

36 35A

Shafts No. 1, 2, 3, 4, 5, 6, 8, 9, 10

RV-N1 Prospect Well

N1-Line 1

N3-Line 1

PP 11 N

C-19

AC 20

RPI-60

CB

Holes 1, 2, 3, 2A-Line 2

1+225 W

Y1, Y2, Y3

17+20 W

X1, X2, X3

17+20 E

} Surface Value  
check

Line E

E4 N, E5, E6 N, E7, E8, E15, E16

Line G

G11, G13, G15, G17, G19

Willow Cr Line 102

X Finegravel. 49 ground lighter

# NATOMAS COMPANY FIELD LOG

Hole started 12:20 P.M. Page 1 H.E. 4.

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE Cu Ln	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
12	50	2		2		1	8	300				Tr	L. CG. S. Cl.	0
1	15	3		3	2		9	550				Tr	LEG. S. Cl.	10
1	35	4		4			10	400				Tr	M. Cl. S. Md. g.	10
1	50	5		5			11	450				Tr	M. Cl. S. Md. g.	10
2	5	6		6			10	400				Tr	M. Cl. S. Md. g.	10
2	45	7		7	1	1	1	550				Tr	M. Cl. S. Md. g.	10
3	00	8		8	1	1		500	5	1			S. Sm. Cl. Fg.	X 10
3	15	9		9		1		450	10	2			S. Cl. Fg.	10
3	30	10		10	1		9	450	5	1			S. Sm. Cl. Fg.	10
3	45	11		11	1		8	400	6	1			S. Cl. Fg.	10
4	00	12		12		1		550	14	5			S. Cl. Fg.	10
4	35	13		13			7	300	3				S. Cl. Fg.	10
		14					9							10
Above 14' sample not pumped. Factory Leaving day shift														
7:30 Am	14	14		14			9	350	1				S. Cl. Fg.	10
7	50	15		15	1	2		400	4	1			S. Cl. Fg.	10
8	10	16		16	1			500	1				S. Cl. Fg.	10
8	30	17		17	1	1	3	550	6	1			S. Cl. Fg.	10
8	45	18		18	1	2		450	2				S. Cl. Fg.	10
9	00	19		19	1			400	1				S. Cl. Fg.	10
9	40	20		20	1			400	2				S. Cl. Fg.	10
9	50	21		21		1		450				Tr	S. Cl. Fg.	10
10	5	22		22	1	2		350	1	9	2		M. Cl. S. Fg.	10
10	20	23		23	1	2		300	10	1			S. Cl. Fg.	10
10	30	24		24	1	1		300	26	3			S. Cl. Fg.	10
10	45	25		25		1		300	15	2			S. Cl. Fg.	10
11	20	26		26	1	3		400	17	2			S. Cl. Fg.	10
11	45	27		27		10		350				Tr	S. Cl. Fg.	10
12 noon	28	28		28	1			400	0	0			M. S. Cl. Fg.	10
												All clay very soluble.		

DEPTH		VOLUME		TIME LOG
Soil	Calculated	Moving		
Gravel	Measured	Drilling	72:20	
Bedrock	Core	Pulling	23:30	
Water Level		Delays	22:00	
		CREW		
	Driller M.H. Bertolina	Total	117.50 hrs.	
Est. Wt. Gold	rb	Panner H. McCrory		
Wt. Gold	rk	Mgs.	Constant Used	
CALCULATED DEPTH 0.47		Ft.	Value Per Cu. Yd. 85	
Date		1-23-40 - 12:20 P.M.		
Location		Copper Canyon		
		Hole No. E. 4. IV.		

# NATOMAS COMPANY FIELD LOG

*X. Loose Formation*

# 2

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
12	20	29		29		11	400				Tr	ms. cl. Fg X	10	
12	40	30		30		1	450		0	0		ms. cl. Fg. X	10	
12	55	31		31		1	400				Tr	MS. Smcl. Fg X	10	
1	30	32		32		1	3	400	8	1		S. Fg. Smcl.	10	
1	45	33		33		1		350			Tr	S. Fg. Smcl	10	
2	00	34		34		11		350	0	0		S. Fg. Smcl.	10	
2	30	34	9	34	10	7		300			Tr	S. F. G. Smcl. (Boulder)	10	
2	50	36		36		1	6	550			Tr	Fbr. Smcl.	12	
3	25	37		37		1	3	450	5	1		S. F.G. Smcl.	10	
3	50	38		38		1	0	350	3	tr		S. F.G. cl	10	
4	05	39		39	11	1	2	350	3	tr		S. F.G. cl	10	
4	15	40		40	0	1	1	350	8	1		S. F.G. cl	10	
4	25	41		41		1	1	350	9	1		S. F.G. cl	10	
4	40	42		42	11	1	0	300			Tr	S. F.G. cl.	10	
- Blanket -														
7	45	43		43	11	1	2	350	3	tr		F. G. + cl.	10	
8	15	44		44	11	1	3	300	6	1		S. F.G. + cl	10	
8	30	45		45		1	4	450	11	1		S. F.G. cl	10	
8	45	46		46	11	1	2	300	1	tr		S. F.G. cl	10	
3	45	47		47	11		11	250			tr	S. cl. F.G.	10	
4	30	48		48	11	1	0	300			-	S. cl. F.G.	10	
4	45	49		49		1	0	350			-	S. cl. F.G.	10	
Blanket.														
7	00	50		50	11	1	0	300			-	cl. S. F.G.	10	
7	35	51		51		1	1	400			-	cl. S. F.G.	10	
7	40	52		52		1	0	400			-	cl. S. F.G.	10	
8	05	53		53		1	1	400			-	cl. S. F.G.	10	
8	35	54		54		1	0	300			-	cl. S. F.G.	10	
8	55	55		55	1	1	1	300			-	cl. S. F.G.	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling 72:20
Bedrock	Core	Pulling 23:30
Water Level	CREW	Delays 22:00
	Driller <i>M. H. Bertolina</i>	Total 117:50 hrs
Est. Wt. Gold <sup>8</sup>	Panner <i>H. McCroxy</i>	<sup>1/35</sup> Barry / Brown
Wt. Gold <sup>12</sup>	Mgs.	Constant Used
CALCULATED DEPTH <i>42.77</i>	Ft.	Value Per Cu. Yd. <sup>28</sup>
Date	<i>1-23-40</i>	<i>12:20 PM</i>
Location <i>Copper Canyon</i>	Hole No. <i>E. 4. IV.</i>	

# DELAYS

DATE	FROM	TO	TIME LOST	CAUSE
1/25	9.05	3.30	6.25	Welding broken jack. Changing bits, changing drill rope, tightening bearings

## GENERAL REMARKS

GENERAL REMARKS

# NATOMAS COMPANY FIELD LOG

# 3

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9	20	57		57		1	1	350					Cl. S. F. Gr	10
9	40	58		58		1	0	400					Cl. S. F. Gr	10
10	10	59		59	1	1	0	350					Cl. S. F. Gr	10
10	25	60		60		1	1	400					Cl. S. F. Gr	10
10	35	61		61		1	1	450	10	1			Cl. S. F. Gr	10
11	00	62		62		1	1	450	17	2			Cl. S. F. Gr	10
11	20	63		63		1	0	350		tr			Cl. S. F. Gr	10
11	40	64		64		1	0	350		tr			Cl. S. F. Gr	10
12	15	65		65	1	1	1	350	25	3			S. F. Gr. Sm Cl.	10
12	30	66		65	11	1	0	400		tr			S. F. Gr. Sm Cl	10
12	45	67		67		1	3	350					Cl. S. F. Gr	10
1	00	68		67	11	1	2	250		tr			Sm. F. Gr.	10
1	15	69		68	11	1	2	200					Cl. Sm Gr.	10
1	55	70		70	1		10	250	3	tr			S. F. Gr. Sm. Cl	10
2	15	71		71	0	1	0	300		tr			S. F. Gr. Sm Cl	10
2	30	72		72		1	2	450					S. F. G. Sm Cl.	10
2	45	73		73		1	0	400	2	tr			S. F. Gr. Sm Cl	10
2	50	74		74	1	1	2	500					S. F. Gr. Sm Cl.	10
3	30	75		75	1		10	300					S. F. Gr. Sm Cl	10
4	15	76		76	2		8	350		tr			S. F. Gr.	10
4	35	77		77	2	1	1	350					S. F. Gr. Sm Cl	10
Blanket														
7	35	78		78		1	2	250	10	1			S. F. Gr.	10
7	55	79		79	1	1	4	350	14	2			S. F. Gr. Cl.	10
8	15	80		80		1	1	400	28	5			S. F. Gr. Sm Cl	10
8	40	81		81		1	0	300	50	8			S. F. Gr.	10
9	05	82		82		1	1	300	30	5			S. F. Gr.	10
9	25	83		83		1	1	350	200	15			S. F. Gr.	10
9	40	84		84		1	2	400	100	9			S. F. Gr. Cl	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling 72:20 hrs.
Bedrock	Core	Pulling 23:30 "
Water Level	CREW	Delays 22:00
	Driller M.H. Bordelina	Total 117:50 hrs.
Est. Wt. Gold 67	Panner Barry Pearson	
Wt. Gold 65	Mgs.	Constant Used
CALCULATED DEPTH 11-103	Ft.	Value Per Cu. Yd. 70 <sup>5</sup>
Date	1-23-40	12:20 pm
Location	Copper Canyon	Hole No. E4N



# NATOMAS COMPANY FIELD LOG

#4

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
10	00	85		85	0	1	0	400			40	7	S. F.G. cl	10
10	35	86		85	11	1	1	350			7	7	S. F.G. cl	10
11	00	87		86	11	1	2	350			12	2	S. F.G. cl	10
11	15	88		88		1	2	350			12	1	S. F.G. cl	10
11	30	89		89		1	2	400			tr		S. F.G. cl	10
12	0	90		90			11	350			tr		S. F.G. cl	10
1	00	91		91		1	2	300			tr		S. F.G. cl	10
1	15	92		92		1	1	350	20	2			S. F.G. cl	10
1	35	93		98		1	0	250	10	1			S. F.G. cl	10
2	10	94		94			11	350	5	tr			S. F.G. cl	10
2	25	95		95		1	0	300	10	2			S. F.G.	10
2	40	96		96			9	300	6	1			S. F.G.	10
2	55	97		97			9	350	-	-			S. F.G. cl	10
3	10	98		98			11	350	8	1			S. F.G. cl	10
3	25	99		99		1	02	350	-	tr			S. F.G. cl	10
3	45	100		100			10	350	10	1			S. F.G. cl	10
4	00	101		101			10	250	15	1			S. F.G. cl	10
4	20	102		102			11	350	20	2			S. F.G. cl	10
4	30	103		102	11	1	1	350	-	-			S. F.G. cl	10
1-28	40	104					1	0					Jan. 28-1990	
7	20			Blanket							tr		S. cl	
7	35	104		104		1	0	300	2				cl. F.G. S.	10
7	50	105		105		1		300	3				cl. F.G. S.	10
8	20	106		106		1		9 350	4				SM. cl. F.G. S.	10
8	50	107		107		1		8 350	5				SM. cl. F.G. S.	10
9	10	108		108		1		10 350	10	1			Md. cl. F.G. S.	10
9	35	109		109		1		8 400	1	22	3		Md. cl. C.G. S.M.S.	12
10		110		110		1		8 400	16	1			Md. cl. C.G. S.	10
10	25	111		111		1		450	18	1			Md. cl. C.G. S.	10
10	50	112		112			8	350	9				Md. cl. C.G. S.	10

DEPTH		VOLUME		TIME LOG
Soil	Calculated	Moving		
Gravel	Measured	Drilling		72:20 hrs
Bedrock	Core	Pulling		23.30 "
Water Level		Delays		22:00
		Total		117.50 hrs
CREW				
Driller	M.H. Rodaluna	Panner		Barry Heown
Est. Wt. Gold		Mgs.		Constant Used
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.	
Date		1-23-40 - 12:20 pm		
Location		Copper Canyon		Hole No. E4, H

# NATOMAS COMPANY FIELD LOG

#5.

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
		Hrs	Min	Ft	In			Ft	In	Ft			
11	10	113		113		1	450			12		M. CL. S. C.G.	10
11	40	114		114		1	450			9		M. CL. S. G.	10
12	05	115		115		1	400			19	1	M. CL. FS. G.	10
12	35	116		116	1		7450			4		Boulder. sm. CL.	10
1	-	117		117		1	2450			6		M. CL. S. G.	10
1	20	118		118		1	2450			4		V. M. CL. S. G.	10
1	35	119		119			11350			7		V. M. CL. FS. G.	10
1	50	120		120			11350			15	1	V. M. CL. FS. G.	10
2	05	121		121			11350			12	1	V. M. CL. S. C.G.	10
2	25	122		122		1	400		1	15	2	V. M. CL. S. G.	10
2	45	123		123	1	1	450			8		V. M. CL. S. C.G.	10
3	-	124		124	1		9400			4		V. M. CL. S. C.G.	10
3	30	125		125			11250			20	1	Md CL. S. G.	10
3	58	126		126	1		8300			12		Md CL. S. G.	10
4	15	127		127	1		7300			10		Md CL. S. C.G.	10
4	35	128		128	1		11400			12		Md CL. S. C.G.	10
7-10		Blk		ket						0	0		129-40
8	00	129	-	-	-	-	10350			10	tr	S. C.G. M. CL.	10
8	30	136	-	129	11	-	11350			4	tr	S. Md. G. M. CL.	10
9	00	131	-	-	-	-	9400			25	1	" " " "	10
9	30	132	-	131	11	-	8400			1	tr	S. C. G. Sm. CL.	10
10	00	133	-	132	10	-	9300			2	tr	S. C. G. CL.	10
10	30	134	-	-	-	-	9350			1	tr	S. C. G. M. CL.	10
10	55	135	-	134	10	-	10250			2	tr	S. C. G. M. CL.	10
11	20	136	-	135	11	-	8350			1	tr	S. C. G. M. CL.	10
11	45	137	-	-	-	-	8400			0	0	S. C. G. M. CL.	10
12	20	138	-	137	11	-	8350			1	tr	S. C. G. M. CL.	10
12	50	139	-	138	11	-	11350			8	tr	S. C. G. M. CL.	10
1	10	140	-	139	11	1	350			12	1	S. Md. G. M. CL.	10
1	40	141	-	140	11	-	10400			8	tr	" " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	72:20 hrs.		
Bedrock	Core	Pulling	23:30 "		
Water Level		Delays	22:00 "		
		Total	117:50 hrs.		
CREW					
Driller	Lynch				
Panner	Ploense				
Est. Wt. Gold	17				
Wt. Gold	75	Mgs.	Constant Used		
CALCULATED DEPTH		103-128	Ft.	Value Per Cu. Yd. 246	
Date	1-23-40 - 1220 PM				
Location	Copper Canyon			Hole No. E-4-N	



# DELAYS

	FROM	TO	TIME LOST	CAUSE
1/27	12 20	12 35	15	String Cable, Sand Pump
	1 35	1 40	15	Changing Bits

## GENERAL REMARKS

Blank area for general remarks.

# DELAYS

FROM	TO	TIME LOST	CAUSE
7:10	7:30	20	Changing bits, 5 1/2"

## GENERAL REMARKS

Blank lined area for general remarks.

