05	94	.02			
		35.66	38.71	3.05	95	.02			
		38.71	41.76	3.05	96	.02			
		41.76	44.81	3.05	97	.02			
		44.81	47.85	3.04	98	.17			
		47.85	50.90	3.05	6399	.02			
		50.90	53.95	3.05	6400	.02			
		53.95	57.00	3.05	6851	.02			
		57.00	60.05	3.05	52	.02			
		60.05	63.09	3.04	6853	.02			

Continued Oct 1986

FACING GRID EAST

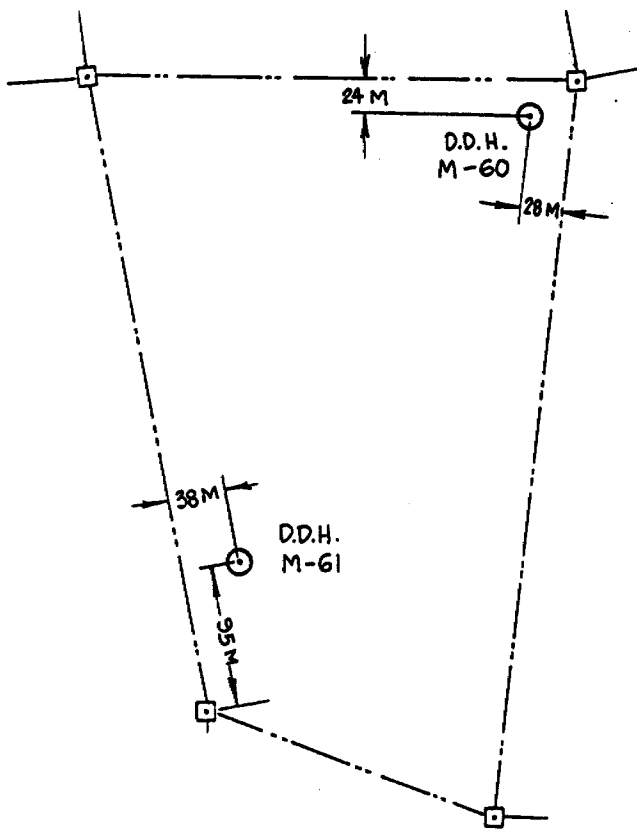
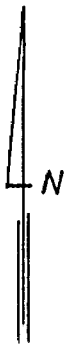


HOLE M-60
MISHI OPTION
600 E, 605 S
GRID M-4
CLAIM No SSM601609

Scale 1:500

Logged by G. Harder, Oct 1986

GRANGES EXPLORATION LTD.



GRANGES EXPLORATION LTD.
MISHI PROJECT
DIAMOND DRILLHOLE LOCATION PLAN
SCALE 1:5000
HOLE NO: M-60 & M-61

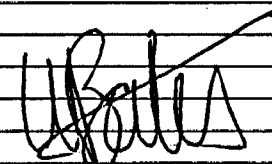

**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Mishi Option Project No. 221 Depth 60.07m (191') Date Began Oct. 11/86
 Hole No. M-61 Co ord. L600E Horizontal Length 42m Date Completed Oct. 12/86
 Claim No. SSM 601609 957S Core Size Aq Drilled By Morissette
 Grid No. M-4 Angle & Direction -45° Grids Elevation _____ Logged By W. Bates

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Ag/t	Ag/t	Cu.	Zn.
		0	20.26	20.26	WASTE				
0-3.93	<u>Casing</u>	20.26	20.57	.31	3801	.02	.5		
		20.57	21.19	.61	3802	.02	.5		
		21.19	21.79	.61	3803	.02	.5		
		21.79	22.25	.46	3804	.02	.5		
3.93-20.57	<u>Mafic Mudstones, Wackes</u> - Largely fine grained; weakly schistose - Lt. to dark olive green, banded on 3-4 cm scale - Chloritic - Scattered 1-2 mm wide concordant zone of epidote alteration - Occasional (< 5% of unit), 1-2 mm lt green to grey clasts, 40% - Sediments derived from Andesite + Basalts	22.25	23.61	1.42	WASTE				
		23.61	23.93	.31	3805	.02	1.0		
		23.93	24.58	.60	3806	.02	.5		
		24.58	25.19	.61	3807	.02	.5		
		25.19	25.92	.73	3808	.02	.5		
		25.92	26.51	.59	3809	.02	.5		
		26.51	27.12	.61	3806	.02	.5		
		27.12	27.74	.62	3810	.02	.5		
		27.74	28.34	.60	3811	.02	.5		
		28.34	28.96	.62	3812	.02	.5		
		20.57-21.79	<u>Feldspar Porphyry</u> - white to grey - 40-60% 1-3mm subhedral feldspars, white in colour - lt. grey siliceous groundmass	28.96	29.56	.60	3813	.02	1.0
29.56	30.02			.46	3814	.02	.5		
30.02	30.65			.63	3815	.02	1.5		
30.65	31.08			.43	3816	.02	.5		
31.08	31.69			.61	3817	.02	.5		
31.69	32.31			.62	3818	.02	.5		
32.31	33.22			.91	3819	.02	.5		
21.79-23.97	<u>Mafic Sediments</u> - as before	33.22	34.13	.91	3820	.02	.5		
		34.13	35.05	.92	3821	.02	.5		
		35.05	35.96	.91	3822	.02	.5		
		35.96	36.88	.92	3823	.02	1.0		
23.97-25.92	<u>Sheared Mafic Sediments (V.L.F. Conductor)</u> - well developed schistosity - 20-40% f.g. brown biotite development - open S+Z folds - 5-15% pyrrhotite stringers, 2-5% pyrite * 23.97-24.40 15% pyrrhotite, 5% pyrite	36.88	37.79	.91	3824	.02	1.0		
		37.79	38.70	.91	3825	.02	.5		
		38.70	39.62	.92	3826	.02	.5		
		39.62	40.53	.91	3827	.02	.5		
		40.53	41.45	.92	3828	.02	.5		
		41.45	42.36	.91	3829	.02	1.0		
25.92-30.02	<u>Mafic Sediments</u> - as before; except 5-10% biotite development	42.36	43.28	.92	3830	.02	.5		
		43.28	44.19	.91	3831	.02	.5		
		44.19	45.11	.92	3832	.02	.5		
30.02-30.66	<u>Feldspar Porphyry</u> - as above, except groundmass has pink tinge	45.11	46.02	.91	3833	.02	.5		
		46.02	46.94	.92	3834	.02	.5		
		46.94	47.85	.91	3835	.02	.5		
		47.85	48.76	.91	3836	.02	.5		
		48.76	49.68	.92	3837	.02	.5		
30.48-30.66	5% pyrite blebs,								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Project No. Depth Date Began
 Hole No. M-61 (Cont'd) Co. ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
30.66 - 33.22	Mafic Sediments - as before	44.68	50.59	.91	3838	.02	1.0		
		50.59	51.51	.92	3839	.02	.5		
		51.51	52.42	.91	3840	.02	.5		
		52.42	53.34	.92	3841	.02	.5		
		53.34	54.25	.91	3842	.02	.5		
33.22 - 56.69	Quartz-Feldspar Porphyry 2-5% grey, round 1-2mm qtz eyes 5-10% white subhedral 2-3mm feldspars 5-10% f.g dark mafic mineral, epidotized rims rare - trace pyrite Ground mass is red orange 33.22-55.16 " " white 55.16-56.69 massive, non schistose	54.25	55.16	.91	3843	.02	1.5		
		55.16	56.08	.92	3844	.02	.5		
		56.08	56.99	.91	3845	.02	.5		
		56.99	60.04	3.05	WASTE				
56.69 - 58.52	Intermediate Fragmental Rock - dark grey fine grained matrix - 10-20% angular dark green clasts, partially epidotized, 3/10mm								
58.52 - 60.04	Mafic Sediments - as before								
E.O.H.									
	Core Angles								
	w/Schistosity	w/Contacts							
	5.48m - 63°	21.79 -> 56°							
	12.90 - 51°	30.66 -> 51°							
	21.94 - 55°	33.22 -> 58°							
	31.39 - 50°	56.69 -> 48°							
	58.82 - 58°								
	 Warren Bates								



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

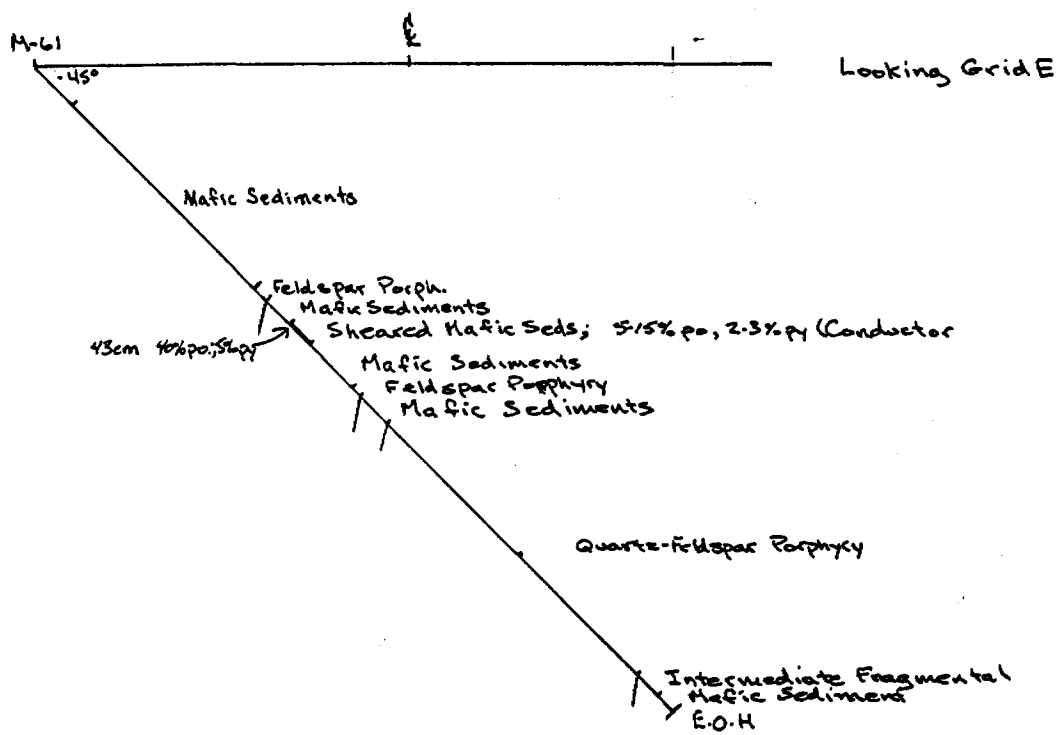
Property MISHI Project No. 227 Depth 60.04 m Date Began

Hole No. M-61 Co ord. L600E Horizontal Length Date Completed

Claim No. SSM 601009 9575 Core Size Drilled By

Grid No. M-4 Angle & Direction -45° S Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	g Au/t	Ag.	Cu.	Zn.
	SLUDGES	0	5.18	5.18	6854	.02			
		5.18	8.23	3.05	6855	.02			
		8.23	11.28	3.05	6856	.02			
		11.28	14.33	3.05	6857	.02			
		14.33	17.37	3.04	6858	.02			
		17.37	20.42	3.05	6859	.02			
		20.42	23.47	3.05	6860	.02			
		23.47	26.52	3.05	6861	.02			
		26.52	29.57	3.05	6862	.02			
		29.57	32.61	3.04	6863	.02			
		32.61	35.66	3.05	6864	.02			
		35.66	38.71	3.05	6865	.02			
		38.71	41.76	3.05	6866	.02			
		41.76	44.81	3.05	6867	.02			
		44.81	47.85	3.04	6868	.02			
		47.85	50.90	3.05	6869	.02			
		50.90	53.95	3.05	6870	.02			
		53.95	57.00	3.05	6871	.02			



Granges Exploration Ltd.

HOLE M-61

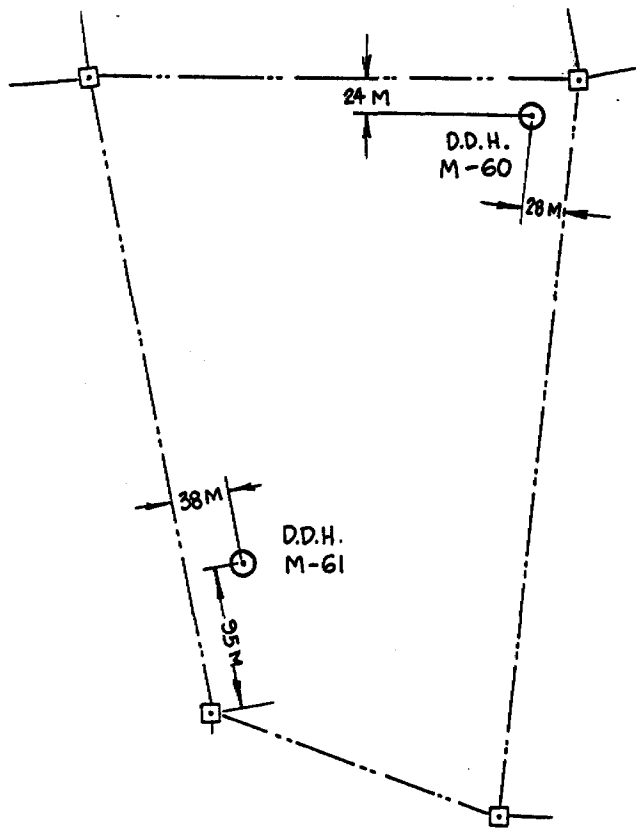
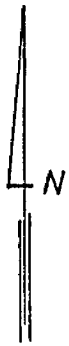
Mishi Option; Grid M-4

L600E, 9575

-45° Grid South

Claim SSM 601609

Scale: 1:500 1cm = 5m



GRANGES EXPLORATION LTD.
MISHI PROJECT
DIAMOND DRILLHOLE LOCATION PLAN
SCALE 1:5000
HOLE NO: M-60 & M-61

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

P1 of 3

Property MISHI OPTION Project No. 241 Depth 63.09m 2011 Date Began Oct. 13/86
 Hole No. M-62 Coord. L100W Horizontal Length _____ Date Completed Oct. 14/86
 Claim No. SSM 601662 720S Core Size Aq Drilled By Mocisette
 Grid No. M- 3 Angle & Direction -55°S Elevation _____ Logged By W. Bates