# NATOMAS COMPANY FIELD LOG

# 6.

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	1			
2	00	142	-	-	-	9	350		12	1	S. Md. G. M. Yellow Cl.	10		
2	20	143	-	142	11	8	350		9	tr	S. Md. G. M. Cl.	10		
2	50	144	-	143	11	9	350		6	tr	" " " " "	10		
3	10	145	-	144	10	10	300		6	tr	" " " " "	10		
3	30	146	-	145	11	11	350		7	tr	" " " " "	10		
3	50	147	-	-	-	9	350		1	tr	" " " " "	10		
4	10	148	-	-	-	11	350		2	tr	S. C. G. M. Cl.	10		
4	40	149	-	148	10	11	400		1	tr	S. Md. G. M. Cl.	10		
7	05	Blanket in hole							0	0			1-30-40	
7	30	150	-	-	-	10	350		2	tr	S. Md. G. Cl.	10		
8	00	151	-	151	1	10	350		3	tr	" " " " "	10		
8	20	152	-	152	1	1	400		2	tr	S. Md. G. M. Cl.	10		
8	35	153	-	-	-	8	350		1	tr	" " " " "	10		
8	55	154	-	153	11	1	350		2	tr	" " " " "	10		
9	20	155	-	154	11	8	300		2	tr	" " " " "	10		
9	35	156	-	-	-	11	350		2	tr	S. C. G. M. Cl.	10		
9	55	157	-	-	-	1	350		0	0	" " " " "	10		
10	15	158	-	157	11	1	350		3	tr	" " " " "	12		
11	10	159	-	159	1	10	400		1	tr	S. Md. G. M. Cl.	12		
11	25	160	-	-	-	11	350		0	0	" " " " "	12		
11	50	161	-	-	-	1	400		0	0	" " " " "	10		
12	15	162	-	162	1	10	400		4	tr	S. Md. G. M. Cl.	10		
12	35	163	-	-	-	11	400		2	tr	" " " " "	10		
1	00	164	-	163	11	1	400		5	tr	" " " " "	10		
1	30	165	-	-	-	11	350		0	0	" " " " "	10		
1	50	166	-	165	11	11	350		0	0	" " " " "	10		
2	10	167	-	167	2	10	500		1	tr	S. C. G. Cl. "Boulder"	10		
2	25	168	-	-	-	16	350		3	tr	" " " " "	10		
2	45	169	-	-	-	11	400		10	1	S. Md. G. Cl.	10		
12	00	170	-	-	-	11	300		9	1	S. Md. G. M. Cl. 1-31-40	10		

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	-		
Gravel	Measured	Drilling	72:20 hrs		
Bedrock	Core	Pulling	23:30 "		
Water Level		Delays	22:00 "		
		Total	117:50 hrs		
		Driller	Bertolino		
		Panner	Floense		
Est. Wt. Gold					
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		1-23-40 - 12 <sup>20</sup> pm			
Location	Copper Canyon		Hole No. E. H. N.		



# NATOMAS COMPANY FIELD LOG

# 7

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3				
12	30	171	-	-	-	1	4	400		9	1		S. Md. G. M. cl.	10	
12	55	172	-	-	-	1	1	350		1	tr		" " " " "	10	
1	20	173	-	173	1	1	2	400		3	tr		Sm. S. C. G. Sm. Cl.	10	
7	30	Blanket in hole								0	0			2-1-40	
8	00	173	6	173	11	-	4	250		0	0		Sm. S. C. G. Sm. Cl.	10	
8	30	173	10	174	3	-	2	200		0	0		" " " " "	10	
9	15	175	-	174	11	1	6	400		2	1		" " " " "	12	
9	45	176	-	-	-	-	8	200		1	tr		" " " " "	12	
10	15	177	-	176	11	-	10	300		0	0		S. Md. G. cl.	12	
10	45	178	-	-	-	-	4	350		0	0		S. C. G. Sm. Cl.	12	
11	10	179	-	-	-	-	8	400		5	1		" " " " "	12	
12	30	180	-	179	10	-	11	400		10	2		S. C. G. Cl.	12	
1	10	181	-	180	11	1	1	400		1	3		" " " " "	12	
1	50	181	9	182	-	-	9	300		4	1		C. G. trs. Cl.	12	
2	00			182	9	-	-	300		0	0		Red Rock "hard"	12	
2	15			183	9	-	-	300		0	0		" " " " "	12	
2	25			184	9	-	-	250		0	0		" " " " "	12	
2	40			185	9	-	-	200		0	0		" " " " "	12	

DEPTH		VOLUME		TIME LOG	
Soil		Calculated	55.76 cu ft	Moving	-
Gravel		Measured	44.91 cu ft.	Drilling	72:20 hrs
Bedrock	181.75	Core	30.98 cu ft.	Pulling	23:30 "
Water Level		CREW		Delays	22:00 "
		Driller	Bertolino	Total	117:50 hrs
Est. Wt. Gold	127 mg	Panner	Ploense		
Wt. Gold	228 mg.	Mgs.		Constant Used	
CALCULATED DEPTH		Ft.		Value Per Cu. Yd.	10.3
Date		1-23-40 - 12 <sup>20</sup> pm			
Location	Copper-Canyon.			Hole No.	E. 4. N

# DELAYS

	FROM	TO	TIME LOST	CAUSE
1/8	1:20	5:00	3:40	No CASING
	11:10	12:10	1:00	Drive-rod - stuck.
	2:40	3:30	:50	Changing tools.
	3:30	5:00	1:30	Exchanging - SPEARS
1/2	7:00	5:00	10:00	Rolling CASING.

**GENERAL REMARKS** from - 173' Drilled 10" ahead. could only drive 6" casing driving very hard.

# NATOMAS COMPANY FIELD LOG

ORIGINAL

Copper Canyon

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
3	-	5	-	5	-	-	-	-	-	-	-	1-24-42		
4	-	25	-	25	-	-	-	-	-	-	-	Cl-Sm FG-Loose		
												<		
9	-	26	6	26	6	-	-	-	-	-	-	1-26-42		
												GG-Boulders	12	
10	-	28	-	28	-	-	-	-	-	-	-	Shale ?		
11	-			29		-	-	-	-	-	-	<	12	
11	30	30	-	30	-	-	-	-	-	-	-	<		
12	20			30	6	-	-	-	-	-	-	<		
1	30	31	6	31	6	-	-	-	-	-	-	<	6	
2	15			32		-	-	-	-	-	-	<	6	
2	30	32	-	32	-	-	-	-	-	-	-	< Sm Small washed gravel		
3	-	33	-	33	-	-	-	-	-	-	-	< Tr-cl	4	
9	-			34		-	-	-	-	-	-	1-27-42		
												Same	12	
9	15	34	-	34	-	-	-	-	-	-	-	< Blocky	12	
10	30			35		-	-	-	-	-	-	<	12	
11	-	35	-	35	-	-	-	-	-	-	-	< Tr-F.G.	12	
11	30	36	-	36	-	-	-	-	-	-	-	<	10	
12	30	37	-	37	-	-	-	-	-	-	-	Dark Clay		
1	-	38	-	38	-	-	-	-	-	-	-	<		
1	15			40		-	-	-	-	-	-	< Soft	24	
1	30			42		-	-	-	-	-	-	< Fine Broken rock		
2	-			43		-	-	-	-	-	-	<	60	
3	-			44		-	-	-	-	-	-	Shale-Sm cl-Hard	72	
3	30			45		-	-	-	-	-	-	<	84	
												Sluffing some		
												- Making water -		

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller Lynch	Total
	Panner Stewart	
Est. Wt. Gold	Mgs.	Constant Used
Wt. Gold		

CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location Willow Creek	Hole No. 2A Line 2	
COPPER CANYON PLACER		

# NATOMAS COMPANY FIELD LOG

ORIGINAL

TIME OF PUMPING		DEPTH OF						CORE	Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g		SIZE	1			2	3				
		Hrs	Min	Ft	In							Ft			
7	30	3	-	-	-	-	-	-	-	-	-	-	12/28/41	-	
-	-	-	-	19	-	-	-	-	-	-	-	-	St-Gl-FG.	-	
1	15	20	-	-	-	-	-	-	-	-	-	-	FX Md-G-S-Gl	-	
1	30	21	-	-	-	-	-	-	-	-	-	-	Small boulder	-	
2	30	24	-	-	-	-	-	-	-	-	-	-	FG-Gl-MdG.	-	
3	10	26	-	-	-	-	-	-	-	-	-	-	Gl-FG	-	
9	-	27	-	-	-	-	-	-	-	-	-	-	12/29/41	-	
1	-	-	-	36	-	-	-	-	-	-	-	-	Bedrock-Soft-clay	503ms	
2	-	-	-	39	-	-	-	-	-	-	-	-	Fairly Hard-No clay	108	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving 1 1/2 Hr.
Gravel	Measured	Drilling 13 <
Bedrock 27 Ft.	Core	Pulling 2 <
Water Level -	CREW	Delays 1 1/2 <
Est. Wt. Gold -	Driller Lynch	Total 18 <
Wt. Gold -	Panner Stewart	
	Mgs.	Constant Used 7 1/2" SHOE

CALCULATED DEPTH                      Ft.                      Value Per Cu. Yd.                      -

Date 12-28-41

Location willow creek                      Hole No. 1-Line 2

COPPER CANYON PLACER





# NATOMAS COMPANY FIELD LOG

*ORIGINAL*

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
1	30	5	-	-	-	-	-	-	-	-	-	-	12/24/41	-
2	30	14	-	-	-	-	-	-	-	-	-	-	Top Soil - FG.	-
3	-	19	-	-	-	-	-	-	-	-	-	-	St-cl - Ft Md-G.	-
													FG-5 - Md-G - Cl (loose)	-
8	30	23	-	-	-	-	-	-	-	-	-	-	12/27/41	-
9	30	25	-	-	-	-	-	-	-	-	-	-	FG-5 - Cl	-
10	15	27	-	-	-	-	-	-	-	-	-	-	Bedrock	-
1	-	-	-	-	30	-	-	-	-	-	-	-	<	24
													<	36
													Clay seams - Not hard	

DEPTH		VOLUME		TIME LOG	
Soil		Calculated		Moving	2 HZ.
Gravel		Measured		Drilling	5 <
Bedrock	25 Ft.	Core		Pulling	15 <
Water Level	7 Ft.			Delays	2 <
			CREW	Total	10 1/2 <
		Driller	Lynch		
		Panner	Stewart		
Est. Wt. Gold	-				
Wt. Gold	-	Mgs.		Constant Used	
		CALCULATED DEPTH	- Ft.	Value Per Cu. Yd.	-
		Date			
Location	Willow creek			Hole No.	2 LINE 2
	COPPER CANYON PLACER				



# NATOMAS COMPANY FIELD LOG

ORIGINAL

TIME OF PUMPING		DEPTH OF				CORE	Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
		Hrs	Min	Ft	In			Ft	In	Ft			
10	30	3	-	-	-	-	-	-	-	-	-	12/23/41	-
12	30	7	-	-	-	-	-	-	-	-	-	Boulder-cl-G	-
1	-	12	-	-	-	-	-	-	-	-	-	St-cl-FG-5-Md-G	-
1	30	17	-	-	-	-	-	-	-	-	-	F+MdG-cl-S	-
1	45	18	-	-	-	-	-	-	-	-	-	< (loose)	-
3	10	-	-	20	-	-	-	-	-	-	-	Bedrock	-
												< (Hard)	24

DEPTH		VOLUME		TIME LOG	
Soil		Calculated		Moving	3 1/2 Hr
Gravel		Measured		Drilling	4 <
Bedrock	18 Ft.	Core		Pulling	2 <
Water Level	9 Ft.		CREW	Delays	<
		Driller	Lynch	Total	9 1/2 <
Est. Wt. Gold		Panner	Stewart		
Wt. Gold		Mgs.		Constant Used	---
CALCULATED DEPTH		Ft.		Value Per Cu. Yd.	
Date					
Location	Willow creek			Hole No.	3 LINE 2
COPPER CANYON PLACER					

# NATOMAS COMPANY FIELD LOG

ORIGINAL

TIME OF PUMPING		DEPTH OF				CORE	Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
		Hrs	Min	Ft	In			Ft	In	Ft			
10	30	3	-	-	-	-	-	-	-	-	-	1-12-42 Cl-FG-Sm Md.G-Boulder	
1	-	10	-	-	-	-	-	-	-	-	-	Cl-FG (tight)	
2	30	15	-	-	-	-	-	-	-	-	-	<	
3	30	20	-	-	-	-	-	-	-	-	-	St.Cl-FG	
10	-	24	-	-	-	-	-	-	-	-	-	1-13-42 St.Cl-FG (tight)	
10	30	-	-	26	-	-	-	-	-	-	-	Bedrock	
1	-	-	-	33	-	-	-	-	-	-	-	<	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving <
Gravel	Measured	Drilling 13 Hr.
Bedrock 26 Ft.	Core	Pulling
Water Level <	CREW	Delays
	Driller Lynch	Total
Est. Wt. Gold	Panner Stewart	
Wt. Gold	Mgs.	Constant Used

CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
	Date 1-12-42	
Location Willow Creek		Hole No. 1+225 W
COPPER CANYON PLACER		Line #2

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES		
		Pipe		Pump'g					SIZE							
		Hrs	Min	Ft	In				Ft	In	Ft				In	1
2	05	1	-	1	-	1	1	375	0	0	0	0	12/11/41	Mst. cl - FG.	-	
2	25	2	-	2	-	1	-	487	<	<	<	<	<	<	<	4
2	40	3	-	3	-	1	2	450	<	<	<	<	<	C1-FG-S	<	4
3	10	4	-	4	-	1	7	525	<	<	<	<	<	<	<	4
7	35	5	-	5	-	1	9	525	<	<	<	<	<	12/12/41	F+MdG-S-C1	4
7	50	6	-	6	1	1	4	412	<	<	<	<	<	<	<	3
8	15	7	-	7	-	1	6	487	<	<	<	<	<	<	<	4
8	30	8	-	8	-	1	5	412	<	<	2	Tr	FG-cl-S	<	4	
8	50	9	-	9	-	1	6	375	<	<	0	0	<	<	4	
9	10	10	-	9	11	1	3	375	<	<	1	Tr	F+MdG-S-C1 (tight)	<	4	
9	40	11	-	11	-	1	8	412	<	<	3	<	<	<	4	
								Slimes	<	<	0	0	CUT SAMPLE	<	-	
10	-	12	-	12	-	1	8	450	<	<	5	Tr	F+MdG-S-C1	<	4	
10	20	13	-	13	-	1	8	487	<	<	1	<	<	<	4	
10	35	14	-	13	10	1	3	450	<	<	2	<	<	<	6	
11	-	15	-	14	10	1	-	412	<	1	32	3MG	F+MdG-cl-S	<	6	
11	15	16	-	15	10	1	5	450	<	0	11	<	<	<	6	
12	30	17	-	16	11	1	6	487	<	<	3	Tr	F-G-S-C1-MdG.	<	6	
1	-	18	-	17	10	1	6	487	<	<	8	<	< (tight)	<	6	
1	20	19	-	18	10	1	5	487	<	<	5	<	<	<	6	
1	40	20	-	19	10	1	6	525	<	<	3	<	<	<	6	
2	-	21	-	21	-	1	6	487	<	<	2	<	<	<	6	
								Slimes	<	<	2	<	<	<	<	

$\frac{2}{11} \times 8.18 = 1\frac{1}{2}$   
 $\frac{3}{10} \times 8.18 = 2\frac{1}{4}$

DEPTH	VOLUME	TIME LOG
Soil	Calculated 6.4 CU. FT	Moving 3 1/2 Hrs
Gravel	Measured 5.5 ✓	Drilling 8 <
Bedrock	Core 5.3 ✓	Pulling 1 1/2 <
Water Level	CREW	Delays 1 <
	Driller Lynch	Total 14 <
	Panner Stewart	
Est. Wt. Gold 6 MG.		
Wt. Gold 2 MG 0'-11'	Mgs.	Constant Used 7 1/2" SHOE
3 1/2 12'-21'		1 1/2 0 TO 11'
CALCULATED DEPTH 21.0' Ft.		Value Per Cu. Yd. 2 1/4 12 TO 21'
Date 12-11-41		
Location COPPER CANYON	Hole No. Y-1	
Y1 - 20' EAST & 20' SOUTH OF E17		

# DELAYS

DATE	FROM	TO	TIME LOST	CAUSE
	12 -	1 -	1 Hr.	Cable off Crown Sheave

## GENERAL REMARKS

Blank lined area for general remarks.

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE	Meas. Core	No. of COLORS			TOT. EST. MBS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g				SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
9	45	1	-	1	-	9	25	0	0	0	0	12/15/41 FG-St-cl	-	
9	55	2	-	1	11	1	4	375	<	<	<	MSt-cl-F+MdG	6	
10	10	3	-	2	11	1	5	450	<	<	<	<	6	
10	30	4	-	3	10	1	6	487	<	<	2	Tr	FG-S-MdG-St-cl	6
10	50	5	-	4	9	1	4	337	<	<	3	<	FG-St-cl-S	6
11	05	6	-	5	10	1	4	412	<	<	15	IMG	<	6
11	20	7	-	6	10	1	3	487	<	<	13	<	FG-S-MdG-cl	6
12	20	7	6	6	11	1	3	300	<	<	10	Tr	< (on boulder)	6
12	40	8	-	8	-	10	262	<	<	2	<	Boulder	6	
1	-	9	-	9	-	1	4	450	<	<	68	3MG	FG-S-MdG-cl	6
1	10	10	-	10	-	1	4	487	<	<	10	Tr	<	6
				Slimes					<	<	5	<	CUT SAMPLE	
1	40	11	-	10	10	1	6	487	<	<	17	<	FG-S-MdG-Smcl	6
2	-	12	-	11	8	1	10	600	<	<	60	2MG	<	6
2	20	13	-	12	10	1	4	450	<	<	40	1<	<	6
2	40	14	-	13	11	1	5	525	<	<	35	1<	FG+MdG-S-St-cl	6
2	50	15	-	14	10	1	3	412	<	<	5	Tr	<	6
3	15	16	-	15	10	1	10	487	<	<	2	<	<	6
				Blanket					<	<	0	0	12/16/41	
7	50	17	-	16	10	1	4	487	<	<	<	<	F+MdG-S-Smcl	6
8	15	18	-	17	10	1	4	375	<	<	12	Tr	FG-cl-S	6
8	35	19	-	18	10	1	3	450	<	<	31	IMG	<	6
8	50	20	-	20	-	1	3	525	<	<	53	2<	Mcl-FG-S	6
				Slimes					<	<	11	Tr		

$\frac{3}{10} \times 8.18 = 2\frac{1}{2}$

$\frac{8}{10} \times 8.18 = 6\frac{5}{8}$

DEPTH	VOLUME	TIME LOG
Soil	Calculated 6.1 CU.FT.	Moving 1 Hr.
Gravel	Measured 5.6 ✓	Drilling 6
Bedrock	Core 5.0 ✓	Putting 1
Water Level		Delays $\frac{1}{2}$
	CREW	Total 8 $\frac{1}{2}$
	Driller Lynch	
	Panner Stewart	
Est. Wt. Gold 16 MG		
Wt. Gold $\frac{0'-10'}{10'-20'}$ $\frac{3 \text{ Mg.}}{8}$ ✓	Mgs.	Constant Used 7 $\frac{1}{2}$ " SHOE
		2 $\frac{1}{2}$ 0'-10'
CALCULATED DEPTH 20.0 Ft.		Value Per Cu. Yd. 65 10'-20'
Date 12-15-41		
Location S.W. OF E17		Hole No. Y-3
COPPER CANYON PLACER		



# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
8	20	1	-	1	-	10	225	0	0	0	0	12/13/41	St.c/-FG.	-
8	35	2	-	2	-	11	375	<	<	<	<	M-St.c/-FG.	8	
8	50	3	-	3	-	14	450	<	<	<	<	C/-F+MdG-S	8	
9	15	4	-	4	1	12	525	<	<	1	Tr	FG-S-C/	6	
9	45	5	-	5	-	16	487	<	<	0	0	F+MdG-S-C/	6	
10	15	6	-	5	9	12	375	<	<	2	Tr	< (right)	6	
10	40	7	-	7	-	16	565	<	<	9	<	<	6	
10	55	8	-	7	9	14	450	<	<	11	<	<	6	
11	15	9	-	8	11	15	450	<	<	12	<	<	6	
12	25	10	-	9	10	14	412	<	<	17	IMG	F+MdG-S-SmSt.c/	6	
12	45	10	6	10	6	9	262	<	<	19	<	<	4	
				Slimes		-	-	<	<	4	Tr	CUT SAMPLE	-	
1	-	12	-	11	11	19	600	<	<	43	2MG	F+MdG-S-C/	8	
1	20	13	-	12	11	17	412	<	<	28	1+	<	6	
1	45	14	-	14	-	12	450	<	<	13	Tr	<	6	
2	-	15	-	14	10	15	487	<	<	7	<	FG-S-C/-MdG.	-	
2	25	16	-	15	10	12	412	<	<	8	<	<	6	
2	40	17	-	16	10	16	487	<	<	3	<	<	6	
2	55	18	-	17	10	13	412	<	<	5	<	<	6	
3	15	19	-	18	10	13	412	<	<	19	IMG	<	6	
				Blanket		-	-	<	<	0	0	12/15/41		
7	30	20	-	19	10	13	375	<	<	6	Tr	FG-S-C/-MdG	3	
7	45	20	6	20	6	9	262	<	<	5	<	<	3	
				Slimes		-	-	<	<	5	<	<		

$\frac{2}{10.5} \times 8.18 = 1\frac{1}{2}$   
 $\frac{10}{10} \times 8.18 = 8\frac{1}{2}$

DEPTH	VOLUME	TIME LOG
Soil	Calculated 6.3 CU. FT.	Moving 1 1/2 Hr.
Gravel	Measured 5.2 ✓	Drilling 7 1/2 <
Bedrock	Core 4.7 ✓	Pulling 1 <
Water Level		Delays <
	CREW	
	Driller Lynch	Total 10 <
	Panner Stewart	
Est. Wt. Gold 10 MG		
Wt. Gold $\frac{2 \text{ Mg}}{10} \times \frac{0'-10'-6''}{10'-6''-20'-6''}$ Mgs.	Constant Used $7\frac{1}{2}''$ SHOE	
		15 0 to 10'-6''
CALCULATED DEPTH 20.5 Ft.	Value Per Cu. Yd. $8\frac{1}{2}$ 10'-6'' to 20'-6''	
Date 12-13-41		
Location 20' SOUTH OF E17	Hole No. Y-2	
COPPER CANYON PLACER		

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
11	-	1	-	1	-	1	-	185	0	0	0	0	12/16/41	1
11	10	2	-	1	11	1	3	337	<	<	<	<	FG-Stcl	6
11	25	3	-	2	9	1	4	337	<	<	3	Tr	<	6
12	25	4	-	4	-	1	3	450	<	<	0	0	F+MdG-cl	6
12	55	5	-	5	-	1	3	450	<	<	3	Tr	<	6
1	15	6	-	5	11	1	4	450	<	<	2	<	<	6
1	25	7	-	6	11	1	2	450	<	<	11	<	<	6
1	40	8	-	8	-	1	1	525	<	<	9	<	<	6
2	-	9	-	8	9	1	9	487	<	<	28	IMG	F+MdG-S-Stcl	6
2	15	10	-	9	11	1	2	525	<	<	14	Tr	<	6
2	45	11	-	10	11	1	5	450	<	<	8	<	<	6
3	-	11	6	11	6	1	3	337	<	<	53	IMG	<	3
				Slimes					<	<	9	Tr	CUT SAMPLE	1
				Blanket					<	<	0	0	12/17/41	1
7	30	13	-	12	10	1	11	640	<	<	68	2MG	F+MdG-S-Stcl	6
7	45	14	-	13	11	1	4	525	<	<	10	Tr	<	6
8	-	15	-	14	10	1	5	375	<	<	11	<	F+MdG-cl-S	6
8	30	16	-	15	10	1	4	412	<	<	27	<	<	6
8	45	17	-	16	10	1	3	375	<	<	16	<	<	6
9	-	18	-	17	9	1	3	375	<	<	17	<	<	10
9	20	19	-	19	-	1	2	450	<	<	14	<	F-G-cl-S-MdG	10
9	35	20	-	19	9	1	4	450	<	<	15	<	<	10
9	50	21	-	20	10	1	3	487	<	<	11	<	<	10
10	-	21	6	21	6	-	11	300	<	<	14	<	<	3
				Slimes					<	<	25	<	<	1

A<sup>3</sup>  
= 5<sup>1</sup>

DEPTH	VOLUME	TIME LOG
Soil	Calculated 66 cu. FT.	Moving 1 Hr.
Gravel	Measured 5.4 ✓	Drilling 7 ✓
Bedrock	Core 6.5 ✓	Pulling 1 1/2 ✓
Water Level	CREW	Delays -
	Driller Lynch	Total 9 1/2
Est. Wt. Gold 10 MG	Panner Stewart	
Wt. Gold 7 MG 0-11'-6" 11'-6"-21'-6" Mgs.	Constant Used 7 1/2" SHOE	
CALCULATED DEPTH 21.5 Ft.	Value Per Cu. Yd. 5.2	43 0 TO 11'-6" 11'-6" TO 21'-6"
Date 12-16-41		
Location 20' WEST OF E17	Hole No. 17+20W	
COPPER CANYON PLACER		

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
12	40	1	-	1	-	8	185	0	0	0	0	12/17/41	FG-CI	-
12	50	2	-	2	-	1	300	<	<	2	Tr	M.St.CI-FG.	10	
1	-	3	-	3	1	1	300	<	<	0	0	<	<	10
1	10	4	-	3	10	1	2337	<	<	<	<	<	<	10
1	35	5	-	4	10	1	1337	<	<	6	Tr	<	<	10
1	45	6	-	5	11	-	10412	<	<	2	<	F+Md.G-S-CI	10	
2	-	7	-	6	11	1	2487	<	<	0	0	<	<	6
2	15	8	-	7	9	1	2375	<	1	5	Tr	FG-CI-S	10	
2	30	9	-	8	11	1	5525	<	0	15	<	FG-S-Md.G-CI.	6	
2	45	10	-	9	11	1	2487	<	<	9	<	<	<	10
				Blanket				<	<	0	0	12/18/41		
7	40	11	-	10	10	2	525	<	<	3	Tr	F+Md.G-S-CI	-	
8	-	12	-	11	11	1	3412	<	<	21	<	<	<	10
8	20	13	-	13	-	1	4487	<	<	37	IMG <sup>3</sup>	<	<	6
				Slimes				<	<	26	Tr	CUT SAMPLE		
8	30	14	-	13	11	1	3450	<	<	36	IMG	FG-S-CI-MdG	6	
8	55	15	-	14	10	1	375	<	<	11	Tr	<	<	10
9	15	16	-	15	11	1	3412	<	<	10	<	<	<	6
9	30	17	-	16	11	1	4375	<	<	9	<	<	<	6
9	45	18	-	18	-	1	1450	<	<	13	<	<	<	6
10	-	19	-	19	-	1	3375	<	<	18	<	F+Md.G-S-CI	6	
10	25	20	-	19	9	1	6375	<	<	27	<	<	<	6
10	40	21	-	20	8	1	6412	<	<	11	<	FG-CI-S-MdG.	3	
10	55	22	-	20	10	1	4487	<	<	20	<	St.CI-FG-S	10	
11	05	23	-	23	-	1	3450	<	<	25	<	<	<	6
				Slimes				<	<	14	<	<	<	-

$\frac{6}{13} \times 8.18 = 3.8$   
 $\frac{4}{10} \times 8.18 = 3.3$

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	7.1 CU. FT.	Moving	1/2	HR.
Gravel	Measured	5.4 ✓	Drilling	7	<
Bedrock	Core	5.0 ✓	Pulling	1/2	<
Water Level			Delays	1/2	<
	Driller	Lynch	Total	9 1/2	<
	Panner	Stewart			
Est. Wt. Gold	8 MG.				
Wt. Gold	6 MG 0'-13'		Constant Used	7 1/2" SHOE	
	4 ✓ 13-23	Mgs.		38 0 TO 13'	
CALCULATED DEPTH	23.0	Ft.	Value Per Cu. Yd.	33 13' TO 23'	
Date	12-17-41				
Location	SW OF E17			Hole No.	X-3
COPPER CANYON PLACER					

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
		Hrs	Min	Ft	In				Ft	In	Ft				In
2	45	1	-	1	-	1	4	300	0	0	5	Tr	12/18/41	FG-CI	-
3	-	2	-	2	1	1	4	300	<	<	8	<	StCl-FG	10	
				Blanket					<	<	0	0	12/19/41		
7	30	3	-	2	10	1	-	337	<	<	<	<	StCl-FG-S	10	
7	45	4	-	3	9	1	4	375	<	<	9	Tr	<	10	
8	-	5	-	4	11	1	4	412	<	<	14	<	FG-CI-S	10	
8	30	6	-	5	11	1	4	450	<	<	8	<	<	10	
8	45	7	-	6	10	1	3	487	<	<	9	<	<	10	
9	-	7	6	7	6	-	9	425	<	<	4	<	<	6	
9	15	8	6	8	6	1	3	600	<	<	16	<	FG-CG-S-CI	6	
9	30	10	-	9	11	1	2	600	<	<	44	IMG	<	6	
10	-	11	-	10	9	1	3	450	<	<	29	<	F+Mdg-S-CI	10	
10	10	12	-	11	9	1	2	487	<	<	33	<	<	10	
10	20	13	-	12	8	1	3	450	<	<	86	3MG	F+Mdg-CI-S	10	
10	35	14	-	13	10	1	6	487	<	<	70	3<	<	3	
				Slimes					<	<	28	Tr	CUT SAMPLE		
11	-	15	-	14	10	1	4	525	<	<	33	IMG	F+Mdg-CI-S	3	
11	15	16	-	15	9	1	3	450	<	<	25	Tr	<	6	
12	25	17	-	16	9	1	3	487	<	<	15	Tr	<	3	
12	50	18	-	17	8	1	5	412	<	<	18	Tr	<	6	
1	05	19	-	18	8	1	6	600	<	<	11	Tr	<	10	
1	30	20	-	19	9	1	1	450	<	<	6	Tr	<	10	
1	45	21	-	20	9	1	4	412	<	<	3	Tr	M-CI-FG-S	10	
2	-	22	-	21	9	1	2	375	<	<	2	Tr	<	10	
2	15	23	-	22	9	1	4	412	<	<	3	Tr	<	10	
2	30	24	-	24	-	1	3	412	<	<	4	<	<	10	
				Slimes					<	<	25	<			