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Aug/A	Aggl.	Cu.	Zn.
0-3.53	Casing	6.40	6.71	.31	3851	.02	.5		
		6.71	6.86	.15	3852	.02	.5		
3.53-3.68	Greywacke, siltstone - Dark grey - v.f.g. - finely bedded	6.86	7.16	.30	3853	.02	1.5		
		6.23	8.53	.30	3854	.02	1.0		
		8.53	8.84	.31	3855	.02	1.5		
		8.84	9.14	.30	3856	.02	1.0		
		9.14	9.80	.66	3857	.02	1.5		
3.68-4.22	Quartz Porphyry - Lt green-grey - very fine grained - rare 1-2 mm grey qtz. phenocrysts - highly siliceous	9.80	10.32	.52	3858	.02	.5		
		10.32	10.97	.65	3859	.02	.5		
		10.97	11.43	.46	3860	.02	1.0		
		11.43	11.58	.15	3861	.02	.5		
		11.58	11.89	.31	3862	.02	.5		
		11.89	12.19	.30	3863	.02	1.0		
		12.19	14.84	2.65	WASTE				
4.22-9.79	Greywacke; Siltstones - Dark grey to buff - finely bedded on 2-5cm scale - dominantly siltstone, approx 10% wacke units 6.70-6.80 QTZ-CALCITE BRECCIA, 5-7% Py. + PO. 8.22-9.14 MINOR (5%) QTZ-CARB. VEINLETS	14.84	15.79	.95	3864	.02	1.5		
		15.79	16.09	.70	3865	.02	.5		
		16.09	16.40	.31	3866	.02	1.0		
		16.40	17.77	1.37	WASTE				
		17.77	18.07	.30	3867	.02	2.0		
		18.07	18.68	.61	3868	.02	1.5		
		18.68	19.29	.61	3869	.02	1.0		
9.79-10.31	Feldspar Porphyry - Light Grey - 20% white, 2-5mm, subhedral feldspars - very fine groundmass	19.29	20.12	.83	3870	.02	2.5		
		20.12	20.42	.30	3871	.02	1.0		
		20.42	20.73	.31	3872	.02	1.5		
		20.73	21.03	.40	3873	.02	.5		
		21.03	28.65	7.62	WASTE				
		28.65	28.96	.31	3874	.02	1.0		
10.31-11.43	Diabase - Fine grained (<1mm) - granular texture - olive green	28.96	29.26	.30	3875	.02	1.0		
		29.26	29.57	.31	3876	.02	.5		
		29.57	30.18	.61	3877	.02	.5		
		30.18	30.78	.60	3878	.02	.5		
		30.78	31.47	.68	3879	.02	1.0		
11.43-11.58	Graphite-Pyrite Schist (Conductor) - black - 30-40% pyrite; f.g. → 5mm - schistose, pyrite in stringers conformable to schistosity	31.47	32.08	.61	3880	.02	1.5		
		32.08	32.54	.46	3881	.02	.5		
		32.54	33.22	.68	3882	.02	1.5		
		33.22	33.71	.49	3883	.02	1.0		
		33.71	34.38	.67	3884	.02	1.0		
		34.38	34.90	.52	3885	.02	.5		
		34.90	35.59	.69	3886	.02	1.0		
		35.59	36.27	.68	3887	.02	1.0		

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

P20f3

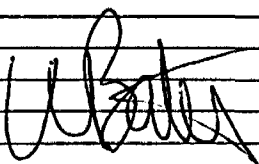
Property Project No. Depth Date Began
 Hole No. M-62 (Cont'd) Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
11.58 - 14.84	Diabase - as before	36.27	37.19	.92	3888	.02	1.0		
		37.19	38.10	.91	3889	.02	.5		
		38.10	39.01	.91	3890	.02	.5		
		39.01	39.93	.92	3891	.02	1.0		
		39.93	40.84	.91	3892	.02	.5		
14.84 - 15.78	Feldspar-Porphyry - as before	40.84	41.76	.92	3893	.02	1.5		
		41.76	42.67	.91	3894	.02	.5		
		42.67	43.59	.92	3895	.02	.5		
		43.59	44.50	.91	3896	.02	.5		
		44.50	45.42	.92	3897	.02	.5		
15.78 - 31.47	Diabase Gabbro - 15.9-19.81 → coarse gabbro, grain size 4-7mm amphiboles 19.07-18.6 → 10% CTZ-CARB STRINGERS 20.42-20.72 → OTZ-CARB VEIN TR. py, TR. sphalerite 28.9-31.47 → very fine grained; sheared; contorted schistosity * 28.9-29.25 siliceous, 5% fuchsite, Sem smoky qtz, 2.5% py. * 30.78-31.47 3-5% fuchsite, 5% py, siliceous grey schist	45.42	46.33	.91	3898	.02	.5		
		46.33	47.24	.91	3899	.02	.5		
		47.24	48.16	.92	3900	.02	.5		
		48.16	49.07	.91	3901	.02	.5		
		49.07	49.99	.92	3902	.02	1.0		
		49.99	50.90	.91	3903	.07	.5		
		50.90	51.82	.92	3904	.02	.5		
		51.82	52.73	.91	3905	.06	.5		
31.47 - 32.53	Feldspar Porphyry - as before	52.73	53.49	.76	3906	.02	.5		
		53.49	53.80	.31	3907	.18	.5		
		53.80	54.10	.30	3908	.25	.5		
		54.10	54.86	.76	3909	.02	1.0		
		54.86	55.78	.92	3910	.02	.5		
32.53 - 33.22	Siliceous Schist - Fuchsite to 10% - Pyrite 10-20% in 2-3mm blebs - Dark GREY-GREEN IN COLOUR	55.78	56.69	.91	3911	.02	.5		
		56.69	57.15	.45	3912	.42	1.5		
		57.15	57.76	.61	3913	.19	2.0		
		57.76	58.22	.46	3914	.13	.5		
		58.22	58.83	.59	3915	.05	1.0		
33.22 - 33.71	Feldspar Porphyry	58.83	59.44	.61	3916	.15	1.5		
		59.44	60.05	.61	3917	.02	.5		
		60.05	60.96	.91	3918	.02	1.5		
		60.96	61.87	.91	3919	.02	1.5		
		61.87	62.79	.92	3920	.02	1.0		
33.71 - 35.58	Graphitic Schist + Greywacke (Conductor) - Dark grey to black - 30% graphitic zones; esp. 33.71-34.32	62.79	63.09	.30	3921	.02	1.5		
					E.O.H				
35.58 - 53.49	Feldspar Porphyry - medium grained - as before - 52.72-53.49 → very fine grained; (chill margin) - traces arsenopyrite in 1mm fractures								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

P3083

Property MISHI Project No. 227 Depth Date Began
 Hole No. M-62 (Cont'd) Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

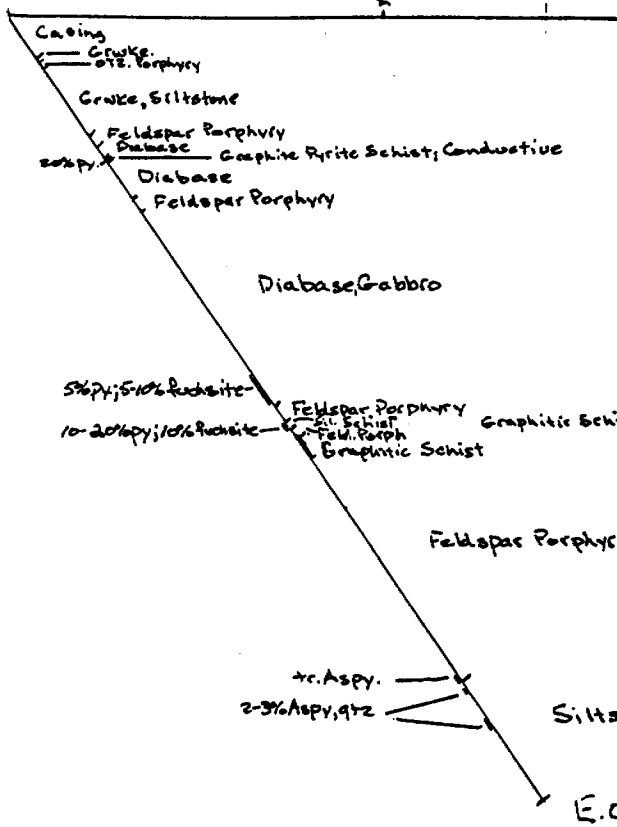
INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
53.49-63.09	Finally Bedded Siltstones - Lt to dark grey - Bedded on mm to 5mm scale - Well formed beds - rhythmites → grades Lt to dark grey and repeats cycle * 53.79-54.10 → tr-2%, 1-3mm Arsenopyrite, tr pyrite, with 5% cm. sized smoky grey quartz * 54.80-55.77 → slightly sericitic, sheared * 56.69-57.15 → 2-3% coarse Arsenopyrite needles to 4mm, 10 cm smoky qtz vein, tr py. * 57.15-57.75 → silicified, slightly sericitic 2-3% Arsenopy. * 57.75-58.21 → trace fine arsenopyrite in sericitized siltstone * 62.90-63 → 4%, 2-mm Qtz. CARB VEINLETS, 2% sphalerite								
E.O.H.	Core Angles 11.58 → 50° 17.84 → 50° 32.90 → 60° 54.25 → 67° 62.63 → 70°  W. Bates								


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Project No. Depth Date Began
Hole No. M-62 Co ord. Horizontal Length Date Completed
Claim No. Core Size Drilled By
Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION <u>SLUDGE</u>	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag.	Cu.	Zn.
		0	5.18	5.18	6872	.02			
		5.18	8.22	3.05	6873	.02			
		8.22	11.27	3.05	6874	.02			
		11.27	14.32	3.05	6875	.02			
		14.32	17.37	3.05	6876	.02			
		17.37	20.42	3.05	6877	.02			
		20.42	23.46	3.04	6878	.02			
		23.46	26.51	3.05	6879	.02			
		26.51	29.56	3.05	6880	.02			
		29.56	32.61	3.05	6881	.02			
		32.61	35.66	3.05	6882	.02			
		35.66	38.70	3.04	6883	.02			
		38.70	41.75	3.05	6884	.07			
		41.75	44.80	3.05	6885	.06			
		44.80	47.85	3.05	6886	.05			
		47.85	50.90	3.05	6887	.04			
		50.90	53.94	3.04	6888	.02			

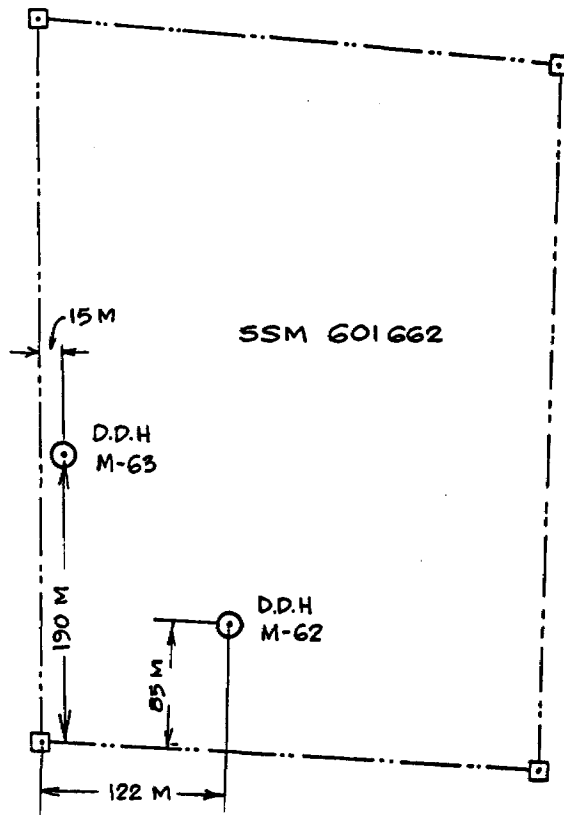
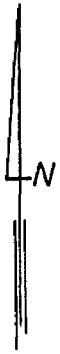
M-62



Looking East

1:500

Granges Exploration
 D.O.H. M-62
 Grid M-3, MISHI ORION
 L100W; 720S ; -55°S
 CLAIM SSM 601662



GRANGES EXPLORATION LTD.
MISHI PROJECT
DIAMOND DRILLHOLE LOCATION PLAN
SCALE 1:5000
HOLE NR : M-62 & M-63


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Mishi Option Project No. 441 Depth 136.24 Date Began Oct. 16/86
 Hole No. M-63 Co ord. L200W Horizontal Length Date Completed Oct. 18/86
 Claim No. SSM 601662 6105 Core Size Aq Drilled By N. Morissette
 Grid No. M-3 Angle & Direction -50°S Elevation Logged By W. BATES

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag. g/t	Cu.	Zn.
0-2.43	Casing	0	2.43	2.43	CASING				
		2.43	14.02	11.59	WASTE				
2.43-18.90	Greywacke w/ Graphitic zones (Conductive) Lt grey to black Bedded bedding on 2-5cm scale Well bedded Sections of graphitic Schist	14.02	14.63	.61	3936	.02	.5		
		14.63	15.24	.61	3937	.02	.5		
		15.24	15.85	.61	3938	.02	.5		
		15.85	16.46	.61	3939	.02	.5		
		16.46	17.07	.61	3940	.02	.5		
		17.07	17.67	.60	3941	.02	1.0		
		17.67	18.28	.61	3942	.02	.5		
		18.28	18.89	.61	3943	.02	.5		
		18.89	19.50	.61	3944	.02	.5		
18.90-38.55	Gabbro Dark green, granular texture Average Grain size 2-3mm Fine grained upper and lower contact	18.90	19.50						
		37.18	38.55						
		19.50	42.14	22.64	WASTE				
		42.14	42.74	.60	3945	.02	.5		
		42.74	43.05	.31	3946	.02	.5		
		43.05	43.66	.61	3947	.02	.5		
		43.66	52.12	8.45	WASTE				
38.55-42.74	Greywacke - as before except; Poorly bedded	52.12	52.73	.61	3948	.02	.5		
		52.73	53.18	.45	3949	.02	.5		
		53.18	53.95	.77	3950	.02	.5		
		53.95	55.62	1.67	WASTE				
		55.62	56.23	.61	1952	.02	.5		
42.74-43.05	Feldspar Porphyry - white to light grey - 30-50% subhedral 3-4mm feldspar crystals - fine grained, white, siliceous groundmass	56.23	56.84	.61	1953	.02	.5		
		56.84	57.45	.61	1954	.02	.5		
		57.45	58.06	.60	1955	.02	.5		
		58.06	107.19	49.13	WASTE				
		107.19	107.50	.31	1956	.02	.5		
		107.50	107.80	.30	1957	.02	.5		
43.05-56.84	Greywacke w/ Conductive Graphite sections - Poorly to well bedded - graphitic zones	107.80	108.81	1.01	1958	.02	.5		
		108.81	109.57	.76	1959	.02	.5		
		109.57	110.03	.46	1960	.02	.5		
		110.03	110.94	.91	1961	.02	.5		
		110.94	111.86	.92	1962	.02	.5		
56.84-96.67	Diabase Lt green, fine grained Granular texture	111.86	112.47	.63	1963	.02	.5		
		112.47	113.46	.99	1964	.02	.5		
		113.46	114.07	.61	1965	.02	.5		
		114.07	132.70	19.28	WASTE				
		132.70	133.38	.68	1966	.02	.5		
		133.38	134.29	.91	1967	.02	.5		
		134.29	134.72	.43	1968	.02	.5		
		134.72	135.33	.61	1969	.02	.5		