DEPTH	VOLUME	TIME LOG
Soil	Calculated 7.4 CU. FT	Moving 1 Hr.
Gravel	Measured 6.2 ✓	Drilling 8 <
Bedrock	Core 5.4 ✓	Pulling 1 <
Water Level	CREW	Delays <
	Driller Lynch	Total 10 <
	Panner Stewart	
Est. Wt. Gold 14 MG.		
Wt. Gold 15 MG 8-14		
6 14-24	Mgs.	Constant Used 7 1/2" SHOE
		38 OTO 14
CALCULATED DEPTH 24.0 Ft.		Value Per Cu. Yd. 48 14 TO 24
Date 12-18-41		
Location 20' N OF E17		Hole No. X-2
COPPER CANYON PLACER		

$\frac{15}{14} \times 8.18 = 8.8$   
 $\frac{6}{10} \times 8.18 = 4.9$   
 $\frac{21}{24} \times 8.18 = 7.2$

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET #1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
		Hrs	Min	Ft	In				Ft	In	Ft				In
8	40	1	-	1	-	1	2	300	0	0	5	Tr	Mst-cl-FG	12/20/41	10
8	50	2	-	1	9	1	1	300	<	<	2	<	<	<	10
9	05	3	-	2	10	1	3	412	<	<	0	0	<	<	10
9	30	4	-	3	10	1	2	450	<	<	<	<	St-cl-FG-S	<	10
9	45	5	-	4	11	1	3	487	<	<	2	Tr	<	<	10
10	05	6	-	5	11	1	5	450	<	<	0	0	FG-S-CI	<	10
10	20	7	-	6	10	1	-	450	<	<	8	Tr	<	<	10
10	30	8	-	7	7	1	3	337	<	<	8	<	S-FG	<	6
10	50	9	-	8	9	1	3	525	<	<	5	<	S-FG-CI	<	10
11	05	10	-	9	9	1	2	625	<	<	10	<	FG-S-MdG-CI	<	10
11	30	11	-	10	2	1	6	525	<	<	15	<	<	<	10
12	25	12	-	11	8	1	3	300	<	<	97	<	FG-S-CI-MdG	<	10
12	50	13	-	12	10	1	4	450	<	<	35	<	FG-CI-S	<	10
1	10	14	-	14	-	1	3	525	<	<	21	<	CI-FG-S	<	10
				Slimes					<	<	14	<	GUT SAMPLE		
1	30	15	-	14	11	1	2	565	<	<	53	MG	S-FG-CI	<	10
1	50	16	-	15	8	1	4	450	<	<	62	<	<	<	10
2	10	17	-	16	9	1	3	450	<	<	50	<	<	<	10
2	25	18	-	17	8	1	4	600	<	<	63	<	F+MdG-S-CI	<	10
2	40	19	-	18	8	1	2	525	<	<	43	<	FG-S-CI	<	10
3	10	20	-	19	9	1	5	487	<	<	12	Tr	<	<	4
				Blanket					<	<	0	0	12/21/41		
8	-	21	-	20	8	1	5	450	<	<	11	Tr	FG-S-CI-MdG	<	6
8	20	22	-	21	9	1	3	412	<	<	8	<	<	<	10
8	40	23	-	22	9	1	2	487	<	<	6	<	S-CI-FG	<	10
9	-	24	-	24	-	1	4	412	<	<	16	<	FG-S-CI	<	10
				Slimes					<	<	20	<			

DEPTH

VOLUME

TIME LOG

Soil	Calculated	7.3 CU. FT	Moving	1/2 Hr
Gravel	Measured	6.3 ✓	Drilling	8
Bedrock	Core	5.4 ✓	Pulling	1/3 <
Water Level	CREW		Delays	5 <
	Driller	Lynch	Total	10 1/2 <
Est. Wt. Gold	Panner	Stewart		

Wt. Gold  $\frac{6}{13}$  Mgs.  $\frac{0-14}{14-24}$  13 MG  
 Constant Used  $7\frac{1}{2}$ " SHOE  
 Value Per Cu. Yd.  $\frac{35}{10}$  0 TO 14  
 $\frac{19}{24}$  14 TO 24

CALCULATED DEPTH 24.0 Ft.

Date

Location NE OF E17

Hole No. X-1

COPPER CANYON PLACER

# NATOMAS COMPANY FIELD LOG

ORIGINAL

SHEET # 1

TIME OF PUMPING		DEPTH OF				CORE		Meas. Core	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
12	20	1	-	-	11	1	2	300	0	0	10	Tr	12/21/41	-
12	40	2	-	1	9	1	2	375	<	<	16	<	MStCl-F.G.	10
12	55	3	-	2	9	1	3	375	<	<	20	<	<	10
1	10	4	-	3	8	1	2	350	<	<	6	<	<	10
1	40	5	-	4	10	1	2	412	<	<	5	<	FG-cl-S	10
1	50	6	-	5	10	1	-	487	<	<	5	<	<	10
2	05	7	-	6	9	1	2	450	<	<	4	<	F+Mdg-S-CI	10
2	30	8	-	7	9	1	2	412	<	<	9	<	<	10
2	45	9	-	8	10	1	3	450	<	<	6	<	<	10
3	10	10	-	9	9	1	4	487	<	<	7	<	<	6
								Blanket	-	<	0	0	12/22/41	
7	35	11	-	10	9	1	4	450	<	<	7	Tr	FG-S-CI	6
7	55	12	-	11	9	1	5	487	<	<	13	<	FG-cl-S	10
8	10	13	-	13	-	1	4	375	<	<	9	<	<	6
								Slimes	-	<	30	<	CUT SAMPLE	-
8	30	14	-	13	10	1	3	412	<	<	2	<	FG-cl-S-Mdg.	6
8	50	15	-	14	9	1	3	412	<	<	3	<	<	6
9	10	16	-	15	9	1	2	450	<	<	4	<	<	8
9	20	17	-	16	9	1	4	375	<	<	5	<	CI-FG-S	6
9	35	18	-	17	9	1	2	375	<	<	7	<	MCI-FG-S	10
9	50	19	-	18	8	1	3	450	<	<	5	<	<	10
10	10	20	-	19	9	1	4	450	<	<	6	<	EXP. SAMPLE	10
10	30	21	-	20	9	1	9	487	<	<	1	<	<	-
10	40	22	-	21	10	1	5	450	<	<	2	<	<	6
11	-	23	-	23	-	1	4	412	<	<	4	<	<	6
								Slimes	-	<	7	<		

DEPTH

VOLUME

TIME LOG

Soil	Calculated	71 CU. FT	Moving	1 Hr.
Gravel	Measured	5.6 ✓	Drilling	7 1/2 <
Bedrock	Core	5.3 ✓	Pulling	1 1/2 <
Water Level			Delays	-
	Driller	Lynch	Total	10 <
Est. Wt. Gold	Panner	Stewart		
Wt. Gold	Mgs.		Constant Used	7 1/2" SHOE
				2 1/2 0 TO 13

CALCULATED DEPTH 230 Ft.

Value Per Cu. Yd. 2 1/2 13 TO 23

Date

Location 20' E OF E17 Hole No. 17+20E  
COPPER CANYON PLACER

$\frac{1}{13} \times 8.18 = 2.5$   
 $\frac{3}{10} \times 8.18 = 2.4$   
 $\frac{7}{23} \times 8.18 = 2.5$

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line E Hole 4  
Drill #4

February 6, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 @ 13	13	0.1477	14	1.31	8.86	115.3	8.87
2	13 - 42	29	0.3294	30	2.79	8.47	245.6	8.59
3	42 - 77	35	0.3975	12	1.12	2.82	98.7	5.96
4	77 - 103	26	0.2954	65	6.06	20.52	533.5	9.64
5	103- 128	25	0.2840	75	6.99	24.61	615.3	12.6
6	128- 149	21	0.2386	10	0.933	3.91	82.1	11.3
7	149- 169	20	0.2272	10	0.933	4.11	82.2	10.5
8	169- 173	4	0.0454	4	0.373	8.22	32.9	10.4
9	173- 181.8	8.8	0.0994	8	0.746	7.51	65.7	10.3
	178-181	3		at 3 mg		8.2	24.6	17.5
	<b>TOTAL</b>	181.8	2.0647	228	21.261	10.3		

REMARKS:     0.01136 cu. yds./ft.  
                   0.09325 ¢/mg

# NATOMAS COMPANY FIELD LOG

Page 1

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
12	05	3		3	1	1	7	500				0	2-20 5PM to 3 A.M.	3'
12	40	5		4	9	1	2	450				0	S.F.G. Sm. Cl.	20"
1	-	6		5	9		10	400				0	" MdG "	10
1	25	7		6	10	1	8	500				0	M.S. FG	10
1	50	8		7	10	1	7	500				0	" " "	10
2	20	9		9	-	1	7	550				0	" " " Tr. Cl.	10
2	35	10		10	-	1	4	500				0	" " " " "	10
2	55	11		10	11	1	2	450				0	" " " " "	10
7	05								1	TR			R-21-40 Blanket	
7	40	12		11	11	1	-	350		2	TR		M.S.-FG-Cl	10
8	-	13		12	10		11	350		4	TR		✓	10
8	20	14		13	10	1	-	350		4	TR		✓	10
8	35	15		15	1	1	-	600		6	TR		M.S. FG-SM Cl.	10
8	55	16		15	11	1	-	350		9	1		✓	10
9	15	17		16	11	1	-	400		8	TR		M.S. FG-SM-ST-Cl	10
9	30	18		17	11	1	-	350		8	TR		✓	10
10	10	19		18	11	1	-	550		6	TR		M.S.-FG-SM-Cl.	10
10	25	20		20	-		11	600		11	1		✓	10
10	35	21		21	-	1	-	500		7	TR		✓	10
10	45	22		21	11	1	-	450		2	TR		✓	10
11	-	23		22	11	1	1	450		2	TR		M.S. FG-SM-ST-Cl	10
11	20	24		23	11	1	1	450		6	TR		✓	10
11	45	25		24	11	1	1	400		3	TR		✓	10
12	05	26		25	9	1		250		0			✓	10
12	30	27		26	11	1	1	450		0			✓	10
12	45	28		27	11	1	2	400		0			✓	10
1	-	29		28	11	1	1	350		2	TR		M-ST-Cl-FG-S	10
1	15	30		30	-	1	1	500		2	TR		ST-Cl-FG-S.	10
1	45	31		31	1	1	1	550		4	TR		✓	10
2	15	32		31	11	1	2	500		3	TR		✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	2 1/2 Hrs		
Gravel	Measured	Drilling	67 hrs		
Bedrock	NO bedrock	Core	Pulling		
Water Level		CREW	Delays		
	Stewart	Driller	Bertelino		Total
Est. Wt. Gold	324 Mays	Panner	Hess		
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-20-40	11 P.M.		
Location		Copper Canyon	Hole No. E 6		



# NATOMAS COMPANY FIELD LOG

PAGE - 2

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3				
2	30	33		32	11	1	1	500				2	TR	FG-5-5M-ST-C1	10
2	40	34		33	11	1	1	350				3	TR	MdG-5-C1	10
2	50	35		34	11	1	3	350				0		✓	10
3	10	36		35	10	1	3	350				2	TR	✓	10
3	20	37		36	9	1	2	150				5	TR	VM-STC1-FG-5	10
3	30	38		37	11	1	2	250				1	TR	✓	10
3	40	39		38	11	1	1	400				0		VM-VST-C1-FG-5	10
3	50	40		40	-	1	3	350				0		✓	10
4	-	41		41	-	1	3	450				5	TR	C1-FG-5	10
2-21 5PM to 3 AM.															
5	15	42		41	11	1	1	350				1	TR	S.FG, Sm.C1	10
5	30	43		43	-		10	300				0		" " " "	10
5	45	44		43	11		11	350				0		" " " "	10
6	40	45		44	11	1	-	300				0		" " " "	10
7	-	46		45	10	1	1	300				0		" MdG. " "	10
7	15	47		46	11	1	-	300				0		" " " "	10
7	30	48		47	10	1	-	200				0		" FG M.C1	10
7	45	49		48	10		11	750				0		" " " "	10
8	-	50		49	11	1	1	400				1	TR	" " Sm.C1	10
8	10	51		50	10	1	2	400				2	TR	" " " "	10
8	20	52		51	10	1	3	350				0		" " " "	10
8	30	53		52	10		11	300				0		" " " "	10
8	40	54		53	10	1	1	350				7	TR	" " " "	10
8	55	55		54	10	1	1	400				100	18	" MdG " "	10
9	10	56		55	10	1	2	350				40	3	" " " "	10
9	30	57		56	10	1	4	350				120	10	" FG " "	10
9	45	58		57	9	1	2	300				70	5	" " " "	10
10	-	59		58	11	1	2	250				50	3	" " " "	10
10	15	60		59	10	1	1	250				40	2	" " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level	CREW		Delays		
	Stewart	Driller	Bertalino	Total	
Est. Wt. Gold	Hays	Panner	Hess		
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.		Value Per Cu. Yd.	
Date		2-21-40			
Location		Copper Canyon		Hole No. E 5 N	

# NATOMAS COMPANY FIELD LOG

Page 3.