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

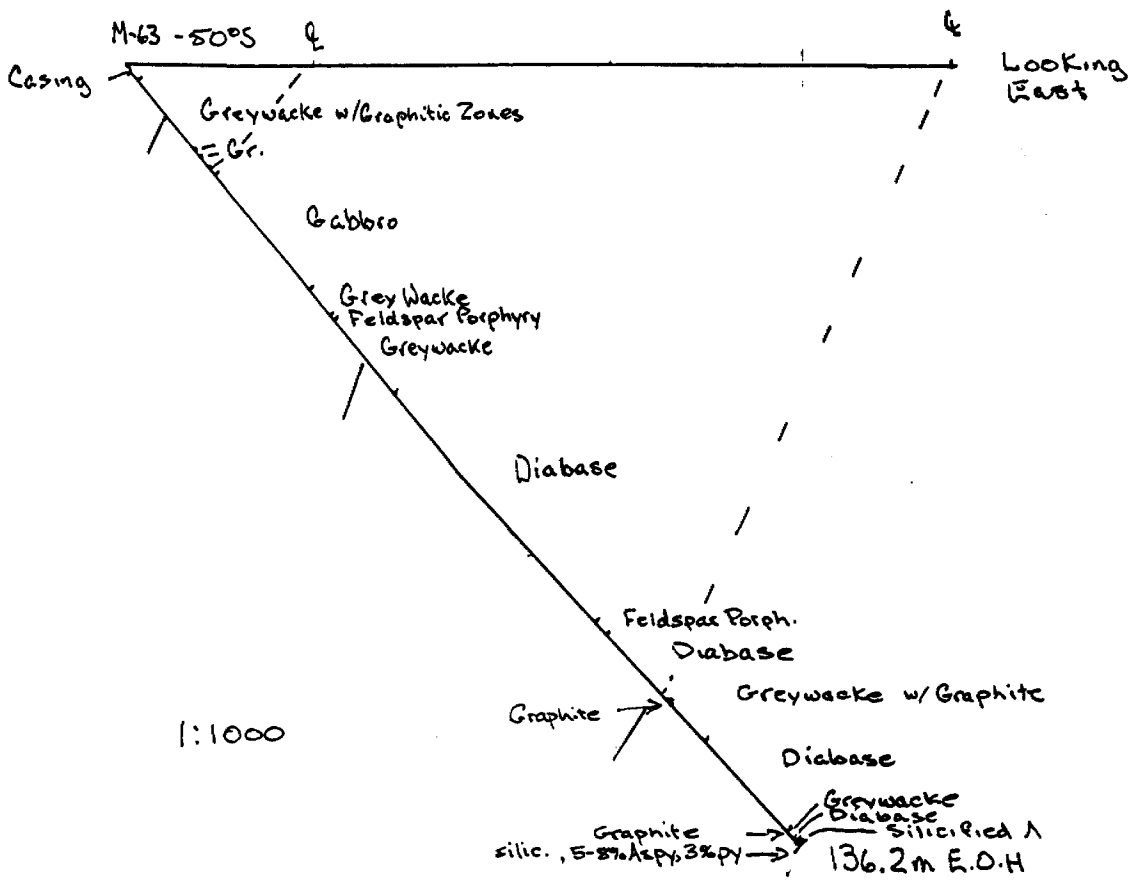
Property Project No. Depth Date Began

Hole No. M-63 Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Aug/A	Ag.	Cu.	Zn.
	<u>SLUDGE</u>	0	5.18	5.18	6889	.02			
		5.18	8.22	3.05	6890	.06			
		8.22	11.27	"	6891	.02			
		11.27	14.32	"	6892	.02			
		14.32	17.37	"	6893	.02			
		17.37	20.42	"	6894	.02			
		20.42	23.46	3.04	6895	.02			
		23.46	26.51	3.05	6896	.02			
		26.51	29.56	"	6897	.02			
		29.56	32.61	"	6898	.02			
		32.61	35.66	"	6899	.07			
		35.66	38.70	3.04	3922	.06			
		38.70	41.75	3.05	23	.02			
		41.75	44.80	"	24	.02			
		44.80	47.85	"	25	.02			
		47.85	50.90	"	26	.08			
		50.90	53.94	3.04	27	.08			
		53.94	56.99	3.05	28	.06			
		56.99	60.04	"	29	.09			
		60.04	63.09	"	39 30	.07			
		63.09	66.14	"	31	.09			
		66.14	69.18	3.04	32	.08			
		69.18	72.24	3.06	33	.02			
		72.24	75.28	3.04	34	.02			
		75.28	78.33	3.05	39 35	.07			
		78.33	136.20	57.80	NO WATER RETURNS				



Granges Exploation

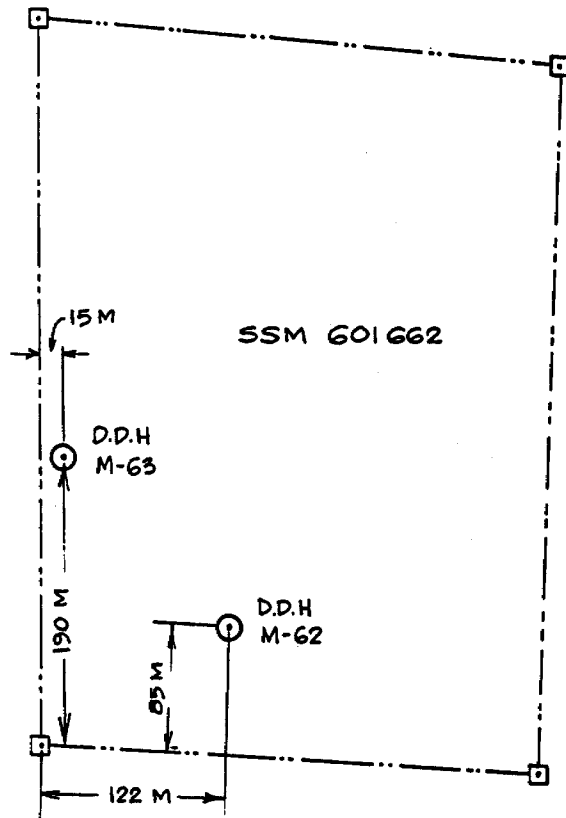
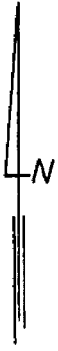
D.D.H M-63

MISHI OPTION

Grid M-3

L200W, 610S, -50°S

CLAIM SSM 601662



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO : M-62 & M-63

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property..... Mishi Option Project No. 221 Depth... 60.04m. Date Began... Oct. 18/86
 Hole No. M-64 Co ord. L0400W Horizontal Length Date Completed Oct. 19/86
 Claim No. SSM 601681 320 S Core Size Ag Drilled By Morissette
 Grid No. M-3 Angle & Direction -50°S Elevation Logged By W. BATES

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-2.43	Casing	0	2.43	2.43	CASING				
		2.43	29.64	27.21	WASTE				
2.43-30.25	Felsic tuff / Greywacke - Lt. grey to very pale green - Massive granular to fine bedded 9.44-9.75 finely bedded argillite 30.17-30.25 QTZ-SERICITE SCHIST	29.64	30.25	.61	4020	.02	.5		
		30.25	30.78	.53	4021	.02	.5		
		30.78	31.39	.61	4022	.02	.5		
		31.39	32.00	.61	4023	.02	1.0		
		32.00	32.61	.61	4024	.02	.5		
		32.61	33.22	.61	4025	.02	1.0		
		33.22	33.83	.61	4026	.02	.5		
30.25-33.90	Graphitic Argillite (Conductor) - black to dark grey - up to 70% graphite; 2-3% pyrite - finely bedded 2-3mm. scale 31.7-32.24 ⇒ 25% 2-3cm smoky grey qtz veins 32.6-32.69 ⇒ QTZ-CARB VEIN	33.83	34.44	.61	4027	.02	.5		
		34.44	35.05	.61	4028	.02	.5		
		35.05	35.66	.61	4029	.02	.5		
		35.66	36.27	.61	4030	.02	.5		
		36.27	36.88	.61	4031	.02	.5		
		36.88	37.67	.89	4032	.02	.5		
		37.67	38.31	.70	4033	.02	.5		
33.90-60.04m	Bedded wackes / Siltstones Massive, lt. grey wackes, bedded (10cm) Interlayered with v.f.g. black argillites (2.5cm) Graded bedding indicates tops to North. 31.60-38.37 ⇒ quartz-sericite w/10% smoky grey 1-2cm quartz veins; trace pyrite 39.01-39.31 ⇒ 50% qtz vein in sericitic schist 41.60-43.28 ⇒ SCATTERED (2%) 1-2cm smoky grey qtz veins 44.65-45.11 ⇒ Graphite Schist (Conductive) 49.37-49.38 ⇒ " " 2% pyrite	38.31	39.01	.64	4034	.02	.5		
		39.01	39.31	.30	4035	.02	.5		
		39.31	39.92	.61	4036	.02	.5		
		39.92	40.53	.61	4037	.02	.5		
		40.53	41.14	.61	4038	.02	.5		
		41.14	41.60	.46	4039	.02	.5		
		41.60	42.06	.46	4040	.02	.5		
		42.06	42.67	.61	4041	.02	.5		
		42.67	43.28	.61	4042	.02	.5		
		43.28	43.89	.61	4043	.02	.5		
		43.89	44.65	.75	4044	.02	.5		
		44.65	45.11	.46	4045	.02	.5		
		45.11	45.41	.30	4046	.02	1.0		
		45.41	48.76	3.35	WASTE				
		48.76	49.37	.61	4047	.02	.5		
		49.37	49.83	.46	4048	.02	.5		
		49.83	50.29	.46	4049	.02	.5		
		50.29	60.04	9.75	WASTE				

Core Angles
 9.44 → 70°
 30.17 → 77°
 39.01 → 73°
 50.29 → 74°

W. Bates
 W. Bates


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

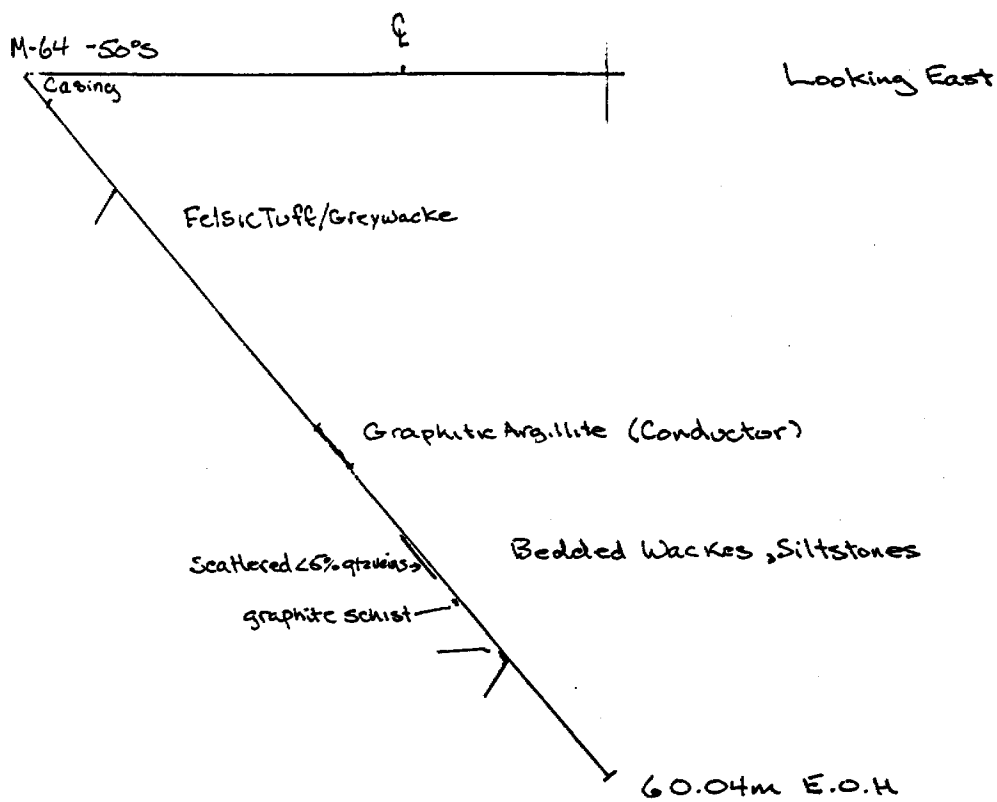
Property Project No. Depth Date Began

Hole No. M-64 Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

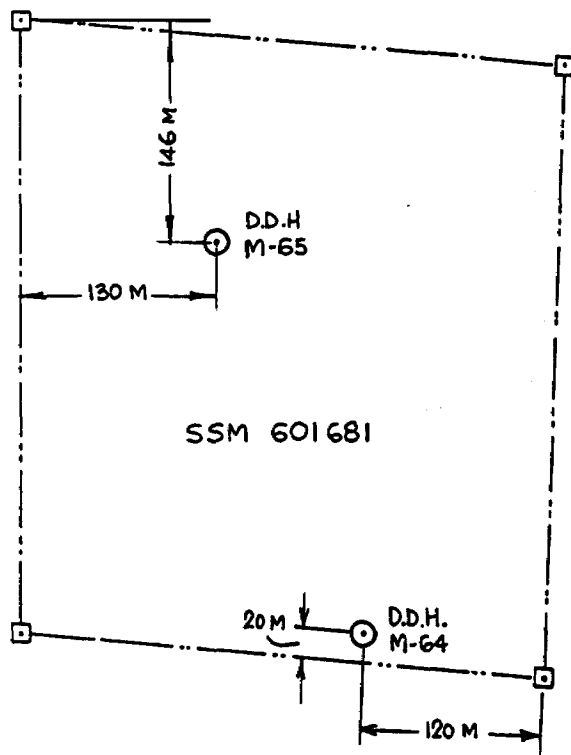
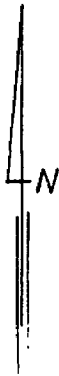
Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au _g /A	Ag.	Cu.	Zn.
	SLUDGE	0	5.18	5.18	3951	.10			
		5.18	8.22	3.04	3952	.02			
		8.22	11.27	3.05	53	.02			
		11.27	14.32	"	54	.02			
		14.32	17.37	"	55	.02			
		17.37	20.42	"	56	.02			
		20.42	23.46	3.04	57	.02			
		23.46	26.51	3.05	58	.02			
		26.51	29.56	"	59	.02			
		29.56	32.61	"	60	.02			
		32.61	35.66	"	61	.02			
		35.66	38.70	3.04	62	.02			
		38.70	41.75	3.05	63	.02			
		41.75	44.80	"	64	.02			
		44.80	47.85	"	65	.02			
		47.85	50.90	"	66	.02			
	50.90	53.94	3.04	67	.02				
	53.94	56.99	3.05	68	.02				
	56.99	60.04	3.05	69	.02				



Granges Exploration
 D.D.H M-64
 MISHI OPTION
 Grid M-3
 LOOW, 320 S, -50°S
 CLAIM 55M 601681.

1:500



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILLHOLE LOCATION PLAN
SCALE 1:5000

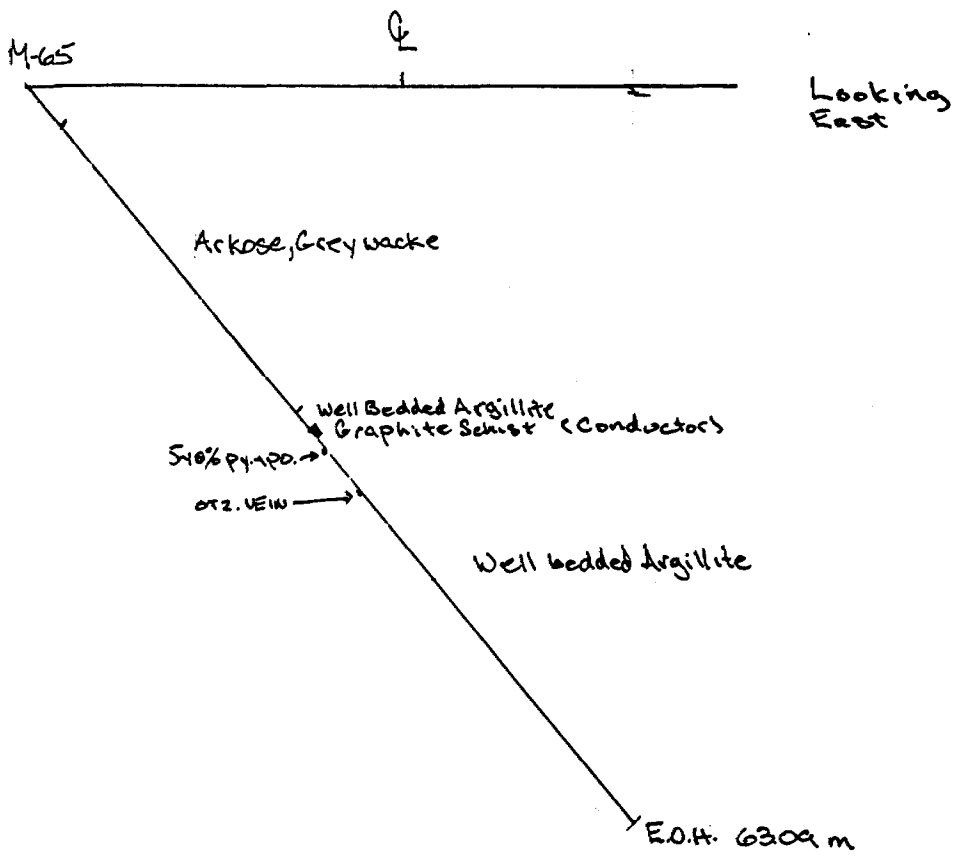
HOLE NO: M-64 & M-65

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

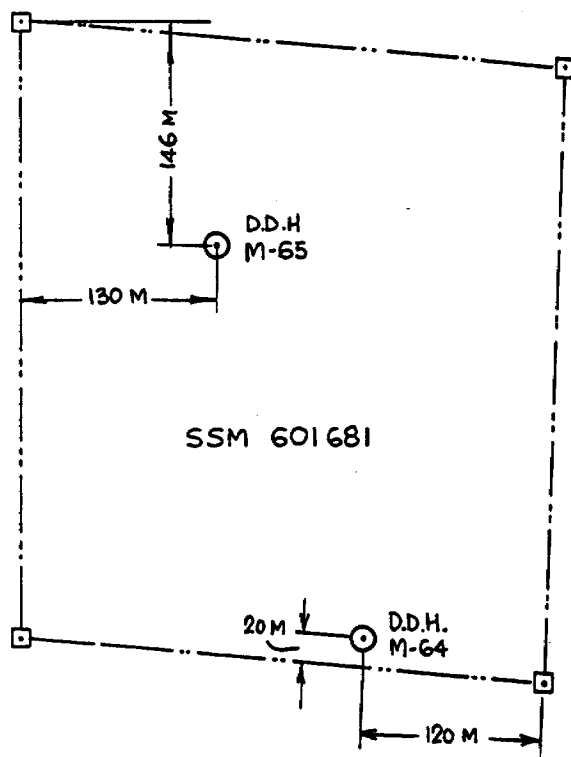
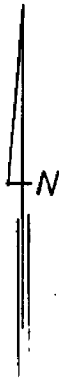
Property Mishi Option Project No. 227 Depth 63.09 Date Began Oct. 20/86
 Hole No. M-65 Co ord. L100W Horizontal Length _____ Date Completed Oct 21/86
 Claim No. SSM 601681 062 S Core Size A9 Drilled By Morissette
 Grid No. M-3 Angle & Direction -50°S Elevation _____ Logged By W. Bates

INTERVAL FEET METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-3.50	Casing	0	3.50	3.50	CASING				
		3.50	28.95	25.45	WASTE				
3.50-27.73	Arkose + Greywacke	28.95	29.51	.61	4050	.02	.5		
	- Light grey to pale green	29.51	30.17	.61	405	.02	.5		
	- 1-2mm rounded quartz + feldspar clasts	30.17	30.78	.61	4051	.02	.5		
	- siliceous matrix	30.78	31.39	.61	4052	.02	.5		
		31.39	32.30	.91	4053	.02	.5		
27.73-29.56	Well Bedded Argillite	32.30	32.91	.61	4054	.02	.5		
	- light grey to black	32.91	33.52	.61	4055	.02	.5		
	- bedded on mm to cm scale	33.52	34.13	.61	4056	.02	.5		
	- fine grained	34.13	34.74	.61	4057	.02	.5		
		34.74	35.35	.61	4058	.02	.5		
29.56-30.17	Graphite Schist (Conductor)	35.35	35.96	.61	4059	.02	.5		
	- Schistose	35.96	36.57	.61	4060	.02	.5		
	- 90% graphite	36.57	37.18	.61	4061	.02	.5		
	- trace pyrite	37.18	37.79	.61	4062	.02	.5		
		37.79	38.40	.61	4063	.02	.5		
		38.40	39.01	.61	4064	.02	.5		
30.17-63.09	Well bedded Argillite	39.01	39.62	.61	4065	.02	.5		
	- as before	39.62	40.53	.91	4066	.02	.5		
		40.53	63.09	22.56	WASTE				
					E.O.H				
	31.92 - 32.08 - 5-10% .5-1cm blebs pyrite + pyrrhotite								
	34.89 - 35.05 - QTZ-CARB. VEIN								
	39.62 - 40.20 - black argillite, 20-30% graphite								
63.09 m	Core Angles	0	5.18	5.18	3971	.02			
E.O.H	18.89 m - 60°	5.18	8.22	3.04	L.W.R				
	28.95 m - 65°	8.22	11.27	3.05	3973	.02			
	40.20 m - 62°	11.27	63.09	51.82	No WATER				
	62.48 m - 70°				RETURN				

[Handwritten signature]



Granges Exploration
 D.D.H M-65
 Grid M-3, MISHI OPTION
 L 100W, 07625, -50°S
 CLAIM SSM 601681



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO: M-64 & M-65


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property MISHI OPTION Project No. 227 Depth 60.06 Date Began OCT. 21/86
 Hole No. M-66 Co ord. L1500W Horizontal Length _____ Date Completed OCT 22/86
 Claim No. 8SM 601657 518.5 Core Size Rq Drilled By Morrisette
 Grid No. M-3 Angle & Direction -45°S Elevation _____ Logged By W. BATES

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 2.74	<u>Casing</u>	0	2.74	2.74	CASING				
		2.74	6.40	3.66	WASTE				
2.74 - 6.40	<u>Greywacke</u> - lt. green to grey - poorly bedded - fine to medium grained	6.40	7.01	.61	4067	.02	.5		
		7.01	7.62		4068	.02	.5		
		7.62	8.23		4069	.02	.5		
		8.23	8.84		4070	.02	.5		
		8.84	9.45		4071	.02	.5		
		9.45	10.06		4072	.02	.5		
6.40 - 12.34	<u>Feldspar Porphyry</u> - white, 1-3mm, feldspars; 30% - white, siliceous, fine grained groundmass	10.06	10.67		4073	.02	.5		
		10.67	11.28		4074	.02	2.0		
		11.28	11.89		4075	.02	.5		
		11.89	12.50	↓	4076	.02	.5		
12.34 - 14.11	<u>Greywacke</u> - as before	12.50	13.11	.61	4077	.02	.5		
		13.11	13.71	.60	4078	.02	.5		
		13.71	14.11	.40	4079	.02	.5		
14.11 - 14.63	<u>Graphitic Argillite (Conductor)</u> - black, fine grained - 60-70% graphite, trace pyrite	14.11	14.63	.52	4080	.02	.5		
		14.63	15.24	.61	4081	.02	1.0		
		15.24	15.85	.61	4082	.02	.5		
		15.85	16.46	.61	4083	.02	.5		
14.63 - 15.19	<u>Feldspar Porphyry</u> - as before - 10% unidentified black mineral, dendritic 14.63-14.90	16.46	17.07		4084	.02	.5		
		17.07	17.68		4085	.02	.5		
		17.68	18.29		4086	.02	1.0		
		18.29	18.90		4087	.02	.5		
15.19 - 47.17	<u>Conglomerate</u> - Chloritic - Mottled shades of green, on 2cm-10cm scale - appears fine grained, but colour variation indicates conglomerate - 18.9-19.5 minor 2-3cm qtz-carb. veins	18.90	19.51		4088	.02	.5		
		19.51	20.12	↓	4089	.02	.5		
		20.12	20.73	.61	4090	.02	.5		
		20.73	44.51	23.78	WASTE				
		44.51	45.17	.61	4091	.02	.5		
		45.17	45.78		4092	.02	1.0		
		45.78	46.39		4093	.02	.5		
47.17 - 47.78	<u>Graphitic Schist + Greywacke</u> - 5-6cm zones, slightly graphitic schist; 30%	46.39	47.00		4094	.02	.5		
		47.00	47.61		4095	.02	.5		
		47.61	48.22		4096	.02	.5		
47.78 - 48.04	<u>Feldspar Porphyry</u> - as before	48.22	48.83		4097	.02	.5		
		48.83	49.44		4098	.02	.5		
		49.44	50.05	↓	4099	.02	.5		
48.04 - 52.34	<u>Conglomerate</u> - as before	50.05	50.66	.61	4100	.02	.5		
		50.66	60.06	9.40	WASTE				



**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Project No. Depth Date Began
 Hole No. M-66 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
52.34-53.65	<u>Feldspar Porphyry</u>								
53.65-60.06	<u>Greywacke</u> - well bedded								
60.06m E.O.H									
	<u>Core Angles</u>								
	14.32m → 70°								
	21.70m → 72°								
	50m → 72°								
	<i>[Handwritten Signature]</i>								

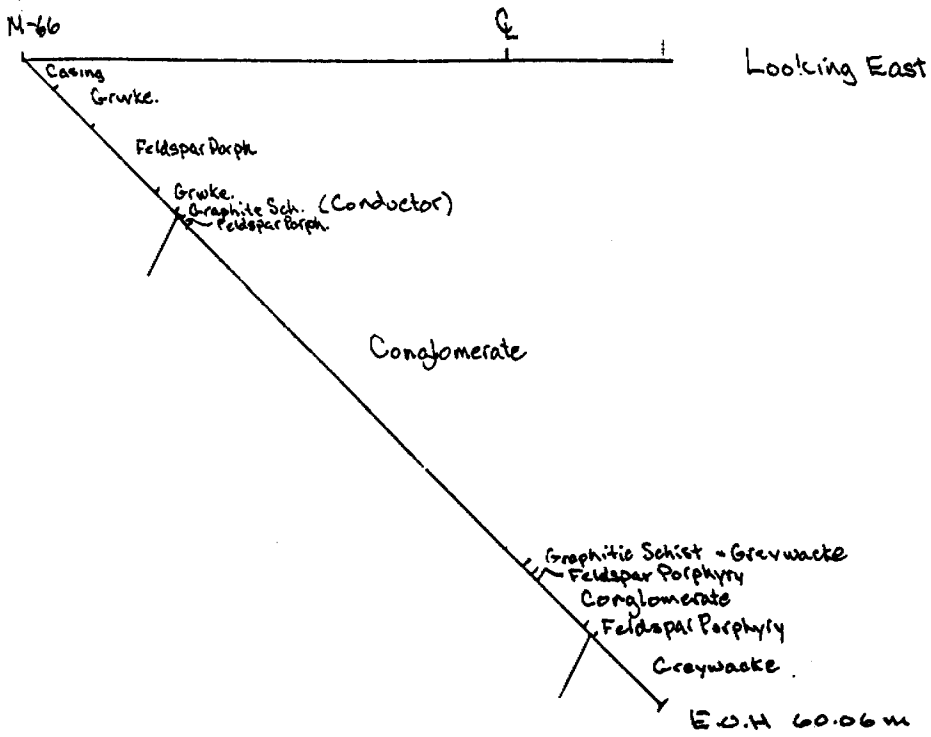


**GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD**

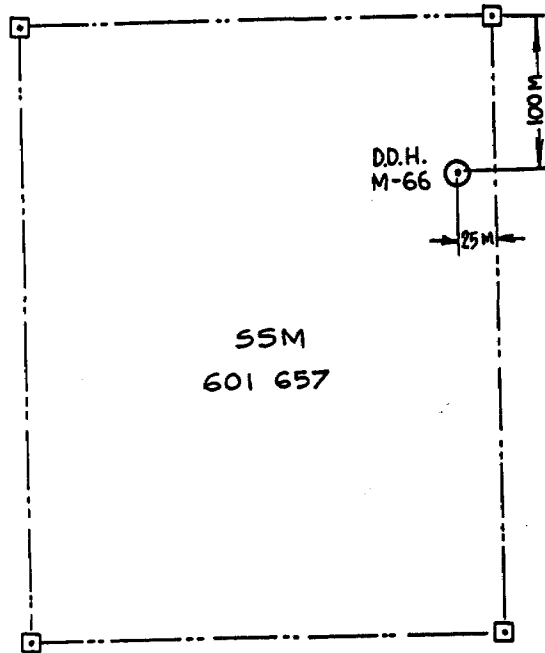
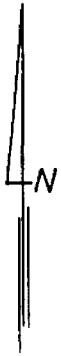
*SLUDGES

Property Project No. Depth Date Began
 Hole No. M-66 Co ord Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET / METRES	NUMBER	WIDTH	Au. g/t	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
0 - 5.18	3982	5.18	.02																
5.18 - 8.23	83	3.05	.02																
8.23 - 11.28	84	"	.48																
11.28 - 14.33	85	"	.02																
14.33 - 17.37	86	"	.02																
17.37 - 20.42	87	"	.04																
20.42 - 23.47	88	"	.02																
23.47 - 26.52	89	"	.05																
26.52 - 29.57	90	"	.02																
29.57 - 32.61	91	"	.04																
32.61 - 35.66	92	"	.09																
35.66 - 38.71	93	"	.05																
38.71 - 41.76	94	"	.02																
41.76 - 44.81	95	"	.02																
44.81 - 47.85	96	"	.02																
47.85 - 50.90	97	"	.02																
50.90 - 53.95	98	"	.02																
53.95 - 57.00	99	"	.05																
57.00 - 60.05	4000	3.05	.02																