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
2-21 5 PM to 3 AM														
10	30	61		60	11	11		350		5		Tr	S. Md G Sm Cl.	10
10	45	62		61	10	11		350				0	" " " "	10
11	-	63		62	10	1	2	400				0	" FG " "	10
11	35	64		63	11	1	2	300				0	" " " "	10
11	50	65		64	10	1	1	300				0	" " " "	10
12	05	66		65	10	1	-	250				0	" " " "	10
12	20	67		66	10	1	1	300		5		Tr	" " " "	10
12	40	68		67	9	1	1	300		15		L	" Md G " "	10
1	-	69		68	10	1	-	300		12		L	" " " "	10
1	15	70		69	10	1	2	400		7		Tr	" FG " "	10
1	30	71		70	10	1	-	400		5		Tr	" " " "	10
1	40	72		71	11	1	-	250				0	" " M. Cl.	10
1	50	73		72	10	1	6	450		3		Tr	S. FG Sm. Cl.	10
2	10	74		73	11	1	-	350		28		2	" " " "	10
2	30	75		74	9	1	1	300		5		Tr	" " " "	10
2	45	76		75	10	1	-	200		2		Tr	" " MCI	10
7	05									17		L	B-ER-40 Blanket	
7	15	77		77	-	1	2	250		36		2	VMCI-MS-FG	10
7	30	78		78	1	1	-	200		7		Tr	✓	10
7	45	79		79	-	1	1	300		32		2	✓	10
8	10	80		79	11	1	1	250		5		Tr	✓	10
8	20	81		80	11	1	1	250		3		Tr	✓	10
8	30	82		81	11	1	1	400		5		Tr	M-ST-Cl-FG-S.	10
8	40	83		83	1	1	-	350		6		Tr	✓	10
9	-	84		84	-	1	-	350		11		Tr	Cl-FG-S.	10
9	25	85		85	-	1	-	350		4		Tr	✓	10
9	40	86		85	11	1	2	350		3		Tr	ST-Cl-FG-S.	10
9	50	87		86	11	1	1	400				0	✓	10
10	05	88		88	1	1	-	400		5		Tr	✓	10
10	15	89		89	-	1	2	350		34		3	✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		Delays			
		CREW			
	Stewart	Driller Bertalino		Total	
Est. Wt. Gold	Hays	Panner Hess			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location	Copper Canyon	Hole No.	E 5 N		

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
11	-	90		89	11	1	-	300	42	5		M-CI-FG-S.	10	
11	15	91		90	11	1	1	400	34	3		M-VST-CI-FG-S.	10	
11	25	92		91	11	1	-	450	31	3		✓	10	
11	40	93		92	10	1	-	300	12	1		M-CI-FG-S.	10	
11	50	94		94	1	1	-	400	4	TT		✓	10	
12	-	95		94	11	1	-	300	13	1		✓	10	
12	50	96		95	11	1	2	350	5	TT		✓	10	
1	05	97		96	11	1	1	300	2	TT		✓	10	
1	15	98		97	11	1	-	300	0			✓	10	
1	30	99		98	11	1	-	350	1	TT		✓	10	
1	45	100		100	-	1	1	400	12	1		ST-CI-FG-S.	10	
2	-	101		101	1	1	-	400	4	TT		✓	10	
2	25	102		101	10	1	-	350	4	TT		CI-FG-S.	10	
2	35	103		102	9	1	2	300	3	TT		M-ST-CI-Md-G-S.	10	
2	50	104		103	11	1	2	350	7	TT		✓	10	
3	-	105		105	-	1	-	350	2	TT		M-CI-FG-S.	10	
3	20	106		105	11	1	-	350	0			✓	10	
3	50	107		106	10	1	-	250	3	TT		M-CI-MS-FG.	10	
4	05	108		107	11		11	350	9	TT		✓	10	
4	20	109		109	-		11	400	11	1		VMS-SM-CI-FG	10	
4	35	110		110	2	1	-	350	8	TT		✓	10	
2-22 5PM to 3AM.														
5	10	111		110	11		11	400	5	Tr		S.F.G. Sm Cl.	10	
5	30	112		111	10		10	300	2	Tr		" " " "	10	
5	45	113		113	1		8	250	6	Tr		" " " "	10	
6	45	114		114	-		11	300	12	1		" " " "	10	
7	15	115		115	-		9	200	4	Tr		" Md G. M.CI.	10	
7	45	116		115	11		10	250	1	2		" " " "	10	
8	-	117		116	11		8	300	20	3		" " " "	10	
8	30	118		117	10		11	300	15	1		" " " "	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
	Stewart	Driller Bertolino		Total	
Est. Wt. Gold	Hays	Panner Hess			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date	2-22-40				
Location	Copper Canyon		Hole No.	E 5 A	

# NATOMAS COMPANY FIELD LOG

Page 5

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
8	45	119		118	11	11		300			3	Tr	S. Md G Sm Cl.	10
9	-	120		119	10	10		350			2	Tr	" " " "	10
9	15	121		120	11	10		350			14	1	" FG. " "	10
9	30	122		121	11	11		400			70	15	" " " "	10
9	45	123		122	10	7		300			50	3	" " " "	10
10	-	124		123	11	8		300			7	Tr	" " " "	10
10	16	125		124	11	11		300			30	2	" " " "	10
10	30	126		125	10	11		400			5	Tr	" Md G " "	10
10	45	127		126	11	1		400			4	Tr	" " " "	10
11	30	128		127	11	8		200			0		" FG. M. Cl.	10
12	-	129		128	11	8		200			0		" " " "	10
12	20	130		130	-	9		250			0		" " " "	10
12	40	131		130	11	1		350			80	5	" " Sm Cl.	10
1	-	132		131	11	1		400			200	10	" " " "	10
1	20	133		132	10	10		300			100	5	" " " "	10
1	40	134		133	10	9		300			20	1	" " " "	10
2	-	135		134	11	11		350			250	15	" Md G " "	10
2	15	136		135	11	1		200			4	Tr	" FG. M. Cl.	10
2	30	137		136	11	1		200			3	Tr	" " " "	10
2	45	138		138	-	8		200			2	Tr	" " " "	10
7	-										2	Tr	2-23-40. Blanket	
7	05	139		138	11	7		200			16	2	VM S-M. Cl. FG.	10
7	20	140		139	11	1		250			21	2	✓	10
7	40	141		141	-	1		250			6	Tr	✓	10
7	55	142		142	-	1		300			3	Tr	✓	10
8	40	143		142	11	11		250			0		✓	10
8	55	144		144	-	11		250			0		M-ST. Cl-FG-M-S.	10
9	15	145		145	-	11		300			0		✓	10
9	35	146		146	2	11		300			0		VM-Cl-FG-M S.	10
9	50	147		146	11	1		250			8	Tr		10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Stewart Driller Bertalino	Total
Est. Wt. Gold	Hays Panner Hess	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location	Copper Canyon	
	Hole No. E5 N	

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
10	25	148		147	11		11	250		8		1	M-S. MCI-FG	10
10	40	149		148	10		1	250	1	24		5	✓	10
10	50	150		149	10		1	250		43		10	✓	10
11	05	151		151	-		1	300		56		9	✓	10
11	25	152		152	-		1	300	1			30	✓	10
11	50	153		152	11		1	300	1	41		6	M-ST-CI-FG-S	10
12	05	154		153	11		1	300	2	12		8	✓	10
12	40	155		154	11		1	350		10		1	✓	10
1	-	156		155	10		1	300		2	Tr		✓	10
1	15	157		156	11		1	300		4	Tr		✓	10
1	50	158		157	11		1	300				0	✓	10
2	10	159		158	10		1	300		2	Tr		✓	10
2	25	160		160	-		1	400				0	✓	10
2	45	161		161	-		1	300				0	✓	10
3	15	162		161	10		11	200				0	VM-CI-MG-FG.	10
3	30	163		162	10		1	250		3	Tr		✓	10
3	50	164		163	10		1	400		7	Tr		SM-CI-FG-S.	10
4	10	165		165	-		1	350		2	Tr			10
4	30	166		166	-		1	300		13	Tr			10
2-23 5-PM to 3 AM.														
5	15	167		166	9		1	300		7	Tr		S.FG MCI.	10
5	30	168		167	9		10	250		30	2		" " " "	10
5	45	169		168	10		11	300		8	Tr		" " " "	10
6	45	170		169	10		1	350		60	10		" " Sm CI	10
7	-	171		170	10		11	350		400	100		" " " "	10
7	30	172		171	9		11	300		80	5		" " " "	10
7	45	173		172	9		1	300		40	2		" " " "	10
8	10	174		173	10		1	350		3	Tr		" " " "	10
8	30	175		174	10		1	400		5	Tr		" " " "	10
9	-	176		175	8		11	250				0	" Md G " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Stewart Driller Bertolino	Total
Est. Wt. Gold	Hays Panner Hess	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date 2-23-40.		
Location	Copper Canyon	Hole No. E 5 N

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g				SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
9	30	177		176	10	1	1	300				0	S. Md. G. 5m Cl	10
9	45	178		177	10	1	-	300				0	" " " "	10
9	50	179		178	10	1	-	300				0	" " " "	10
10	15	180		179	11			350				0	" CG " "	10
10	45	181		180	9	1	3	350				0	" " " "	10
11	30	182		181	10		9	200				0	" F.G. M. Cl.	10
11	55	183		182	9	1	1	250				0	" " " "	10
12	15	184		183	10	1	-	200				0	" MdG "	10
12	40	185		184	11	1	-	250				0	" " " "	10
1	05	186		185	9		11	300				0	" " " "	10
1	25	187		186	10	1	-	250				0	" " " "	10
1	40	188		187	10	1	-	250				0	" " " "	10
2	-	189		188	10	1	2	300				0	" " " "	10
2	20	190		189	8		11	200				0	" " " "	10
2	40	191		190	10		11	250				0	" " " "	10
7	-											0	BIANNET	
7	10	192		191	9		10	200				0	STCI-MdG-5	10
7	25	193		192	11	1	-	300				0	✓	10
7	45	194		194	-	1	1	300				0	✓	10
8	25	195		194	9	1	-	250				0	✓	10
8	45	196		195	10	1	-	250		3	Tr	0	✓	10
9	-	197		196	10		11	450				0	M-V-STCI-MdG-5	10
9	15	198		197	9	1	1	350		2	Tr	0	✓	10
9	30	199		198	11	1	-	350		4	Tr	0	✓	10
9	50	200		200	1	1	300		10	Tr	0	✓	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated 61.36 cu. ft.	Moving 2 hrs 30 MIN
Gravel	Measured 37.70 cu. ft.	Drilling 67 hrs
Bedrock <i>No bedrock</i>	Core 36.52	Pulling 16:30
Water Level	CREW	Delays
	Driller <i>Bertolina</i>	Total
Est. Wt. Gold 324 mgs	Panner <i>Hess</i>	
Wt. Gold 259	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd. 10 <sup>6</sup>
Date		
Location <i>Copper Canyon</i>	Hole No. <i>E 5</i>	

**NATOMAS COMPANY**  
**DRILL HOLE VALUE CALCULATIONS**

Line E Hole 5  
Drill #3

February 28, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 11	11	0.1249	5	0.466	3.73	41.0	3.73
2	11 - 41	30	0.3408	12	1.12	3.29	98.7	3.41
3	41 - 76	35	0.3976	40	3.73	9.39	328.6	6.17
4	76 -110	34	0.3862	35	3.26	8.45	287.3	6.88
5	110-138	28	0.3180	40	3.73	11.7	327.6	7.87
6	138-166	28	0.3180	90	8.39	26.4	739.2	10.9
7	166-191	25	0.2840	35	3.26	11.5	287.5	11.0
8	191-200	9	0.1022	2	0.186	1.82	16.4	10.6
	166-173	7		35		11.0		17.7
TOTAL		200	2.272	259	24.1	10.6		

REMARKS      0.01136 cu. yds./ft  
                    0.09325 φ/mg

# NATOMAS COMPANY FIELD LOG

Page 1

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9	55	2	6	2	4	1	6	450		5	TR	CI-FG-S		
10	20	4		3	10	1	5	450		2	TR	✓	12	
10	40	5		4	9		10	350		1	TR	✓	10	
11	-	6		5	9		11	150		0		VM CI-FG-S	10	
11	30	7		6	10		10	400		4	TR	CI-FG-S	10	
11	55	8		7	11	1	6	300			TR	✓	10	
12	30	9		8	11	1	2	400			TR	✓	10	
12	45	10		9	10	1	4	200			TR	VM STCI-FG-S	10	
1	-	11		10	10	1	-	400			TR	VM VSTCI-FG-S	10	
1	15	12		12		1	-	350			TR	M CI-FG-SL	10	
1	50	13		12	11		11	450		7	TR	SM CI-FG-S	10	
2	10	14		13	9	1	2	450		4	TR	✓	10	
2	30	15		14	10	1	1	500		13	1	✓	10	
2	45	16		15	11	1	1	600		11	1	✓	10	
3	05	17		16	11	1	3	600		21	2	✓	10	
3	20	18		17	10	1	-	550		24	2	✓	10	
3	45	19		18	11		11	350		5	TR	M CI-MSE FG	10	
3	55	20		20			10	450		4	TR		10	
4	10	21		20	9		10	300			TR	MSTCI-FG-S	10	
4	25	22		21	10	1	3	630			TR	VM-VSTCI-FG-S	10	
Feb 16 1940 5 PM to 3 AM														
5	-	23		22	10	1	5	450		2	TR	SFG, Sm CI	10	
5	20	24		23	10	1	-	400		15	1	" " " "	10	
6	45	25		24	10		11	300		17	1	" " " "	10	
7	-	26		25	11	1	1	400		25	2	" " " "	10	
7	20	27		26	10		10	350		7	TR	" " " "	10	
7	50	28		27	10		11	350		0		" " " "	10	
8	10	29		28	10	1	4	450		10	TR	S, MdG " "	10	
8	30	30		29	11	1	1	400		5	TR	" FG. " "	10	
9	-	31		30	11	1	2	450		35	2	" " " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving 2 hrs 30 MIN
Gravel	Measured	Drilling 74 00
Bedrock	Core	Pulling 19:00
Water Level	CREW	Delays 1 hr 30 MIN
	Driller Lynch & Bertolino	Total 97 hrs
Est. Wt. Gold	Panner Hays & Hess	
Wt. Gold	Mgs. Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date	2-16-40	
Location	Copper Canyon	
	Hole No.	F6N



# NATOMAS COMPANY FIELD LOG

Page 2

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9	20	32		31	10	1	2	350			7	Tr	S.F.G. Sm Cl	10
9	35	33		32	11	1	4	250				0	Cl S. V.F.G.	10
9	45	34		34	-	1	1	200				0	" "	10
9	55	35		35	-		10	150				0	"	10
10	15	36		36	1		10	150				0	"	10
10	45	37		36	11	1	1	200				0	" Tr F.G.	10
11	-	38		38	-		10	200				0	" " "	10
11	30	39		38	11	1	-	300				0	S.F.G. M.Cl.	10
11	50	40		40	-	1	3	350				0	" " " "	10
12	20	41		40	11	1	1	300		2	Tr	" " " "	10	
12	45	42		41	10	1	2	400		1	Tr	S.F.G. Sm.Cl.	10	
1	-	43		42	11	1	2	400		1	Tr	" " " "	10	
1	25	44		44	-	1	2	450				0	" " " "	10
2	-	45		44	10	1	1	350		5	Tr	" Md.G. "	10	
2	30	46		45	10	1	2	350		7	Tr	" " " " "	10	
7	-									1	Tr	2-17-40 Blanket		
7	05	47		46	10		11	250		4	Tr	VM.Cl.-FG-S	10	
7	15	48		47	11	1	2	250		4	Tr	✓	10	
7	30	49		49	-	1	3	400			0	SM.Cl.-FG-S	10	
7	45	50		49	11	1	3	400		1	Tr	✓	10	
7	55	51		50	11	1	3	400		2	Tr	✓	10	
9	15	52		51	10	1	-	300			0	ST.Cl.-FG-S	10	
9	30	53		52	10	1	3	250			0	VM-ST.Cl.-FG-S	10	
9	45	54		53	11	1	1	300			0	✓	10	
9	55	55		54	11	1	1	300		3	Tr	✓	10	
10	05	56		56	-	1	2	450		6	Tr	SM-ST.Cl.-Md.G.-S	10	
10	15	57		56	11	1	2	450		7	Tr	✓	10	
10	50	58		57	11	1	1	350		5	Tr	Cl.-FG-S	10	
11	05	59		58	11	1	3	400		10	1	✓	10	
11	15	60		60	-	1	2	450		3	Tr	SM.Cl.-FG-S	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	2 1/2 Hrs		
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW	Delays		
		Driller	Bertolino		Total
Est. Wt. Gold		Panner	Hess		
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-16-40			
Location	Copper Canyon		Hole No. E6N		