Granges Exploration
 D.D.H. M-66
 Grid M-3, L1500W, S185, -45°
 CLAIM SSM 601658
 MISHI OPTION



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO: M-66


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property MISHI OPTION Project No. 227 Depth 61.87 m Date Began Oct. 23/86
 Hole No. M-67 Co ord. L. 1100 W Horizontal Length _____ Date Completed Oct. 24/86
 Claim No. SSM 601659 4605 Core Size A_g Drilled By Morissette
 Grid No. M-3 Angle & Direction -50°S Elevation _____ Logged By W. Bates

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. g/L	Ag.	Cu.	Zn.
0 - 2.74	Casing	0	2.74	2.74	CASING				
2.74 - 11.43	Diabase - light green - fine grained - granular crystalline texture - 3.04 - 8.22 → 2.0m (40%) core loss	2.74	23.16	20.42	WASTE				
		23.16	23.77	.61	4129	.02	.5		
		23.77	24.38	.61	4130	.02	.5		
		24.38	24.99	.61	4131	.02	.5		
		24.99	25.60	.61	4132	.02	.5		
		25.60	26.21	.61	4133	.02	.5		
		26.21	26.82	.61	4134	.02	.5		
		26.82	27.43	.61	4135	.02	.5		
11.43 - 12.07	Feldspar Porphyry - buff to white - 15-30% white-grey, subhedral, 2-5mm feldspars - siliceous white matrix	27.43	28.04	.61	4136	.02	1.0		
		28.04	28.65	.61	4137	.02	.5		
		28.65	29.26	.61	4138	.02	1.0		
		29.26	29.87	.61	4139	.02	.5		
		29.87	30.48	.61	4140	.02	.5		
12.07 - 18.56	Diabase - as before	30.48	31.09	.61	4141	.02	.5		
		31.09	31.70	.61	4142	.02	.5		
		31.70	32.31	.61	4143	.02	.5		
18.56 - 19.35	Feldspar Porphyry - as before	32.31	32.92	.61	4144	.02	.5		
		32.92	33.53	.61	4145	.02	.5		
		33.53	34.14	.61	4146	.02	1.0		
19.35 - 23.83	Diabase - as before	34.14	34.74	.60	4147	.02	.5		
		34.74	35.36	.62	4148	.02	.5		
		35.36	49.38	14.02	WASTE		.5		
23.83 - 26.36	Graphitic Argillite (Conductor) * - dark grey to black - extremely fine grained - well bedded, tr-2% py. in < 1mm stringers, conformable to bedding - 25.9 - 26.36 → 90% graphite - minor Feldspar porphyry bands: 23.98-24.14 24.59-24.81	49.38	49.99	.61	4149	.02	.5		
		49.99	50.60	.61	4150	.02	1.0		
		50.60	51.21	.61	4151	.02	.5		
		51.21	51.82	.61	4152	.02	1.5		
		51.82	52.43	.61	4153	.02	1.5		
		52.43	53.04	.61	4154	.02	1.0		
		53.04	53.64	.60	4155	.02	1.0		
		53.64	54.25	.61	4156	.02	.5		
		54.25	54.86	.61	4157	.02	.5		
26.36 - 33.68	Bedded Argillite - lt. grey to brown - fine grained, bedded on cm. scale	54.86	55.47	.61	4158	.02	.5		
		55.47	61.87	6.40	WASTE				
33.68 - 34.50	Graphitic Argillite - as before - 34.13-34.21 10% pyrrhotite in irregular 3-10mm blebs - 34.21-34.50 silicified; trace fuchsite								



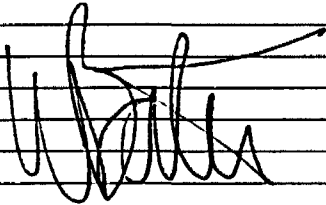
**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

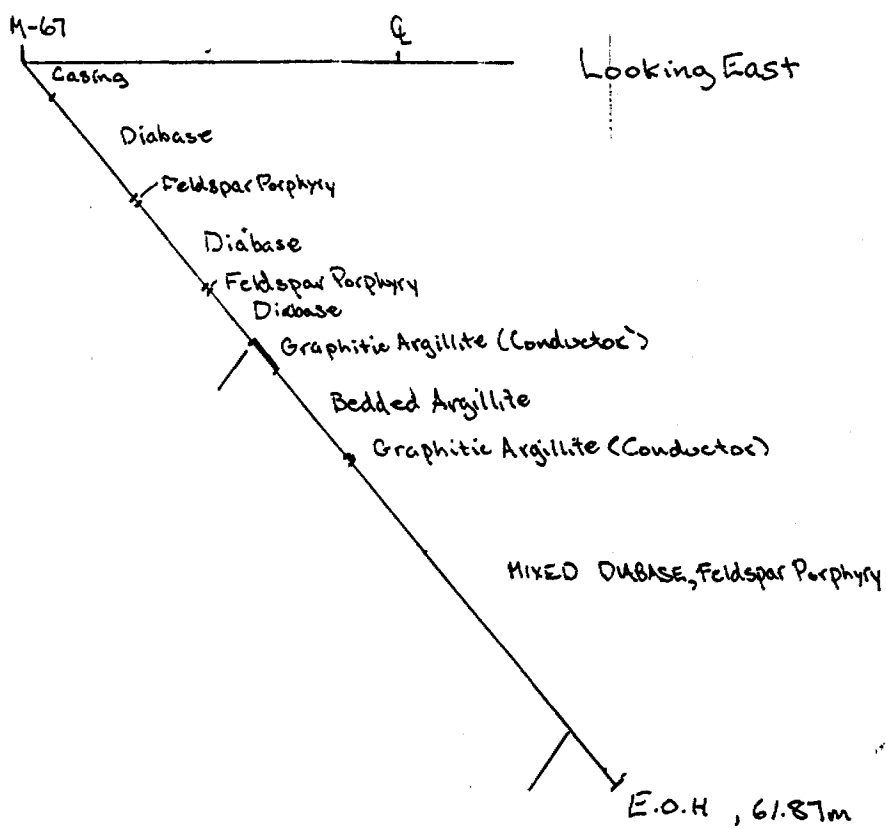
Property Project No. Depth Date Began

Hole No. M-67 (Cont'd) Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

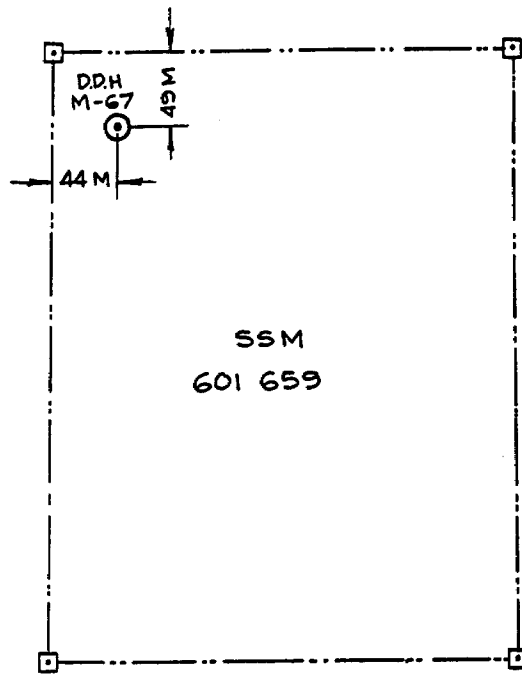
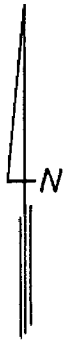
INTERVAL FEET / METRES	DESCRIPTION	SLUDGE				SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
34.50-39.07	<u>Diabase</u>	0	5.18	5.18	4159	.02				
		5.18	8.22	3.04	4160	.02				
		8.22	11.27	3.05	4161	.02				
39.07-39.53	<u>Feldspar Porphyry</u>	11.27	14.32	3.05	4162	.02				
		14.32	17.37	3.05	4163	.02				
39.53-46.32	<u>Diabase</u>									
46.32-46.90	<u>Feldspar Porphyry</u>									
46.90-49.68	<u>Diabase</u>									
49.68-53.64	<u>Feldspar Porphyry</u>									
53.64-61.87m	<u>Diabase</u>									
	<u>54.25-54.60 Feldspar Porphyry</u>									
61.87m	<u>Core Angles</u>									
F.O.H	<u>26.82m - 73° Bedding</u>									
	<u>54.25m - 15° Contact</u>									
 W. Bates										



Granges Exploration
 D.D.H. M-67
 Grid M-3, L1100W, 460S
 -50° South
 MISHI OPTION
 CLAIM SSM 601659

1:500

1cm = 5m



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO: M-67

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property MISHI OPTION Project No. 221 Depth 56.99 m Date Began Oct. 24/86
 Hole No. M-68 Coord. L2300W Horizontal Length _____ Date Completed Oct 25/86
 Claim No. SSM 601844 788 N Core Size A_g Drilled By Morissette
 Grid No. M-1 Angle & Direction -60° S Elevation _____ Logged By W. Bates

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Aug/4	Ag.	Cu.	Zn.
0-1.28	<u>Casing</u>	0	1.28	1.28	Casing				
		1.28	2.19	.91	4177	.02	.5		
		2.19	3.10	.91	4178				
1.28-42.21	<u>Felsic Schist</u>	3.10	4.02	.92	4179	.02	1.0		
	- Light buff to white, trace pyrite throughout	4.02	5.18	1.16	4180	.02	.5		
	- Schistose	5.18	6.09	.91	4181	.02	.5		
	- 20-30% fine grained sericite	6.09	7.01	.92	4182	.02	.5		
	- 3-5%, 3-7mm blue gray ovoid Qtz. eyes	7.01	7.92	.91	4183	.02	.5		
	- Sparse, 3-5mm stretched siliceous clasts	7.92	8.83	.91	4184	.02	.5		
	5.97-6.40 Chlorite Schist	8.83	9.75	.92	4185	.07	.5		
	13.07-13.19 Quartz-Ankerite Vein	9.75	10.66	.91	4186	.02	.5		
	17.25-17.89 Chlorite Schist	10.66	11.58	.92	4187	.02	.5		
	25.99-26.51 Chlorite Schist	11.58	12.49	.91	4188	.02	.5		
	28.80-28.87 Quartz Vein, 5% f.g. Pyrite + Pyrrhotite	12.49	13.41	.92	4189	.02	1.0		
	33.43-33.58 Smoky Grey quartz-ankerite vein	13.41	14.32	.91	4190	.02	.5		
	40.99-41.14 30% quartz veinlets	14.32	15.24	.92	4191	.02	1.0		
	41.14-41.30 Quartz Vein	15.24	16.15	.91	4192	.02	1.0		
		16.15	17.06	.91	4193	.02	1.5		
42.21-56.99	<u>Major Volcanic / CHLORITE SCHIST</u>	17.06	17.98	.92	4194	.02	.5		
	- fine grained; lt. green to dark green	17.98	18.89	.91	4195	.03	20.0		
	43.73-46.02 - minor carbonate alteration	18.89	19.81	.92	4196	.03	.5		
		19.81	20.72	.91	4197	.02	.5		
56.99 m		20.72	21.64	.92	4198	.06	1.0		
E.O.H	<u>Core Angles</u>	21.64	22.55	.91	4199	.05	1.0		
	15.84 m - 75°	22.55	23.46	.91	4200	.02	.5		
	34.74 m - 78°	23.46	24.38	.92	4201	.24	1.0		
	50.90 m - 83°	24.38	25.29	.91	4202	.13	.5		
		25.29	26.21	.92	4203	.09	.5		
		26.21	27.12	.91	4204	.05	.5		
		27.12	28.04	.92	4205	.02	.5		
		28.04	28.95	.91	4206	.09	.5		
		28.95	29.87	.92	4207	.19	.5		
		29.87	30.78	.91	4208	.11	.5		
		30.78	31.69	.91	4209	.14	1.0		
		31.69	32.61	.92	4210	.85	.5		
		32.61	33.52	.91	4211	.17	.5		
		33.52	34.44	.92	4212	.07	.5		
		34.44	35.35	.91	4213	.45	.5		
		35.35	36.27	.92	4214	.09	.5		
		36.27	37.18	.91	4215	.26	.5		

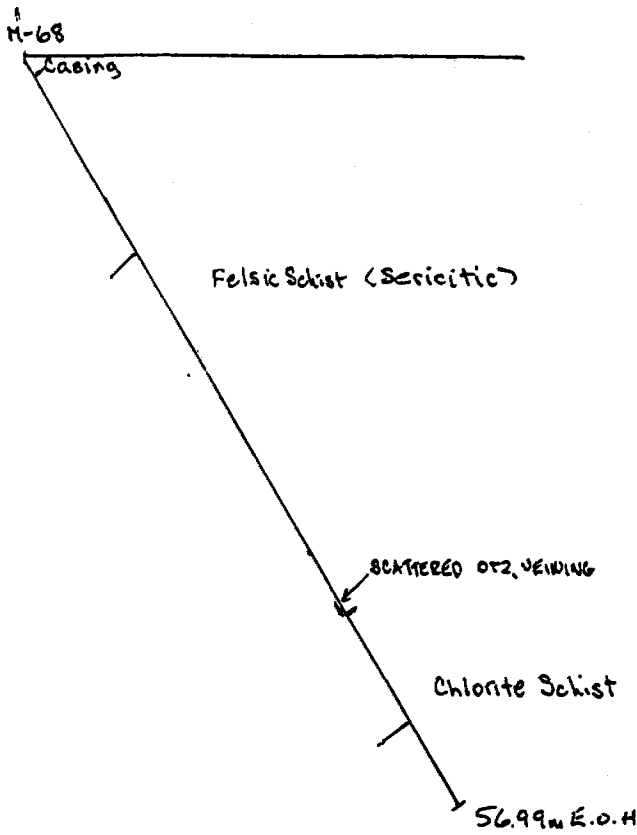
W. Bates

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

*SLUDGES

Property Project No. Depth Date Began
 Hole No. M68 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
0 - 5.18	4701	5.18	.02																
5.18 - 8.23	02	3.05	.02																
8.23 - 11.28	03	"	.02																
11.28 - 14.33	04	"	.03																
14.33 - 17.37	05	"	.02																
17.37 - 20.42	06	"	.06																
20.42 - 23.47	07	"	.09																
23.47 - 26.52	08	"	.19																
26.52 - 29.57	09	"	.39																
29.57 - 32.61	10	"	.55																
32.61 - 35.66	11	"	.77																
35.66 - 38.71	12	"	.45																
38.71 - 41.76	13	"	.79																
41.76 - 44.81	14	"	.20																
44.81 - 47.85	15	"	.02																
47.85 - 50.90	16	"	.06																
50.90 - 53.95	17	"	.02																
53.95 - 57.00	4718	3.05	.02																



Granges Exploration

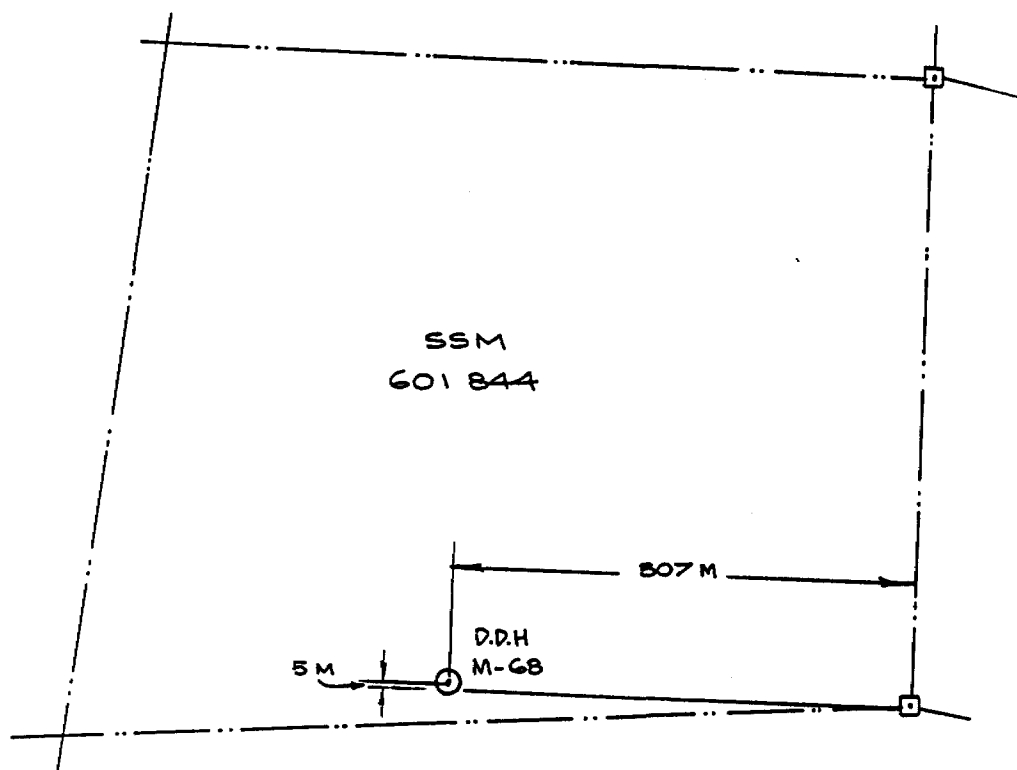
MISHI OPTION

D.D.H. M-68

Grid M-1, L2300W, 788N, -60°S

CLAIM SSM 601844

1cm = 5m
1:50



GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE N^o: M- 68

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

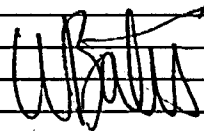
Property... MISHI OPTION Project No. 227 Depth... 22.25 Date Began... Oct 24/86
 Hole No. M-69 Co ord. L2900W Horizontal Length Date Completed Oct 27/86
 Claim No. SSM 601843 953N Core Size A_g Drilled By Morissette
 Grid No. M-1 Angle & Direction -50°S Elevation Logged By W. BATES

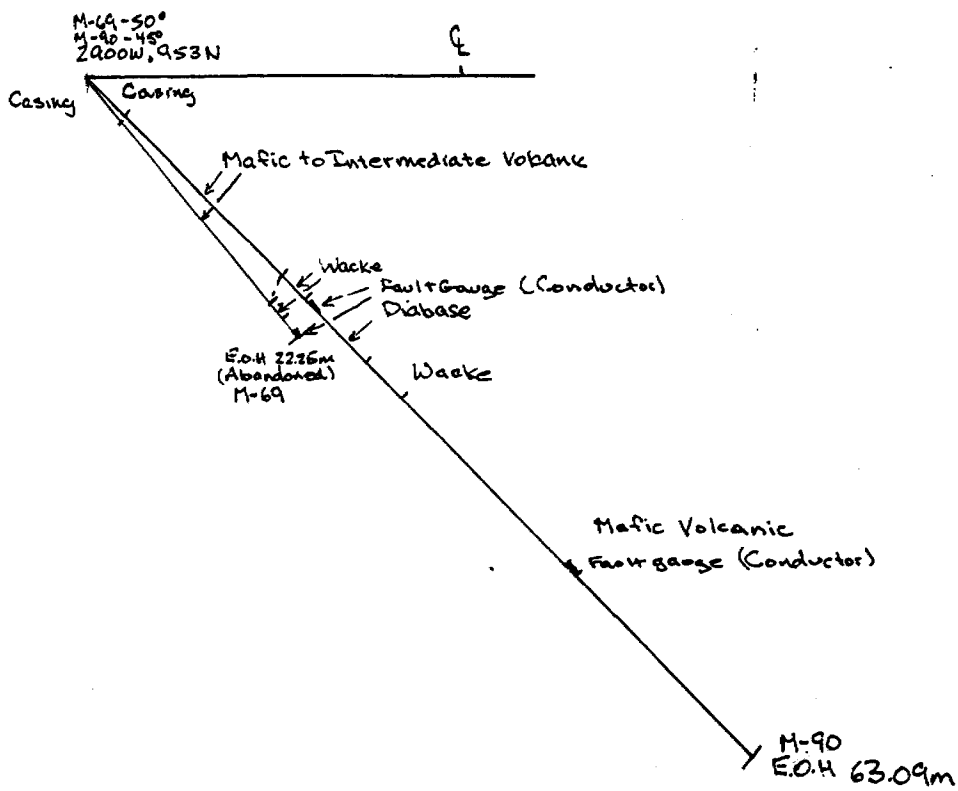
INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Aug/A	Agg/A	Cu.	Zn.
0 - 3.96	Casing	0	3.96	3.96	CASING				
3.96 - 19.65	Mafic to Intermediate Volcanic	3.96	6.09	2.13	WASTE				
	- Fine grained	6.09	6.70	.61	4501	.33	.5		
	- Lt green to dark green	6.70	7.62	.92	4502	.27	.5		
	6.55-6.70 → Qtz.-carb vein; 5% pyrite	7.62	8.53	.91	4503	.16	.5		
	11.27-17.0 → Carbonatized, scattered (<5%)	8.53	9.44	.91	4504	1.05	.5		
	1-3 cm Qtz-carbonate veinlets	9.44	10.36	.92	4505	.21	.5		
	tr. 2% pyrite	10.36	11.27	.91	4506	.12	.5		
		11.27	12.19	.92	4507	.77	.5		
		12.19	13.10	.91	4508	4.12	.5		
19.65 - 20.69	Bedded greywacke	13.10	14.02	.92	4509	1.10	.5		
	- Well bedded	14.02	14.93	.91	4510	.27	.5		
	- Lt grey to brown	14.93	15.84	.91	4511	.22	.5		
	- 3-5% pyrite; as stringers	15.84	16.76	.92	4512	2.26	.5		
	- Fine grained to 2mm clasts (20-30%)	16.76	17.67	.91	4513	.04	.5		
		17.67	22.25	4.57	WASTE				
20.69 - 22.00	Diabase								
	- 1-2mm grain size								
	- salt + pepper texture								
	- black amphiboles?, and white feldspars								
22.00 - 22.25	Fault gouge								
	- chloritic powder and broken diabase								
22.25 E.O.H	* Hole abandoned at 22.25 m, could not drill through fault gouge.								
	* Hole redrilled at -45° => M-90								

W. Bates

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property MISHI OPTION Project No. 227 Depth 63.09 Date Began Oct. 27/86
 Hole No. M-90 Co ord. L2900W Horizontal Length Date Completed Oct 27/86
 Claim No. SSM 601843 953 N Core Size Aq Drilled By Morissette
 Grid No. M-1 Angle & Direction -45°S Elevation Logged By W. BATES

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au _g /t	Ag _g /t	Cu.	Zn.
0-3.50	<u>Casing</u>	0	3.50	3.50	Casing				
		3.50	6.70	3.20	WASTE				
3.50-18.40	<u>Mafic to Intermediate Metavolcanic</u> - Fine grained - Light to dark green - slightly chloritic 8.22-12.80 → Scattered quartz-carbonate veins, tr. pyrite	6.70	7.62	.92	4514	.24	1.0		
		7.62	8.53	.91	4515	.09	.5		
		8.53	9.44	.91	4516	1.05	.5		
		9.44	10.36	.92	4517	.56	.5		
		10.36	11.27	.91	4518	.55	.5		
		11.27	12.19	.92	4519	1.99	.5		
		12.19	13.10	.91	4520	.22	.5		
18.40-20.42	<u>Bedded Wacke</u> - Lt. grey to brown - Well bedded - 3-5% pyrite	13.10	14.02	.92	4521	.54	.5		
		14.02	14.32	.30	4522	.18	.5		
		14.32	20.42	6.10	WASTE				
		20.42	21.33	.91	4523	.02	.5		
		21.33	22.25	.92	4524	.02	.5		
20.42-26.33	<u>Diabase</u> - Fine grained - salt & pepper texture 20.42-21.94 - Fault gouge - broken - chloritic * V.L.F. Conductor	22.25	23.16	.91	4525	.02	.5		
		23.16	23.46	.30	4526	.02	.5		
		23.46	28.04	4.58	WASTE				
		28.04	28.95	.91	4527	.28	.5		
		28.95	29.87	.92	4528	1.23	.5		
		29.87	30.48	.61	4529	.02	.5		
26.33-29.64	<u>Wacke</u> - as above 27.43-29.56 - Sericitic; scattered 1-3cm quartz veins trace pyrite	30.48	31.08	.60	4530	.03	.5		
		31.08	41.80	13.72	WASTE				
		41.80	45.72	.92	4531	.02	.5		
		45.72	46.63	.91	4532	1.86	1.0		
		46.63	47.54	.91	4533	.48	.5		
		47.54	48.46	.92	4534	1.02	.5		
29.64-63.09	<u>Mafic Volcanic</u> - as before 45.41-46.32 gauge zone 46.32-48.15 20% quartz veins, tr-2% pyrite; in contorted biotite-carbonate breccia.	48.46	49.37	.91	4535	.04	.5		
		49.37	50.29	.92	4536	.02	.5		
		50.29	51.20	.91	4537	.12	.5		
		51.20	51.81	.61	4538	1.21	.5		
		51.81	52.42	.61	4539	.06	.5		
63.09 m E.O.H		52.42	63.09	10.67	WASTE				
			E.O.H						
	<u>Core Angles</u> 19.80 m → 72° 56.08 m → 74°								
									



Granges Exploration

MISHI OPTION

D.D.H M-69, M-90

L2900 W, 953 N, -50°S M-69

" " " -45°S M-90

Grid M-1

CLAIM SSM 601843


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Project No. Depth Date Began

Hole No. **M-69** Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	g Au. ±	Ag.	Cu.	Zn.
	SLUDGE	0	5.78	5.78	4719	.02			
		5.78	8.22	3.04	20	1.72			
		8.22	11.27	3.05	21	1.48			
		11.27	14.32	↓	22	3.92			
		14.32	17.37	↓	23	1.05			
		17.37	20.42	3.05	4724	-.73			
		Hole abandoned							


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

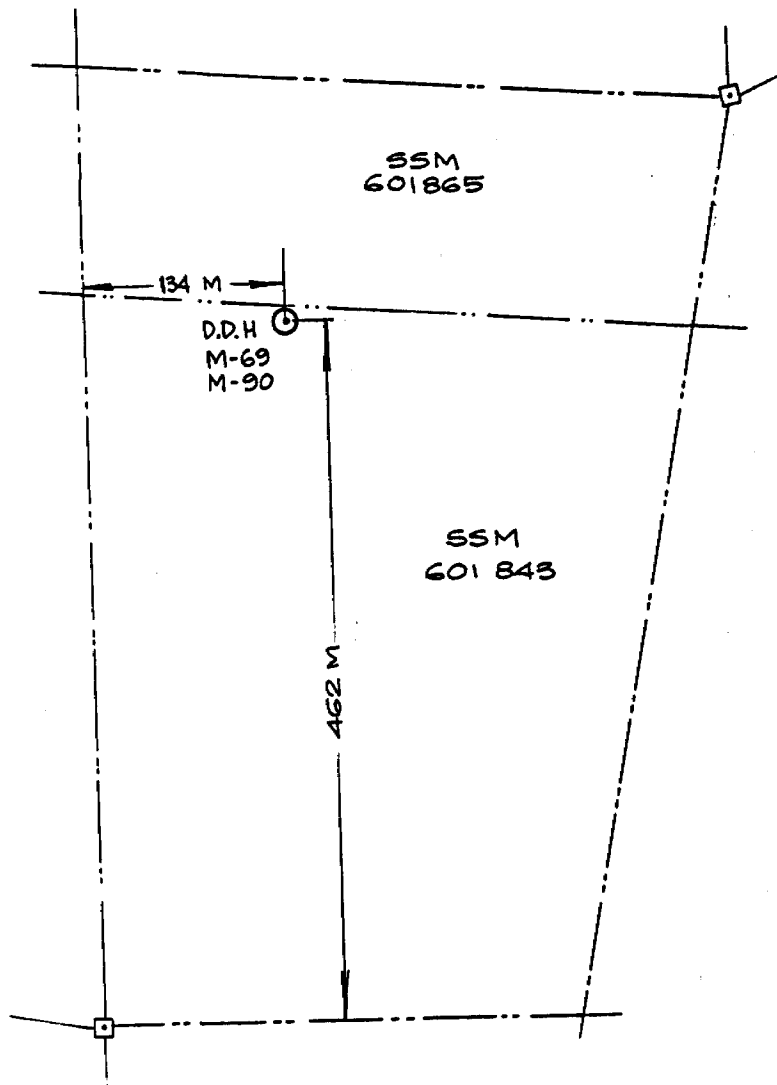
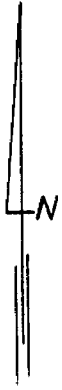
Property Project No. Depth Date Began

Hole No. M-90 Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	g Au. f	Ag.	Cu.	Zn.		
	SLUDGE	0	5.78	5.78	4729	.15					
		5.78	8.22	3.04	30	.44					
		8.22	11.27	3.05	31	2.32					
		11.27	14.32	↓	32	1.18					
		14.32	17.37	↓	33	.92					
		17.37	20.42	↓	34	.51					
		20.42	23.46	3.04	35	.21					
		23.46	26.51	3.05	36	.20					
		26.51	29.56	↓	37	.83					
		29.56	32.61	↓	38	.61					
		32.61	35.66	↓	39	.20					
		35.66	38.70	3.04	4740	.14					
		38.70	41.75	3.05	41	.24					
		41.75	44.80	↓	42	.42					
		44.80	47.85	↓	43	1.91					
		47.85	50.90	↓	44	1.16					
		50.90	53.94	3.04	45	.77					
		53.94	56.99	3.05	46	.69					
		56.99	60.04	↓	47	.31					
		60.04	63.09	3.05	4745	.26					
		E.O.H									



GRANGES EXPLORATION LTD.