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3			
											AM shift 2-17		
11	30	61		61	1	1	1	450	11	1	ST-CI-FG-S	10	
11	40	62		61	11	1	2	400	7	Tr	✓	10	
11	55	63		62	11	1	3	300	14	1	M-CI-FG-S	10	
1	-	64		63	11	1	1	300	8	Tr	✓	10	
1	10	65		64	9	1	1	300	23	2		10	
1	25	66		65	11	1	2	400	7	Tr	M-ST-CI-FG-S	10	
1	35	67		66	10	1	4	300	11	1	M-VST-CI-FG-S	10	
1	45	68		67	11	1	3	350	10	1	✓	10	
2	15	69		68	11	1	3	350	18	2	M-CI-FG-S	10	
2	25	70		70	-	1	3	350	33	3	ST-CI-MdG-S	10	
2	40	71		71	-	1	2	350	12	1	✓	10	
2	55	72		71	10	1	1	350	13	1	✓	10	
3	10	73		73		1	1	300	28	2	✓	10	
3	25	74		73	11	1	1	250	34	3	VM-CI-FG-S	10	
3	50	75		74	11	1	3	250	32		VM-CI-MdG-S	10	
4	05	76		76		1	1	350	20		✓	10	
4	15	77		76	11	1	3	300	8		✓	10	
4	25	78		77	10	1	3	250	6		VM-CI-FG-S	10	
4	40	79		78	11	1	2	300	6		✓	10	
2-17-40 5PM to 3AM													
5	20	80		79	10	1	3	300	25	2	S FG MCl.	10	
5	45	81		80	11	1	-	250	30	2	" " " "	10	
6	50	82		81	11	1	3	400	5	Tr	" " Sm.Cl.	10	
7	20	83		82	11	1	2	400	3	Tr	" " " "	10	
7	45	84		83	11	1	2	350	0		" " " "	10	
8	15	85		84	9	1	3	300	0		" MdG. " "	10	
8	40	86		85	10	1	3	300	0		" " " "	10	
9	-	87		86	11	1	1	400	5	Tr	" FG " "	10	
9	15	88		87	11	1	2	400	0		" " " "	10	
9	30	89		88	11	1	4	350	1	Tr	" " " "	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated			Moving	
Gravel	Measured			Drilling	
Bedrock	Core			Pulling	
Water Level	CREW		Delays		
Est. Wt. Gold	Stewart	Driller	Bertolino	Total	
	Hays	Panner	Hess		
Wt. Gold	Mgs.			Constant Used	
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-16-40			
Location		Copper Canyon		Hole No. E 6 N	

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
2-17-40 5PM to 3AM														
9	45	90		89	8	10		200		2		Tr	S.FG. Sm. Cl.	10
10	20	91		90	10	1	-	350		3		Tr	" " " "	10
10	40	92		91	11	1	2	400		2		Tr	" MdG " "	10
11	05	93		92	10	1	2	350		0			" " " "	10
11	35	94		93	11	1	-	300		0			" " " "	10
12	10	95		94	10	1	1	400		3		Tr	" FG " "	10
12	40	96		95	10		8	300		2		Tr	" " " "	10
1	-	97		97	-		10	350		0			" CG " "	10
1	15	98		97	10	1	1	300		2		Tr	" FG " "	10
1	30	99		98	9	1	3	300		3		Tr	" " " "	10
2	45	100		100	-		11	400		5		Tr	" " " "	10
7	05									0			2-18-40 Blanket	
7	15	101		100	10		7	250		26		R	VN-S-CI-FG	10
7	25	102		102	-	1	-	300		11		1	✓	10
7	40	103		103	1	1	1	500		6		Tr	M-S-SM-CI-FG	10
7	50	104		104	-	1	1	400		5		Tr	✓	10
8	05	105		105	-	1	1	400		3		Tr	✓	10
8	35	106		105	11	1	-	350		1		Tr	✓	10
8	45	107		107	-		11	450		2		Tr	✓	10
8	55	108		107	11		11	400		4		Tr	SM-CI-MdG-S	10
9	10	109		108	11	1	-	400		4		Tr	✓	10
9	25	110		109	11	1	1	400		2		Tr	✓	10
9	45	111		110	11		11	350		11		1	✓	10
9	55	112		112	1	1	-	350		10		1	CI-MdG-S	10
10	10	113		112	11	1	1	350		37		3	M-S-FG-CI	10
10	40	114		113	11		11	350		34		3	ST-CI-MdG-S	10
10	50	115		114	10	1	2	350		17		2	✓	10
11	35	116		115	10	1	1	300		9		Tr	M-CI-FG-S	10
11	50	117		116	11	1	-	400		5		Tr	CI-FG-S	10
12	-	118		118	-		11	400		12		1	✓	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller Bertolino	Total
Est. Wt. Gold	Panner Hess	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH		Value Per Cu. Yd.
	Ft.	
Date	2-16-40	
Location	Copper Canyon	
	Hole No.	1E 6 N

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
12	25	119		119	-	1	-	450			4	Tr	SM-CI-FG-S	10
12	35	120		119	11	1	-	400			7	Tr	✓	10
12	50	121		120	10	1	-	350			6	Tr	✓	10
1	20	122		121	10	1	1	350			5	Tr	CI-FG-S.	10
1	35	123		122	10	11		350			2	Tr	✓	10
1	45	124		123	11	1	-	350			7		✓	10
2	-	125		125	-	1	1	400			3		✓	10
2	30	126		125	11	1	1	300		0			M CI-VMS-SM FG.	10
2	40	127		126	11	1	-	300		0			MST CI-FG-S	10
2	55	128		127	11	1	-	350		10	1		M-CI-Mdg-S.	10
3	20	129		128	11	11		350			2	Tr	✓	10
3	35	130		130	-	1	-	350			6	Tr	✓	10
4	20	131		130	11	1	-	300			4	Tr	VMS-MCI-FG	10
4	35	132		132	-	11		400		2A	2		CI-FG-S.	10
2-18 5PM to 3 AM.														
5	10	133		133	-	8		450		13	1		S.FG. Sm Cl	10
5	20	134		133	10	1	-	400		6	Tr		" " " "	10
5	45	135		134	11	9		300		15	1		" " " "	10
6	35	136		135	11	1	-	300		6	Tr		" " " "	10
6	50	137		136	10	11		350		3	Tr		" Mdg " "	10
7	15	138		137	11	10		300		2	Tr		" " " "	10
7	35	139		138	11	1	-	350		0			" " " "	10
8	10	140		139	10	11		350		0			" CG " "	10
8	30	141		140	10	10		300		0			S.FG. Sm Cl	10
8	45	142		141	11	11		300		0			" " " "	10
9	-	143		142	10	11		300		1	Tr		" " " "	10
9	20	144		143	11	7		200		0			" " " "	10
9	35	145		144	10	11		300		4	Tr		" " " "	10
9	40	146		145	10	1	-	350		6	Tr		" " " "	10
10	10	147		147	-	9		400		15	1		" " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level			CREW		Delays
	Stewart	Driller	Bertalino	Total	
Est. Wt. Gold	Hays	Panner	Hess		
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date	2-16-40				
Location	Copper Canyon		Hole No.	E 6 N	

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
10	25	148		148	-	1	-	350		3		Tr	S.F.G Sm. Cl.	10
10	40	149		148	11		10	300		5		Tr	" " " "	10
11	-	150		150	1		11	350		7		Tr	" " " "	10
11	25	151		150	10		11	300	120	10			" " " "	10
11	45	152		151	10		10	350	240	20			" " " "	10
12	10	153		152	9		10	300	70	5			" " " "	10
12	30	154		153	10	1	-	400	60	3			" Md.G. "	10
12	45	155		154	10	1	-	400	12	1			" " " "	10
1	05	156		155	10		11	350	27	2			" FG " "	10
1	35	157		156	11		11	300	5	Tr			" " " "	10
2	-	158		157	10		10	300	7	Tr			" " " "	10
2	20	159		158	9		7	200	6	Tr			S. Md.G. M. Cl.	10
2	35	160		159	10		10	250	3	Tr			" " " "	10
2	45	161		160	10	1	-	350	3	Tr			" FG. Sm. Cl.	10
3	-	162		161	10		11	350	4	Tr			" " " "	10
7	10								2	Tr			2-19-40 Blanket	
7	30	163		162	11	1	-	250	2	Tr			VM-CI-FG-S	10
7	50	164		163	11	1	-	200	7	Tr			✓	10
8	25	165		164	10		11	250	3	Tr			✓	10
8	40	166		165	11		11	300	7	Tr			MM-S-MCI-FG.	10
8	55	167		166	10	1	1	300	11	1			✓	10
9	10	168		167	10	1	2	350	6	Tr			ST-CI-FG-S.	10
9	25	169		168	11	1	-	400	4	Tr			✓	10
9	40	170		170	-	1	-	350	5	Tr			✓	10
10	10	171		170	10	1	1	250	12	1			VM-CI-FG-S	10
10	35	172		171	10	1	1	250	2	Tr			✓	10
11	-	173		172	11	1	1	300					✓	10
11	15	174		174	-	1	1	300					VM-ST-CI-FG-S	10
11	25	175		174	11	1	2	350					✓	10
11	45	176		175	10	1	1	300					✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated			Moving	
Gravel	Measured			Drilling	
Bedrock	Core			Pulling	
Water Level	CREW		Delays		
	Driller	Bertolino		Total	
Est. Wt. Gold	Panner	Hess			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.		Value Per Cu. Yd.	
Date		2-16-40			
Location		Copper Canyon		Hole No. EGN	

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
		Hrs	Min	Ft	In			Ft	In	Ft			
12	30	177		176	10	1	-	250			0	VM-CI-FG-S	10
12	50	178		177	10	1	1	250		2	TF	✓	10
1	20	179		178	10	1	-	200		1	TF	✓	10
1	30	180		179	10	1	2	300		4	TF	✓	10
1	50	181		180	11	1	-	300		13	1	✓	10
2	10	182		181	10	1	1	200		27	2	✓	10
2	25	183		182	11	1	1	250		19	2	✓	10
2	45	184		183	11	1	1	200		18	2	✓	10
3	-	185		184	11	1	-	250		6	TF	✓	10
3	20	186		185	10	1	1	250		31	2	✓	10
3	45	187		186	11	1	2	300		3	TF	VM-ST CI-MdG-S	10
4	-	188		187	10	1	-	250		1	TF	VM-ST CI-FG-S.	10
4	15	189		188	11	1	-	300		0		✓	10
4	30	190		189	10	1	1	300		0		✓	10
2-19 5PM to 3AM.													
5	10	191		190	10		10	300		0		SFG Sm Cl.	10
5	30	192		191	10	1	2	150		0		" " M.Cl.	10
5	45	193		192	10	1	-	200		0		" " " "	10
6	40	194		193	9	1	1	350		2	TF	" Md.G. Sm. Cl.	10
7	05	195		194	10	1	2	400		0		" " " "	10
7	35	196		195	10	1	-	250		0		" " " M.Cl.	10
7	55	197		196	10	1	-	250		0		" " " "	10
8	25	198		197	10	1	2	200		0		" " " "	10
8	40	199		198	10	1	1	200		0		" " " "	10
9	-	200		200	-		10	250		0		" " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated 61.4 cu.ft	Moving 2 hr 30 MIN
Gravel	Measured 38.4 cu.ft.	Drilling 74 hrs
Bedrock	Core 37.2 cu.ft.	Pulling 19 hrs
Water Level	CREW	Delays 1 hr 30 MIN
	Stewart Driller Bortolino	Total 97 hrs
Est. Wt. Gold 179 mgs. Hays	Panner Hess	
Wt. Gold 232 mgs	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd:
	Date 2-19-40	
Location Copper Canyon		Hole No. E6 N

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line   E   Hole   6    
Drill #   3  

February 22, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 22	22	0.2499	5	0.466	1.86 <sub>m</sub>	40.9	1.86
2	22 - 46	24	0.2726	20	1.86	6.82	163.7	4.45
3	46 - 79	33	0.3749	60	5.59	14.9	491.7	8.81
4	79 -100	21	0.2386	14	1.31	5.49	115.3	8.12
5	100-132	32	0.3635	70	6.53	17.96	574.7	10.5
6	132-162	30	0.3408	30	2.80	8.22	246.6	10.1
7	162-190	28	0.3138	28	2.61	8.20	229.6	9.80
8	190-200	10	0.1136	5	0.466	4.10	41.0	9.52
TOTAL		200	2.2720	232	21.634	9.52		

REMARKS

0.01136 cu. yds./ft.  
0.09325 ¢/mg.



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS. 70	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
PIT SAMPLE				1				500			7		M CL-FG-S	
				11				500			5		✓	
				11				500			3		✓	
8	20	4		4		1		250			TF		✓	12
8	40	5		4	10	1	1	350			TF	MSTCL-FG-S	✓	10
9	10	6		5	11	1	2	400			TV	✓		10
9	45	7		6	9	1	4	400			3		✓	10
10	10	8		7	8	1	4	410			4		✓	10
10	45	9		8	11	1		450			4		SM CL-FG-S	10
11	05	10		9	11	1		450			5		✓	10
11	20	11		10	11	1	2	500			TF	M CL-FG-S	✓	10
11	40	12		11	10	1	3	500			TF	✓		10
12	00	13		13		1		550			TF	CL-FG-S	✓	10
12	40	14		13	11	1		400			0		✓	10
1	05	15		14	11	1	2	500			4	MST CL-FG-S	✓	10
1	45	16		16		1	2	450			5	CL-FG-S	✓	10
2	15	17		16	11	1	3	500			TF	✓		10
2	35	18		17	11	1		400			4	✓		10
3	15	19		18	11	1	4	550			TF	✓		10
3	45	20		19	10	1	4	500			TF	✓		10
4	10	21		21		1	1	550			3	✓		10
4	25	22		21	11	1	2	550			4	✓		10
4	40	23		22	11	1	2	500			TF	✓		10
BLANKET 5											2-4-40			
7	15	24		23	10	1	2	400			50	3	SM CL-FG-S	10
7	30	25		24	11	1	3	550			3R	2	✓	10
7	45	26		25	11	1	1	550			4	✓		10
8	00	27		26	11	1	2	550			2.7	✓		10
9	15	29		28	11	2	6	550			26	CL-FG-S	✓	10
9	35	30		29	9	1	5	550			8	MSTCL-FG-S	✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	3 hrs		
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level	CREW		Delays		
	Driller	Total			
Est. Wt. Gold	Panner				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-3-40			
Location	COPPER CANYON		Hole No. 57		



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# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
9	50	31		30	10	1	3	350		13	2	MSTCL-FG-S	10	
10	05	32		31	11	1	3	350		34	2	MSTCL-MdG-S	10	
10	20	33		32	11	1	7	350		18	2	✓	10	
10	35	34		33	11	1	5	300		19	1	VM-VSTCL-FG-S	10	
11	10	35		34	11	1	4	250		7		✓	10	
11	25	36		35	11	1	2	300			TR	✓	10	
11	40	37		37		1	1	450			TR	✓	10	
11	56	38		37	11	1	3	350		9		✓	10	
12	35	39		38	11	1	5	350		9		✓	10	
12	50	40		40		1	2	300		4		✓	10	
1	20	41		40	11	1	1	300		5		✓	10	
1	35	42		41	11	1	1	350		4		✓	10	
1	53	43		42	10	1	5	400		7		✓	10	
2	05	44		43	11	1	3	400			TR	MSTCL-FG-S	10	
2	16	45		44	10	1	2	250			TR	VM-VSTCL-FG-S	10	
2	40	46		45	11	1	2	250			TR	✓	10	
2	53	47		46	10	1	5	250		12	1	MCL-FG-S	10	
3	10	48		47	10	1	5	300		10		✓	10	
3	20	49		48	11	1	4	350		27	2	✓	10	
3	35	50		49	11	1	4	350		24	2	✓	10	
3	55	51		50	11	1	4	350		24	2	✓	10	
4	20	52		51	10	1	3	350		6		✓	10	
4	36	53		52	11	1	5	400		9		✓	10	
7	15			BLANKET								TR	S. G.	
7	25	54		53	10	1	4	450		6		M. CL. FG-S.	10	
7	41	55		55		1	4	400		3		✓	10	
7	50	56		56		1	3	350		6		✓	10	
8	-	57		56	11	1	4	400		8		✓	10	
8	40	58		57	11	1	1	450		4		✓	10	
8	56	59		58	11	1	3	400		10		✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated			Moving	
Gravel	Measured			Drilling	
Bedrock	Core			Pulling	
Water Level	CREW		Delays		
	Driller			Total	
Est. Wt. Gold	Panner				
Wt. Gold	Mgs.			Constant Used	
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-4-40			
Location		Hole No.			