MISHI PROJECT

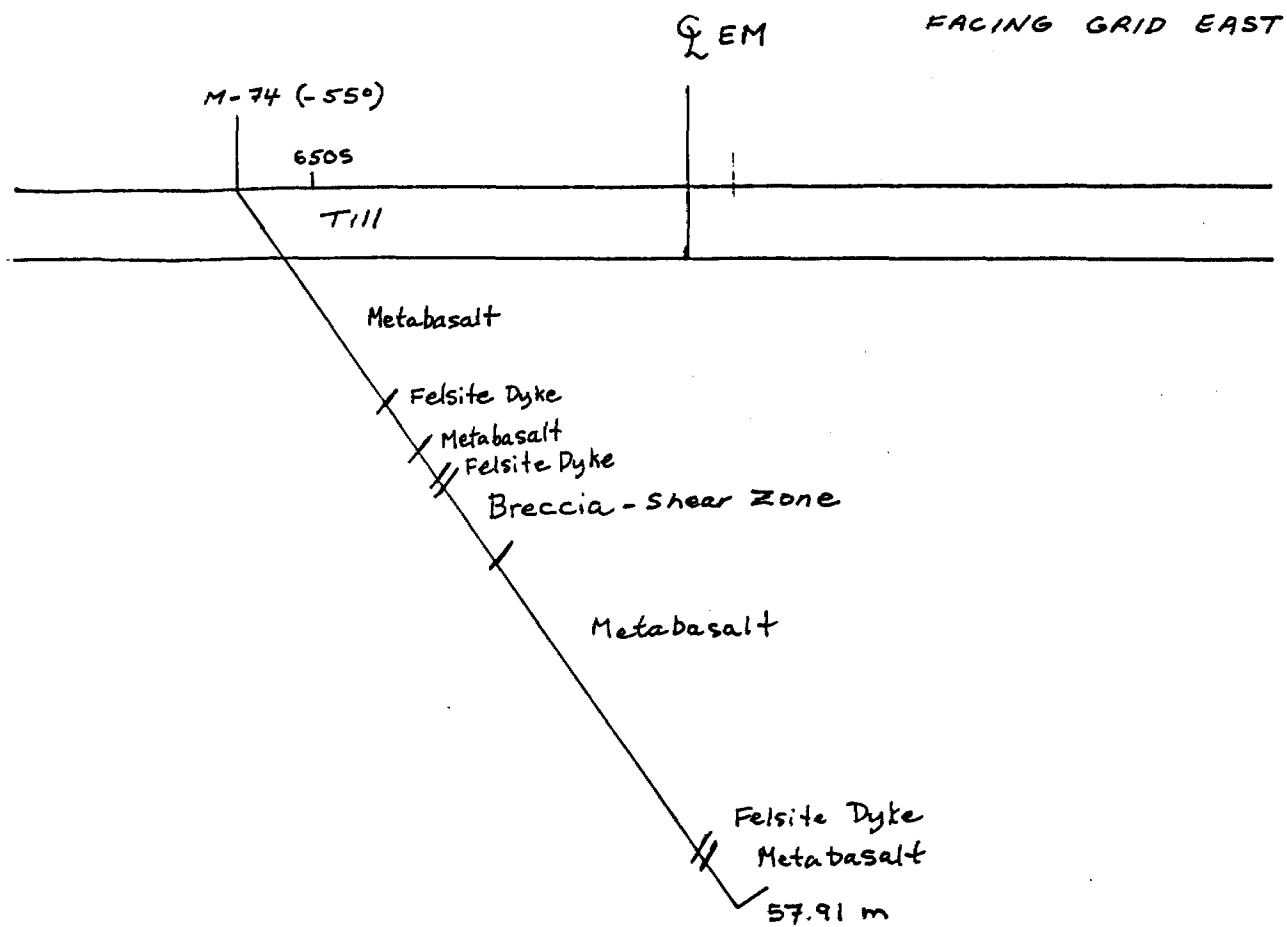
DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO: M-90 & M-69


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property MISHI. OPTION Project No. 227 Depth 57.91m (190') Date Began Oct. 18/1986
 Hole No. M-74 Co ord. 1300W Horizontal Length _____ Date Completed Oct. 19/1986
 Claim No. SSM 644616 645 S Core Size B.P Drilled By Morisse He
 Grid No. M-5 Angle & Direction -55° Elevation _____ Logged By G. Harde

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-5.49	CASING								
5.49-17.22	META BASALT Fine grain, green-brown	6.63	6.93	0.30	4001	.02	1.0		
	6.63-6.93 25% epidote-calcite.	17.22	17.83	0.61	4002	.02	.5		
	9.14-9.45 Broken core								
		23.77	24.38	0.61	4003	.02	.5		
17.22-21.18	FELSITE DYKE fine grain clay-red, fine	24.38	25.30	0.92	4	.02	.5		
	grain epidote at contact, possib. hematized porphyry	25.30	26.21	0.91	5	.02	.5		
		26.21	27.13	0.92	6	.02	1.0		
21.18-23.17	META BASALT	27.13	28.04	0.91	7	.02	.5		
		28.04	28.98	0.92	8	.02	.5		
23.17-23.93	FELSITE DYKE grad. contact, f. gr. pink,	28.96	29.57	0.61	9	.02	.5		
	some qtz at lower contact	29.57	30.48	0.91	10	.02	.5		
		30.48	31.09	0.61	11	.02	.5		
23.93-25.60	BRECCIA felsite fragments in black matrix,	48.01	48.92	0.91	12	.02	1.0		
	30% Broken core	48.92	49.84	0.92	13	.02	.5		
		49.84	50.75	0.91	14	.02	.5		
25.60-26.29	FELSITE DYKE	57.00	57.91	0.91	4015	.02	.5		
26.29-30.18	BRECCIA < 10% white qtz, 29.57-30.18 Broken core,								
	some green carbonate	5.18	8.23	3.05	6932	.02			
		8.23	11.28	3.05	6930	.02			
30.18-53.65	META BASALT	11.28	14.33	3.05	6931	.02			
	at 48.01 somewhat brecciated	14.33	17.37	3.04	6933	.02			
	52.43-53.65 Broken core	17.37	20.42	3.05	34	.04			
		20.42	23.47	3.05	35	.02			
53.65-54.25	FELSITE DYKE	23.47	26.52	3.05	36	.05			
	53.95-56.39 Broken core 70% core recovery	26.52	29.57	3.05	37	.06			
		29.57	32.61	3.04	38	.02			
54.25-57.91	META BASALT	32.61	35.66	3.05	39	.02			
	57.00-57.91 50% core recovery	35.66	38.71	3.05	40	.04			
		38.71	41.76	3.05	41	.04			
		41.76	44.81	3.05	42	.02			
		44.81	47.85	3.04	43	.02			
		47.85	50.90	3.05	44	.02			
		50.90	53.95	3.05	45	.08			
		53.95	57.00	3.05	6946	.02			
57.91	END OF HOLE								
	Blank Header Oct 21/86								

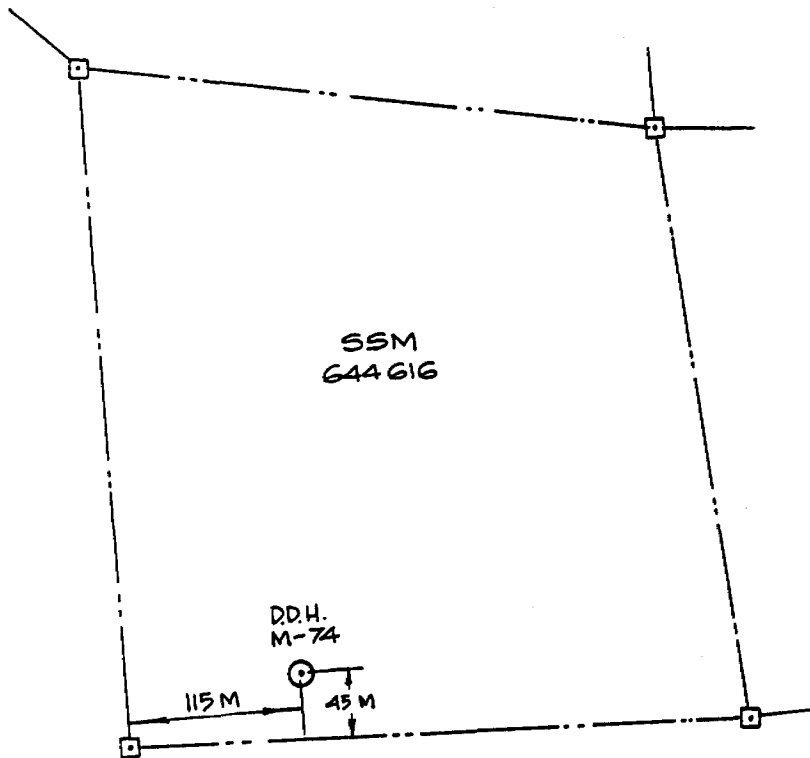
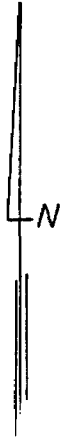


Hole M-74
 MISHI OPTION
 1300 W, 645 S
 GRID M-5
 CLAIM NO. - SSM 644616

Scale 1:500

Logged by : G. Harder, Oct. 86

GRANGES EXPLORATION LTD.



GRANGES EXPLORATION LTD.

MISHI PROJECT

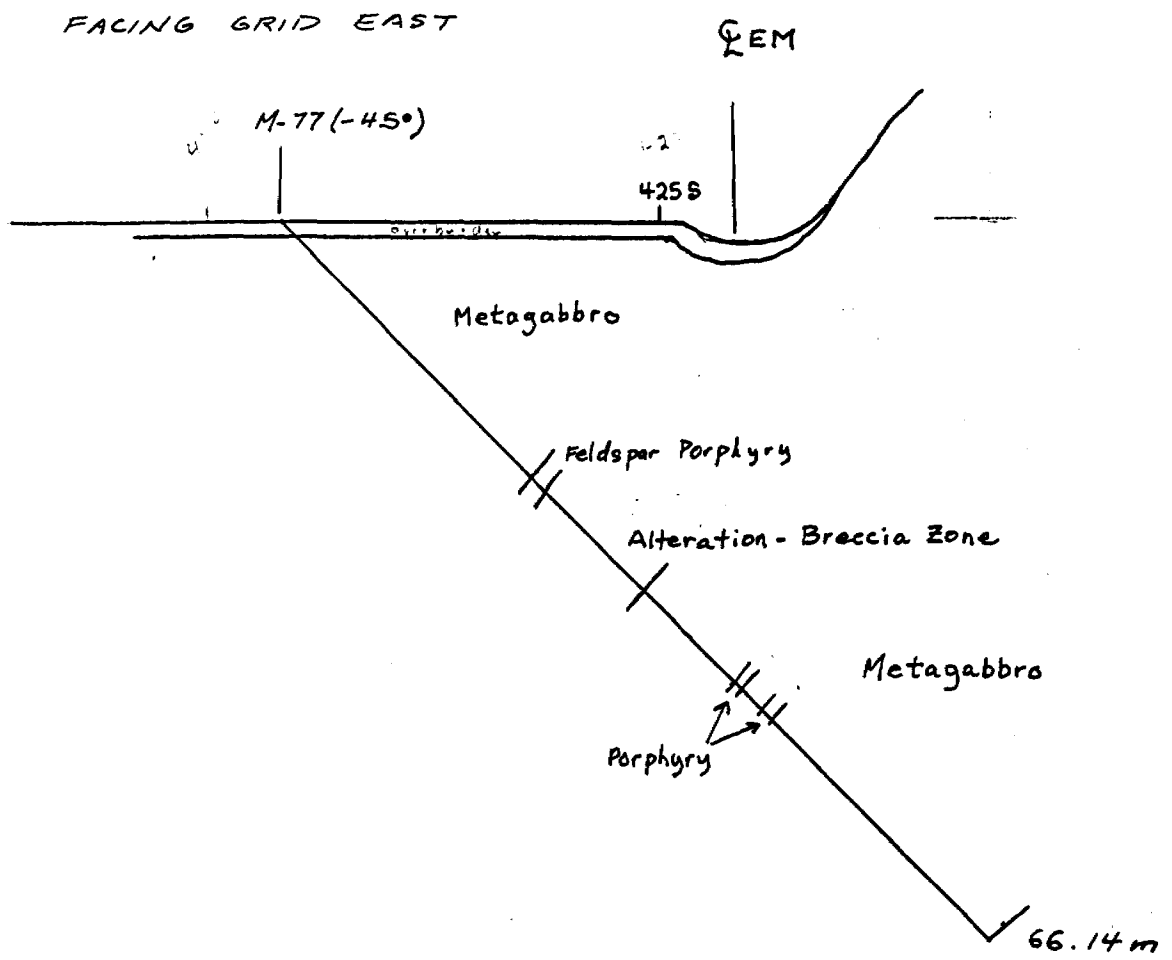
DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO M-74


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property MISHI OPTION Project No. 227 Depth 66.14m (217') Date Began Oct 23/86
 Hole No. M-77 Co ord. 1300 W Horizontal Length _____ Date Completed Oct 24/86
 Claim No. SSM 644604 445N Core Size B.O. Drilled By Marisette
 Grid No. M-5 Angle & Direction -45° G.S. Elevation _____ Logged By G. Harder

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-1.22	CASING								
1.22-23.62	METAGABBRO chloritic, schistose 75° TCA, fairly uniform loc. calcitic bands	24.69	25.60	0.91	4164	Tr			
		25.60	26.52	0.92	65	Tr			
		26.52	27.43	0.91	66	Tr			
		27.43	28.35	0.92	67	Tr			
23.62-24.90	FELDSPAR PORPHYRY pink, subhedral felds. in grey matrix, barren	28.35	29.26	0.91	68	Tr			
		29.26	29.87	0.61	69	Tr			
		29.87	30.79	0.92	70	Tr			
24.90-34.14	ALTERATION - BRECCIA ZONE many calcitic veinlets, epidotization, rest chlorite, some clay gouge 24.99-29.87 80% broken core	30.79	31.70	0.91	71	Tr			
		31.70	32.61	0.91	72	.07			
		32.61	33.53	0.91	73	Tr			
		33.53	34.14	0.61	74	Tr			
34.14-42.67	METAGABBRO some epidotization	53.49	53.80	0.31	75	Tr			
		58.22	59.13	0.91	4176	Tr			
		54	40	6					
42.67-43.59	FELDSPAR PORPHYRY sim. to 23.62-24.90	5.18	8.23	3.05	4807	.02			
		8.23	11.28	3.05	8	.02			
43.59-45.26	METAGABBRO	11.28	14.33	3.05	9	.05			
		14.33	17.37	3.04	10	.02			
45.26-46.02	FELDSPAR PORPHYRY	17.37	20.42	3.05	11	.02			
		20.42	23.47	3.05	12	.02			
46.02-66.14	METAGABBRO foliated 80° TCA	23.47	26.52	3.05	13	.02			
	52.12-59.44 somewhat epidotized	26.52	29.57	3.05	14	.02			
	53.49-53.80 brown sheared f.gr., qtz rich, epidote porphyry	29.57	32.61	3.04	15	.02			
	58.22-58.83 porphyry f.gr. brown, qtz rich, sheared, mar. pg.	32.61	35.66	3.05	16	.02			
		35.66	38.71	3.05	17	.02			
		38.71	41.76	3.05	18	.02			
		41.76	44.81	3.05	19	.02			
66.14	END OF HOLE	44.81	47.85	3.04	20	.02			
		47.85	50.90	3.05	21	.04			
		50.90	53.95	3.05	22	.02			
	Glimm Harder Oct 26/86	53.95	57.00	3.05	23	.03			
		57.00	60.05	3.05	24	.02			
		60.05	63.09	3.04	25	.05			
		63.09	66.14	3.05	4826	.02			