# NATOMAS COMPANY FIELD LOG

# 3  
PAGE

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9	60	59	11	1	4	450					8		M. CL. FG. S.	10
9	15	61	60	11	1	3	450				7		✓	10
9	23	62	61	11	1	3	450				6		✓	10
10	63	62	11	1	4	450					22	2	✓	10
10	15	64	63	10	1	4	450				23	2	✓	10
10	30	65	64	10	1	3	350				14	1	✓	10
10	40	66	65	10	1	2	300				13	1	✓	10
10	55	67	66	11	1	3	400				16	1	✓	10
11	12	68	68	1	4	450					17	1	V. M. CL. S. FG	10
11	20	69	68	11	1	3	350				12	1		10
11	53	70	69	11	1	1	300				9		✓	10
12	20	71	70	10	1	5	400				7		✓	10
12	35	72	71	9	1	3	350				8		✓	10
12	45	73	73	1	3	450					12	1	V. M. CL. SM. G. S.	10
1	74	74	74	1	3	450					11	1	" " " FG. S.	10
1	30	75	74	10	1	6	400				12	1	" " " " "	10
1	50	76	75	10	1	3	350				23	2	" " " " "	10
2	05	77	76	10	1	5	400				22	2	M. CL. FG. S.	10
2	20	78	78	1	3	400					15	1	" " " " "	10
2	30	79	78	11	1	5	350				21	2	" " " " "	10
2	45	80	80	1	6	450					12	1	" " " " "	10
3	30	81	80	11	1	4	350				14	1	" " " " "	10
3	45	82	81	10	1	4	450				7		" " " " "	10
4	10	83	82	11	1	3	400				11	1	" " " " "	10
4	35	84	83	11	1	3	350				6		" " " " "	10
BLANKET														
7	10	85	84	11	1	4	300				4		V. M. CL. FG. S.	10
7	45	86	85	11	1	4	300				4		✓	10
8	05	87	86	10	1	1	150				9		✓	10
8	25	88	87	11	1	7	300				11	1	✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level	CREW	Delays			
	Driller	Total			
Est. Wt. Gold	Panner				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date					
Location			Hole No.		

# NATOMAS COMPANY FIELD LOG

# 4

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
8	45	89		88	10	1	1	350		25	2	M Ch - FG-S	10	
9	00	90		89	10	1	3	300		13	1	✓	10	
9	30	91		90	10	1	3	200		26	2	✓	10	
9	45	92		91	10	1	2	300		9		✓	10	
10	10	93		92	10	1	3	350		5		✓	10	
10	15	94		93	10	1	3	350		7		✓	10	
10	30	95		94	9	1	5	350		11		✓	10	
10	55	96		95	10	1	2	300		10		✓	10	
11	15	97		96	10	1		300		23	2	✓	10	
11	30	98		97	10	1	2	350		8		✓	10	
11	45	99		98	11	1	3	350		15	1	✓	10	
12	00	100		99	10	1	1	300		11		✓	10	
12	35	101		100	10		11	250		21	1	1/2 M - Ch - FG-S	10	
1	05	102		101	9	1	6	250		15	1	✓	10	
1	20	103		102	9	1	5	450		23	2	1/2 M - ST Ch - FG-S	10	
1	35	104		103	11	1	6	350		14	1	✓	10	
1	53	105		104	11	1	7	450		16	1	✓	10	
2	10	106		105	10	1		350		19	1	✓	10	
2	40	107		106	9	1		300		8		M Ch - FG-S	10	
2	53	108		107	10	1	2	300		10		✓	10	
3	15	109		108	11	1	2	250		3		1/2 M - Ch - FG-S	10	
3	30	110		109	10	1	4	300			TH	✓	10	
3	45	111		110	11	1	5	300		4		✓	10	
4	15	112		111	11	1	5	200		3		✓	10	
4	35	113		112	9	1	5	350			TH	✓	10	
7	05	114		131A N KeT								TH	2-7-40	
7	20	114		113	11	1	4	350			TH	5 M Ch - FG-S	10	
7	45	115		113	1	1	2	350		4		✓	10	
8	15	116		115	11	1	2	350		9		✓	10	
8	45	117		116	9	1	3	300		11	1	✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level	CREW	Delays			
	Driller	Total			
Est. Wt. Gold	Panner				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date		2-6-40			
Location		Hole No.			



# NATOMAS COMPANY FIELD LOG

# 5

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
9	-	118		117	9	1		500				17	SM-CH-FG-S	10
9	15	119		118	11	1	6	450				10	✓	10
9	35	120		119	10	1	2	350				3	✓	10
10	-	121		120	11	1	1	400				3	✓	10
10	45	122		122	11	1		200	17	1		1	M CH-MdG-S	10
10	55	123		122	11	1	2	350	14	1		1	CL-MdG-S	10
11	10	124		123	11	1	2	350	22	2			✓	10
11	25	125		124	11	1	1	300	16	1		1	CH-FG-S	10
11	40	126		125	10	1	3	350	10	1			✓	10
12	40	127		126	11	1		350	6	1			✓	10
12	55	128		127	11	1	2	400	7				✓	10
1	10	129		128	10	1	1	350	8				ST CL-FG-S	10
1	20	130		129	11	1	3	400	7				✓	10
1	35	131		131		1	3	400	3				✓	10
1	50	132		131	11	1	1	350	22	2			✓	10
2	45	133		132	10	1	1	200	12	1			✓	10
2	55	134		134		1	2	400	4				SM-ST-CH-MdG-S	10
3	05	135		134	11	1	2	300			TH		✓	10
3	15	136		135	11	1	1	400	9				✓	10
3	30	137		136	11	1	1	400	4				✓	10
4	-	138		137	11	1	3	300			TH			10
4	15	139		138	11	1	2	450			TH		SM-CH-MdG-S	10
4	30	140		139	11	1	1	400			TH		✓	10
4	45	141		140	11	1	1	350			TH		✓	10
								BIA N KCT	0				2-12-40	
12	25	142		142		1	1	250			TH		CL-FG-S	10
3	15	143		142	11	1	3	300	6				ST CL-FG-S	10
3	50	144		143	11	1	1	350	3				✓	10
4	05	145		144	11	1	1	350	11	1			ST CL-MdG-S	10
4	20	146		145	11	1		350	10	1			✓	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller	Total
Est. Wt. Gold	Panner	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date	2-7-40	
Location	Hole No.	

# DELAYS

FROM	TO	TIME LOST	CAUSE
2-7-40	2-12-40	45	TAKE CLUTCH OUT OF DRILL AND REPAIR. WAIT FOR PARTS.
2-12-40 12 30	3	2 30	REBABBIT HOPE SOCKET, PUT SINKER BAR ON, MEASURE IN LINE.
3 30	3 15	15	PUT LEATHER IN SAND PUMP.

**GENERAL REMARKS**



# NATOMAS COMPANY FIELD LOG

# 6

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	1			
4	35	147		146	11	1	2	300			7		MCI-FG-S	10
4	45	148		148			1	350			7		✓	10
								BLANKET			TT		2-13-40	
7	40	149		148	11	1		400			9	1		10
8	05	150		149	10	1		300			6		MCI-FG-S	10
8	30	151		151		1		350				TT	✓	10
8	30	152		152		11		250			7		VMCI-FG-S	10
9	15	153		152	11	11		300		20	2		✓	10
9	35	154		153	11	11		250			7		VM-1ST CL-FG-S	10
10		155		155		1		400			6		SM-CI-FG-S	10
10	30	156		156		11		250			8		MCI-FG-S	10
10	45	157		156	11	1		350		23	3		✓	10
11	05	158		158		1	2	350			8		✓	10
11	20	159		158	11	1		350		12	1		MSTCI-FG-S	10
11	30	160		160		1		300		5			✓	10
12	25	161		160	11	1		350		11	1		CI-FG-S	10
12	45	162		161	11	1		400		10	1		✓	10
1	15	163		162	11	1		300			8		✓	10
1	30	164		164		1		300		4			M-STCI-FG-S	10
2	05	165		164	10	1	1	300		5			✓	10
2	25	166		165	11	1	2	350		4			CL-FG-S	10
2	45	167		166	11	1		350			TT		✓	10
3	05	168		168		1		300			TT		✓	10
3	25	169		168	11	1	1	300		3			✓	10
4	10	170		169	10	1	1	200		3			MCI-MS-FG-	10
4	25	171		170	11	1	1	200			8		✓	10
4	40	172		172	1	1		300			4		✓	10
								BLANKET			TT		2-14-40	
7	30	173		172	11	1	1	300			5			10
7	45	174		173	11	1	1	350			TT		STCI-FG-S	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller	Total
Est. Wt. Gold	Panner	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
	Date	
Location		Hole No.

NATOMAS COMPANY  
**DELAYS**

FROM	TO	TIME LOST	CAUSE
2-13-40	3 30 A	30	Adjust clutch

**GENERAL REMARKS**

Handwritten notes and faint bleed-through text from the reverse side of the page, including the word "GENERAL" and other illegible characters.

# NATOMAS COMPANY FIELD LOG

# 7

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3				
6	10	175		174	9	1	3	200			3		VM-CI-MdG-S	10	
8	25	176		175	11	1		200					IT	10	
8	40	177		176	10	1		350			7		VM-ST CI-MdG-S	10	
8	55	178		177	11	1	2	450			5		M STCI-FG-S	10	
9	25	179		178	10	1	2	300			11	1	✓	10	
9	40	180		179	11	1	2	300			19	2	✓	10	
9	55	181		180	9	1	1	250			21	4	✓	10	
10	10	182		181	11	1	3	350					10	✓	10
10	25	183		183		1	1	350					5	✓	10
10	55	184		183	11	1	2	300			17	2	✓	10	
11	10	185		184	10	1		300			8		VM-VSTCI-MdG-S	10	
11	30	186		185	11	1	1	350			4		✓	10	
11	50	187		186	11	1	2	300			4		VM CI-FG-S	10	
12	25	188		187	11	1	1	350			7		✓	10	
12	45	189		188	11	1	3	450			12	1	SM-CI-FG-S	10	
1	10	190		189	10	1	1	350			4		✓	10	
1	25	191		190	11	1	2	250					IT VM CI-FG-S	10	
1	40	192		191	11	1	1	350			13	1	SM CI-FG-S	10	
2	-	193		192	10	1	2	350			16	1	✓	10	
2	25	194		193	11	1	1	300			31	3	✓	10	
2	45	195		194	11	1	2	350				6	CI-FG-S	10	
3	-	196		195	10	1	2	350				6	STCI-FG-S	10	
3	20	197		196	10	1	3	350			29	3	✓	10	
3	35	198		197	11	1	2	350				11	✓	10	
3	55	199		198	11	1		300			16	2	M-VSTCI-FG-S	10	
4	25	200		199	11	1	1	300			11	1	✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	61.36 cu ft.	Moving	3 hrs	
Gravel	Measured	40.04 cu ft.	Drilling	67 hrs	
Bedrock	Core	42.14 cu ft.	Pulling	20 hrs	
Water Level			Delays	53 hrs	
CREW					
	Driller	STEWART-Lynch	Total	143 hrs	
	Panner	HAYS-Lynch			
Est. Wt. Gold	236 MGS				
Wt. Gold	298	Mgs.	Constant Used		
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.	12 3/4	
Date	2-14-10				
Location	COPPER CANYON		Hole No.	E 7	

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line  E  Hole  # 7   
 Drill #  3

February 18, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 23	23	0.2614	6	0.559	2.14	49.3	2.14
2	23 - 53	30	0.3409	73	6.81	19.97	599.2	12.2
3	53 - 84	31	0.3522	40	3.73	10.6	328.4	11.6
4	84 - 113	29	0.3294	28	2.61	7.92	229.8	10.7
5	113-141	28	0.3180	60	5.59	17.59	492.5	12.0
6	141-148	7	0.0795	7	0.653	8.21	57.5	11.9
7	148-172	24	0.2725	20	1.86	6.83	164.1	11.2
8	172-200	28	0.3180	64	5.97	18.8	525.3	12.2
TOTAL		200	2.2715	298	27.8	12.2		

REMARKS      0.01136 cu. yds./ft.  
 0.09325 g/mg.