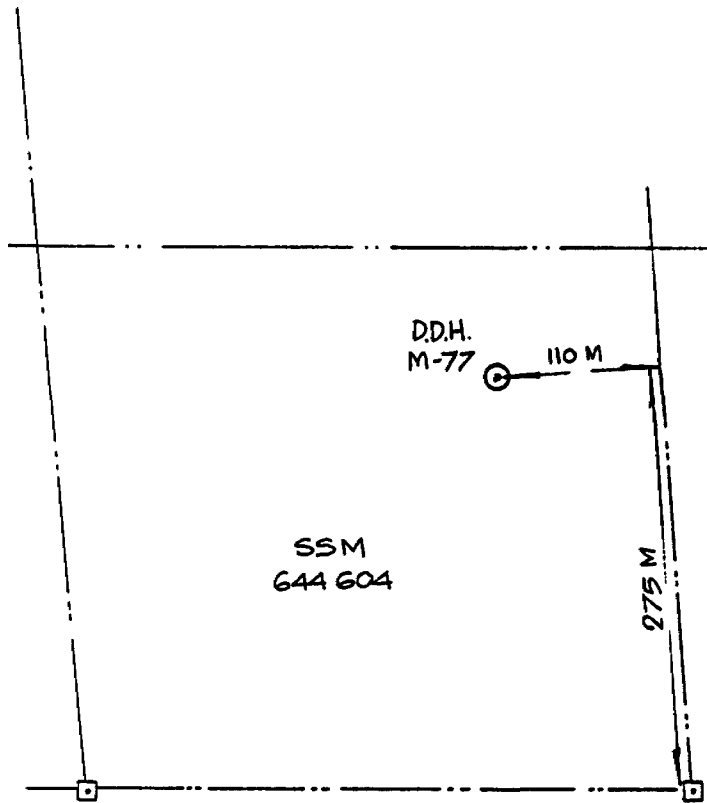
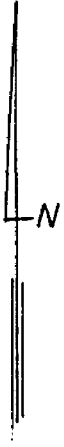


Hole M-77
 MISHI OPTION
 1300 W, 445 N
 GRID M-5
 CLAIM NO. SSM 644604

Scale 1:500

logged by: G. Harder

GRANGES EXPLORATION LTD.

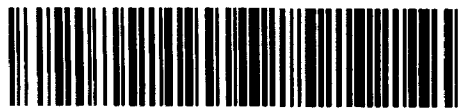


GRANGES EXPLORATION LTD.

MISHI PROJECT

DIAMOND DRILL HOLE LOCATION PLAN
SCALE 1:5000

HOLE NO M-77



42C03SW0082 22 MISHIBISHU LAKE

900

Name and Postal Address of Recorded Holder

MAGMILLAN ENERGY CORP LTD

SUITE 810 - 625 HOWE ST, VANCOUVER, B.C. V6C 2T6

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
70731	SSM	601631	40	SSM	601639	40	SSM	601647	40		
		601632	40		601640	40		601648	40		
		601633*	56		601641	40		601649	40		
		601634	40		601642	40		601650	40		
		601635	40		601643	40		601658	40		
		601636	40		601644	40		601659	40		
		601637	40		601645	40		601660	40		
		601638	40		601646	40		601661	40		

for Performance of the following work. (Check one only)

- Manual Work
- Shaft Sinking Drifting or other Lateral Work.
- Compressed Air, other Power driven or mechanical equip.
- Power Stripping
- Diamond or other Core drilling
- Land Survey

All the work was performed on Mining Claim(s): PLEASE SEE ATTACHED LIST MISHIBISHU LAKE: ST. GERMAIN G.2291

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

ABBIE LAKE - M-8

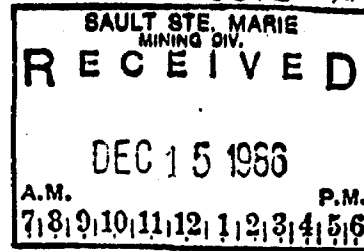
DRILLING WAS CARRIED OUT BY:

N. MORISSETTE CANADA INC

BOX 489

HAILEYBURY, ONTARIO

POB 1K0



DURING THE PERIOD OF OCTOBER 1st 1986 TO NOVEMBER 9th 1986

* mailed Dec. 14/86

Date of Report: Dec 4th 1986
Recorded Holder or Agent (Signature): *George W. Zbitnoff*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

GEORGE W. ZBITNOFF

900 - 625 HOWE ST, VANCOUVER, B.C. V6C 2T6

Date Certified: Dec 4th 1986

Certified by (Signature): *George W. Zbitnoff*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

file on SSM 601609



Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601662	40	SSM	601670	40	SSM	601681	40
		601663	40		601671	40		601682	40
		601664	40		601672	40		601683	40
		601665	40		601673	40		601684	40
		601666	40		601677	40		601685	40
		601667	40		601678	40		601687	40
		601668	40		601679	40		601688	40
		601669	40		601680	40		601689	40

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601690	40	SSM	601698	40	SSM	601709	40
		601691	40		601699	40		601710	40
		601692	40		601700	40		601711	40
		601693	40		601701	40		601712	40
		601694	40		601702	40		601713	40
		601695	40		601703	40		601714	40
		601696	40		601707	40		601715	40
		601697	40		601708	40		601716	40

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
---	---

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601717	40	SSM	601731	40	SSM	601739	40
		601718	40		601732	40		601740	40
		601719	40		601733	40		601741	40
		601720	40		601734	40		601742	40
		601721	40		601735	40		601750	40
		601728	40		601736	40		601751	40
		601729	40		601737	40		601752	40
		601730	40		601738	40		601753	40

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Mining Act

Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601754	40	SSM	601771	80	SSM	601780	40		
		601755	40		601772	80		601781	40		
		601756	40		601773	80		601782	40		
		601757	40		601774	80		601791	40		
		601758	40		601776	80		601792	40		
		601759	40		601777	73		601793	40		
		601760	40		601778	62		601794	33		
		601761	54		601779	62		601795	33		
					601775	40					
						62					

All the work was performed on Mining Claim(s): **3A** **601775** **40** **62**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Mining Act

Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601796	33	SSM	601814	40	SSM	601822	22		
		601797	33		601815	33		601823	22		
		601798	22		601816	1		601824	22		
		601799	22		601817	1		601837	40		
		601800	22		601818	1		601838	40		
		601801	22		601819	1		601839	0		
		601802	22		601820	0		601840	1		
		601813	40		601821	22		601841	1		

All the work was performed on Mining Claim(s): **216** **94** **11**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Mining Act

Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601842	1	SSM	601860	40	SSM	601868	33		
		601843	1		601861	33		601869	33		
		601844	1		601862	33		601870	33		
		601845	40		601863	33		601880	40		
		601846	33		601864	33		601881	40		
		601847	33		601865	33		601882	33		
		601848	40		601866	33		601883	0		
		601859	40		601867	33		601884	0		

All the work was performed on Mining Claim(s): **159** **211** **212**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)



Name and Postal Address of Recorded Holder MACMILLAN ENERGY CORP. LTD	Prospector's Licence No. T 1706
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Mining Claim			Mining Claim			
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	
Work Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	601885	33	SSM	601899	40	SSM	601827	40	
		601886	24		601900	31		644672	40	
		601887	0		629238	0		722575	40	
		601888	31		629239	24		722576	40	
		601889	31		629242	0		722577	40	
		601890	40		629243	40		722578	40	
		601891	40		629245	31		722579	40	
		601898	40		601825	40		722589	40	
								722590	40	
All the work was performed on Mining Claim(s):			239				200			

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

BREAKDOWN OF DRILLING

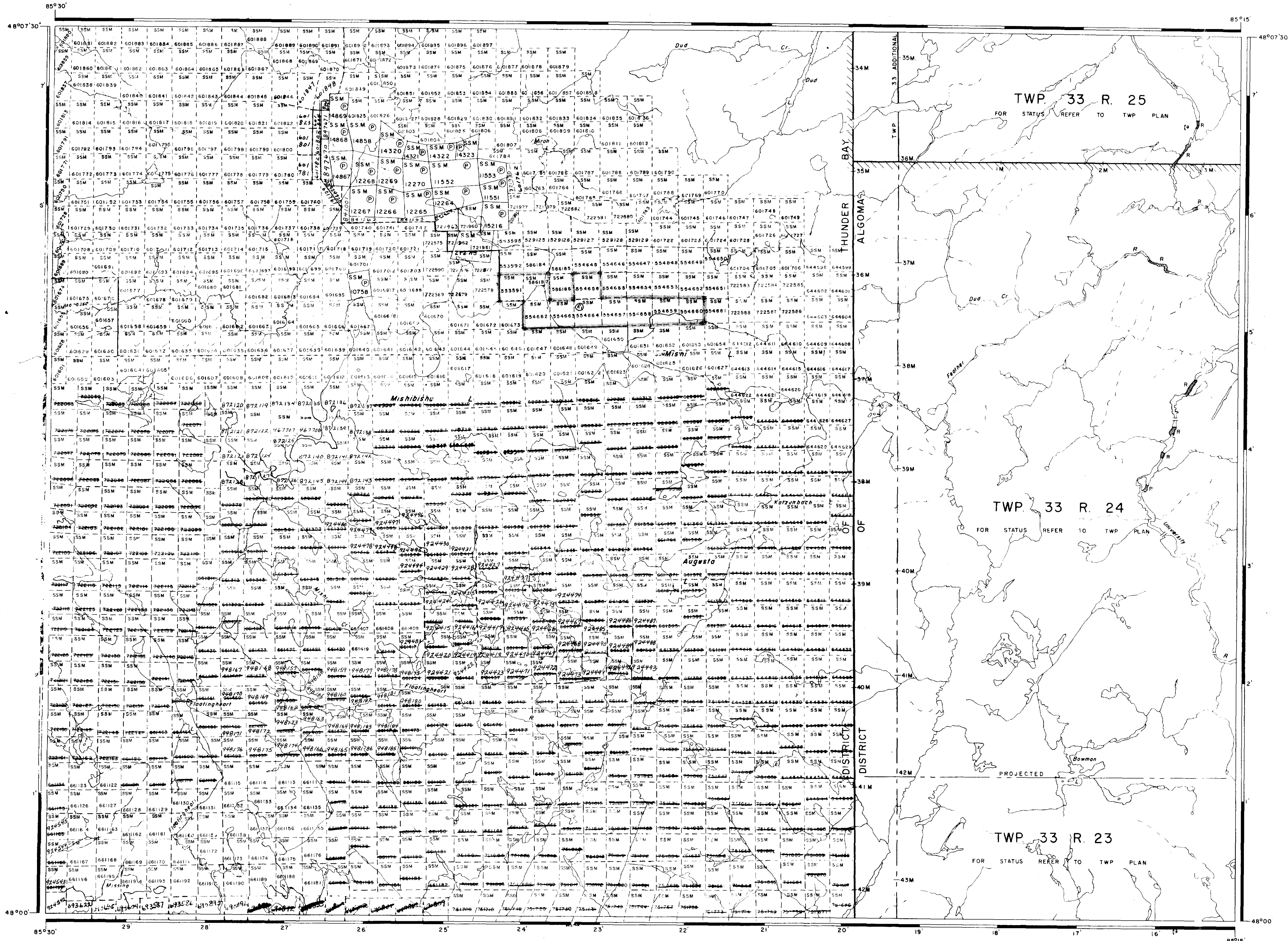
SSM 601820	M-94	66.14M ✓
SSM 601844	M-68	56.99M ✓
SSM 601843	M-69/M-90	63.09M ✓
SSM 629242	M-91	63.09M ✓
SSM 629238	M-92	63.09M ✓
SSM 601899	M-93	63.09M ✓
SSM 601742	M-57	124.05M ✓
SSM 601701	M-58	60.05M ✓
SSM 601662	M-62	63.09M ✓
	M-63	136.24M ✓
SSM 601681	M-64	60.04M ✓
	M-65	63.09M ✓
SSM 601657	M-66	60.06M ✓
SSM 601659	M-67	61.87M ✓
SSM 601664	M-59	63.09M ✓
SSM 601609	M-60	63.09M ✓
	M-61	60.04M ✓
SSM 644659	M-72	63.09M ✓
SSM 644658	M-73	50.90M ✓
SSM 644616	M-74	57.91M ✓
SSM 644665	M-75	66.14M ✓
	M-76	124.05M ✓
SSM 644604	M-77	66.14M ✓
SSM 644673	M-78	78.33M ✓
SSM 644675	M-79	96.01M ✓
SSM 644680	M-100	76.20M ✓
SSM 661003	M-101	84.43M ✓
SSM 644678	M-102	202.39M ✓
TOTAL	2155.79M (7072.8 ft.) or 7073 days ✓	

BREAKDOWN OF DRILLING

SSM 601820	M-94	66.14M ✓
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SSM 601701	M-58	60.05M ✓
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SSM 601681	M-64	60.04M ✓
	M-65	63.09M ✓
SSM 601657	M-66	60.06M ✓
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SSM 644678	M-102	202.39M ✓
TOTAL		. 2155.79M (7072.8 ft.) or 7073 days ✓

T-M

M-J



AREA OF
MISHIBISHU LAKE

DISTRICT OF
THUNDER BAY - ALGOWA

SAULT STE. MARIE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓢ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKES
- MINES

NOTES

400 Surface Rights Reservations on
rivers.

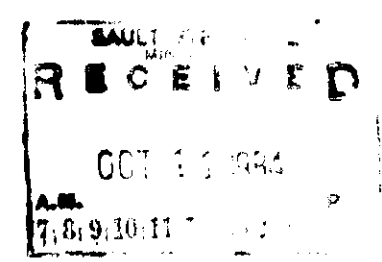
For status of Twp 33 R. 25
A.C. & H.B. Ry. Sault Ste. Marie

Areas withdrawn from staking under Section
36 of the Mining Act (R.S.O. 1980)
Order No. File Date Disposition
W-50/86 21/5/86 M.B.S.

Claims worked

claims worked filed on

contiguous claims



NATIONAL TOPOGRAPHIC SERIES 42 C3
PLAN NO. M-7
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPS BRANCH

MISHIBISHU LAKE

MISHIBISHU LAKE