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	Co. In	1	2	3			
7	10	2		1	9	1	4	200				0	TOPSOIL-FG	10
7	50	3		2	11	1		200				TR	✓	10
8	05	4		4		1		250				0	CL-FG-S	10
8	20	5		4	11	1		250				TR	✓	10
8	45	6		6		1		300				TR	✓	10
9	20	7		6	11	1	1	400				TR	MSTCL-FG-S	10
9	35	8		7	10	1	1	400				0	✓	10
9	50	9		8	11	1		450		4			✓	10
10	00	10		9	9	1	2	400		12			✓	10
10	15	11		10	10	1		350		57	2		✓	10
10	25	12		11	10	1	1	400		71	3		✓	10
10	50	13		13		1	1	450		27	1		SMCL-MdG-S	10
11	10	14		14		1	2	450		24	1		✓	10
11	25	15		14	10	1	2	450		21	1		✓	10
11	40	16		16		1	1	500		114	7		CL-MdG-S	10
11	50	17		16	11	1	2	400		93	7		✓	10
12	00	18		18		1	3	400			6		✓	10
12	25	19		18	11	1	3	400		23	2		✓	10
12	55	20		19	10	1	4	350		15	1		✓	10
1	15	21		20	10	1	3	350		16	1		✓	10
1	25	22		21	10	1	3	400		37	3		✓	10
1	35	23		23		1	3	450		26	2		✓	10
1	50	24		23	10	1	4	400		6			✓	10
2	05	25		24	11	1	3	350		8			✓	10
2	30	26		25	11	1	3	400		10			CL-FG-S	10
2	45	27		26	11	1	5	400		5			✓	10
2	55	28		27	10	1	3	400				TR	✓	
3	10	29		28	11	1	3	500				TR	VMSTCL-FG-S	
3	20	30		29	11	1	3	400		21	1		MSTCL-FG-S	
3	35	31		30	10	1	3	350		23	1		✓	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	3		
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller		Total	
Est. Wt. Gold	44	Panner			
Wt. Gold	47	Mgs.		Constant Used	
CALCULATED DEPTH 0-35 Ft.		Value Per Cu. Yd. 11 <sup>0</sup>			
Date 1-22-40		7 AM			
Location COPPER CANYON		Hole No. F8			

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
4	10	32		32		1	4	350			11		MST CL-FG-S	10
4	10	33		32	11	1	5	350			19	1	✓	10
4	25	34		33	10	1	3	350			18	1	✓	10
4	35	35		34	11	1	3	400			30	3	✓	10
													1-23-40 BOX	
8	10	36		35	11	1	5	300			7		MCL-FG-S	10
8	25	37		36	11	1	4	400			19	1	✓	10
8	50	38		37	11	1	3	350			26	2	STCL-MdG-S	10
9	05	39		38	11	1	4	250			5		V-MST CL-MdG-S	10
9	15	40		39	10	1	4	300			7		✓	10
9	25	41		40	11	1	4	350			4		✓	10
9	35	42		41	10	1	3	400			6		✓	10
9	50	43		42	10	1	1	400			14	1	MSTCL-FG-S	10
10	15	44		43	11	1	4	350			34	3	✓	10
10	50	45		44	11	1	4	350			57	5	✓	10
11	00	46		45	9	1	4	350				10	✓	10
11	15	47		46	11	1	5	400				7	✓	10
11	30	47		47	10	1	3	400			55	2	✓	10
11	45	49		48	10	1	3	400			11		✓	10
12	35	50		49	11	1	3	400			19			10
12	50	57		50	10	1	3	350			16	1	STCL-CG-S	10
1	05	52		51	11	1	3	400			14		✓	10
1	15	53		52	9	1	3	400			31	2	✓	10
1	30	54		53	10	1	3	350				5	✓	10
1	40	55		54	11	1	3	450			34	1	MSTCL-FG-S	10
2	00	56		55	10	1	3	400			5		MSTCL-MdG-S	10
2	10	57		56	11	1	3	250			7		✓	10
2	20	58		57	10	1	4	400			5		✓	10
2	35	59		58	10	1	3	550			4		✓ boulder	10
2	50	60		59	11	1	1	350			12		boulder-MdG-S	10

46-60 DEPTH = 4700 VOLUME TIME LOG

Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller	Total
Est. Wt. Gold	Panner	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	35.67 Ft.	Value Per Cu. Yd. 133
Date		
Location	Hole No.	

# DELAYS

DATE	FROM	TO	TIME LOST	CAUSE
	7	8	1	CHANGE SAND PUMP LINE
	10 15	10 35	20	PUT OIL IN TRANSMISSION.

## GENERAL REMARKS

Blank lined area for general remarks.

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
3	00	61		60	10	1	3	350			19	1	CH-FG-S	10
3	25	62		61	11	1	4	350			6		✓	10
3	40	63		62	10	1	2	300				TR	VMSTGL-FG-S	10
3	50	64		63	11	1	4	300			3		✓	10
4	10	65		64	11	1	2	300			11	1	✓	10
4	20	66		65	11	1	2	300			7		✓	10
4	30	67		66	11	1	3	300			4		✓	10
7	15	68		67	11	1	4	350	12	302	8		1-24-95-B-OK MSTCH-FG-S	10
7	25	68	10	68	9	1	5	350			23	2	✓	
7	40	70		69	10	1	4	400			12	1	✓	6
7	50	71		70	10	1	3	300			3		✓	4
8	05	72		71	10	1	3	350			5		✓	
8	15	73		72	9	1	4	350			5		✓	
8	35	73	6	73	4	1	4	200			17	1	MSTCH-MdG	
9	05	74		73	11		9	200			4		VMSTSTCH-MdG	
9	15	75		74	10	1	3	250			28	3	✓	4
9	25	75	10	75	8	1	3	300			57	4	✓	4
9	40	77		76	10	1	4	350			55	3	✓	8
9	55	78		77	11	1	4	350	1		7		✓	
10	20	79		78	9	1	2	200	1		15		✓	
10	30	80		79	11	1	6	300	2		26		✓	
10	50	81		80	11	1	5	300	1		15		✓	
11	00	82		81	11	1	7	350			39	3	MCH-FG-S	
11	15	82	10	82	8	1	4	350			26	1	✓	
11	30	84		84	1	1	5	350			31	2	✓	
11	55	85		85		1	4	350			19	1	✓	6
12	30	86		86		1	4	350			13		✓	4
12	40	87		86	11	1	6	400			5		✓	
12	55	88		87	11	1	2	350				TR		4

<b>DEPTH</b> 68-84	<b>VOLUME</b> 7050 Cu In = 352 ft.	<b>TIME LOG</b>
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	<b>CREW</b>	Delays
	Driller	Total
Est. Wt. Gold 84	Panner	
Wt. Gold 165	Mgs.	Constant Used
<b>CALCULATED DEPTH</b> 67-99	<b>Ft.</b>	<b>Value Per Cu. Yd.</b> 423
<b>Date</b> 1-23-70		
<b>Location</b>		<b>Hole No.</b>



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
1	20	89		88	11	1	4	400			6		MSTCL-FG-S	6
1	25	90		90		1	4	400			9		✓	4
1	55	91		90	11	1	7	350			3		✓	6
2	05	92		91	11	1	4	400				TR	✓	
2	20	92	10	92	9	1	3	350				TR	✓	
2	35	94		93	10	1	4	350				TR	✓	6
3	20	95		94	11	1	3	350				TR	✓	
3	30	96		95	11	1	3	300				TR	✓	4
3	45	97		96	10	1	2	350			4		✓	
4	05	98		97	11	1	3	350			5		✓	4
4	20	99		98	11	1	2	300			8		✓	
1-25-40-B-OK														
7	25	100		100		1	2	400				TR	MSTCL-FG-S	6
8	25	101		100	11	1	2	350				TR	✓	6
8	35	102		101	11	1	2	350				TR	MSTCL MdG-S	8
8	50	103		102	9	1	2	250				TR	✓	8
9	05	104		104		1	3	400			5		✓	6
9	15	105		105		1	2	400			7		✓	8
10	10	106		105	11	1	1	400				TR	✓	6
10	25	107		106	10	1	1	400			9		✓	6
10	40	108		107	11	1	2	400			4		✓	8
10	55	109		108	10	1	2	400			13		✓	8
11	15	110		109	11	1	3	350	R		9		✓	6
11	25	111		110	11	1	4	300			13	R	MSTCL-MdG-S	4
12	00	112		111	11	1	4	250				16	✓	6
12	30	113		112	10	1	4	300	R		19		✓	6
12	45	114		113	9	1	4	300			27	3	✓	6
1	00	115		114	10	1	3	350			6		✓	4
1	20	116		115	9	1	5	350			13		✓	6
1	35	117		116	10	1	4	400			17	1	✓	8

DEPTH <sup>1000</sup> 100-120  $\frac{1000}{6000} = 3.00$  ft VOLUME TIME LOG

Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller	Total
Est. Wt. Gold <sup>64</sup>	Panner	
Wt. Gold <sup>124</sup>	Mgs.	Constant Used
CALCULATED DEPTH <sup>99-126</sup>	Ft.	Value Per Cu. Yd. <sup>372</sup>
Date <sup>1-24-40</sup>		
Location	Hole No.	



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
2	15	118		117	10	1	3	250				5	M ST Ch - Md G - S	6
2	35	119		116	10	1	3	400		75		3	✓	8
2	55	120		119	10	1	4	350		61		2	✓	6
3	10	120	10	120	10	1	4	450		43		2	✓	6
3	25	122		121	11	1	4	350		24		1	✓	10
3	50	123		122	10	1	5	400		17			✓	8
4	05	123	10	123	9	1	3	350		32		1	M ST Ch - FG - S	8
4	20	125		124	10	1	8	450		19			✓	10
4	35	126		125	10	1	4	300		11			✓	6
JAN - 7	20	1940		BLANK ET						5			Jan 26 - 1940 SAND, G. CL.	
7	10	127		127		1	4	450		30		2	FG. S. SM. CL.	8
7	55	128		127	10	1	1	350		12		1	FG. Md. CL. S.	8
8	20	129		129		1	2	350		8			FG. Md. CL. S.	6
8	35	130		129	11	1	3	400		7			✓	8
8	55	131		130	10	1	3	450		6			SM. ST. CL. FG. S.	10
12	40	132		132	1	1	2	350		3			✓	8
1	05	133		133		1	3	350		6			M. CL. S. G.	18
1	25	134		134		1	2	400		8			11 11 S. F. G.	15
1	45	135		134	11	1	3	400		5			✓	10
2	-	136		135	11	1	1	350		6			✓	8
2	15	137		136	11	1	3	400		4			✓	10
2	45	138		137	11	1	4	400		3			✓	10
3	-	138	10	138	8	1		300		5			✓	8
3	20	140		139	12	1	5	400		9			✓	12
3	50	141		140	10	1	2	350		5			11 ✓	8
4	20	141	10	141	8	1	1	300		4			SM. CL. FG. S.	8
4	35	143		142	10	1	2			6			✓	12
													1-27-40-B-O K	
7	20	144		143	11	1	2	250		4			SM. CL. - FG - S	8
7	40	145		144	10	1		250		4			✓	8

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller	Total
Est. Wt. Gold 3+45 <sup>6</sup> 3 colors	Panner	
Wt. Gold 22	Mgs.	Constant Used
CALCULATED DEPTH 176.143 Ft.		Value Per Cu. Yd. 10 <sup>6</sup> ✓
Date 1-25-40		
Location		Hole No.



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
8	05	146		146		1		300			7		MS CL-FG	10
8	56	149		147		1	2	200			3		MS-MCL-FG	10
9	20	148		147	11		9	250			9			10
9	50	148	8	148	8		6	200			3			8
10	25	150		150		1		150			12			12
10	55	151		151		1	1	250			34	2	MCL-FG-S	10
11	40	152		151	11		11	350			16	1		10
12	20	153		153			10	250				4		10
12	40	154		153	11		11	350				2		10
4	00	154	5	155	5			300			9		boulder	12
4	25			156	5			250			4			24
													1-28-40-BOK	
7	15			157	5			250			3			36
7	35			158	5			350			4		MCL-FG-S	48
8	40	156		159				250			6			36
9	15	159		159			5	200				11		
9	40	160		159	10	1	1	300				11		12
10	15	161		160	10	1	1	350			3			10
10	30	162		161	10	1	1	350			14			10
10	45	163		162	11	1		350			36	2		10
11	10	164		164	1	1	1	350			12			10
11	30	165		164	10	1		250			6			10
12	30	165	10	165	7	1		200				10		10
1	00	167		166	11	1		300				11		12
1	25	168		167	10	1	1	400				11		10
1	45	169		169	1	1		350			7			10
2	25	170		170		1		500			3		MCL-MdG-S	10
2	45	170	10	170	11	1		300				11		10
3	10	172		172		1	2	350				0		11
3	35	173		172	11	1		350				11		12

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller		Total	
Est. Wt. Gold	9	Panner			
Wt. Gold	17	Mgs.		Constant Used	
CALCULATED DEPTH		43-15 1/2	Ft.	Value Per Cu. Yd.	12 1/2
Date		1-27-40			
Location		Hole No.			



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
4	00	174		173	11	1	2	200		7			MdG-MCL-S	12
4	25	175		174	11	1	2	350		5			✓	12
													1-29-40-B-OK	
7	05	176		175	11	1	1	300		11			MCL-FG-S	12
7	25	177		177	1	1	1	45A		29	2		✓	12
7	50	177	10	177	9		10	250				TT	✓	10
8	15	178	10	178	10		11	200				TT	✓	12
8	43	179	8	179	9		10	300		41	4		MCL-MdG-S	12
9	10	180	6	180	7	1		200		46	3			12
9	30	181		180	11		8	200		33	3		MS-CL MdG-	12
9	55	182		181	11	1	2	300		7			MCL-FG-S	12
10	15	183		182	10	1	3	300				TT	✓	12
11	05	184		183	11		11	300				TT	✓	12
11	15			185				250				TT	MCL-MdG-S	12
11	20			186				250			0		✓	24
11	25			187				300		5			✓	36
11	30			188				250		3			MSTCL-FG-S	48
11	40			189				250		7			✓	60
12	00			190				300		4			✓	72
12	45			191				400		3			✓	84
1	10			192				350			0		✓	96
1	25			193				300			TT		MCL-FG-S	108
1	35			194				350			TT		✓	120
1	45			195				350		3			✓	132
2	05			196				350			TT		MSTCL-MdG-S	144
2	20			197				330		5			✓	156
2	30			198				300		3			MCL-FG-S	168
2	45			199				300			TT		✓	180
3	00			200				400			TT		VMSTCL-FG-S	192
													Finished-2-2-40	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	61.36 Cu. ft	Moving	3 hrs	
Gravel	200 ft. Measured	39.49	Drilling	67 hrs 45 MIN	
Bedrock	No Bedrock Core	39.13	Pulling	31 hrs	
Water Level			Delays	18-475 15 MIN	
			CREW		
	Driller	STEWART-LYNCH	Total	120 hrs	
Est. Wt. Gold	260 MGS	Panner	HAYS-LYNCH		
Wt. Gold	527	Mgs.	Constant Used		
CALCULATED DEPTH		Ft.	Value Per Cu. Yd. 21 <sup>6</sup>		
Date		1-28-40 / Finished-2-PM-2-2-40			
Location		COPPER CANYON			
		Hole No. E8-N			







# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
												1-5-40		
10	15	2		2	0	1	6	400				Tr	ST. CL. S. G.	
10	40	3		3	0	1	350					Tr	ST. CL. C. G.	10
11	-	4		4		1	450		1			Tr	ST. CL. C. G.	10
11	15	5		5		1	700		1				CL. F. S.	10
11	30	6		6			7	200		2			CL. F. S. G.	10
11	45	7		7	0	1	350		2			Tr	CL. S. G.	10
12	15	8		8	0	1	500		1			Tr	SM. CL. S. FG	10
12	40	9		9	10		2	450				Tr	SM. CL. S. G.	10
12	55	10		10	0	1	400		1			Tr	SM. CL. S. G.	10
1	10	11		10	10	1	1	250				Tr	SM. CL. M. S. G.	10
1	25	12		12		1		450		1		Tr	M. CL. M. S. G.	10
1	45	13		12	11	1	1	450		10		Tr	M. CL. S. G.	10
2	-	14		13	11	1		350		4		Tr	M. CL. G - S.	10
2	20	15		15		1	1	450	1	12	2		M. CL. G - S.	10
2	40	16		16		1	1	350		12	1		M. CL. G - S.	10
2	55	17		17		1	1	450		11	1		M. CL. G. S.	10
3	10	18		17	10	1	3	300		6	2		M. CL. M. S. G.	10
3	30	19		18	10	1	2	300		4		Tr	M. CL. S. G.	10
3	45	20		19	11	1		450		2		Tr	M. CL. S. G.	10
4	05	21		20	11	1	3	350		3		Tr	M. CL. S. G.	10
4	35	22		21	11	1		400				Tr	M. CL. S. G. G.	10
													EXAMINED JANUARY 6 1940	10
7	45	23		22	11	1	2	400		3		Tr	S. FG. Sm. CL.	10
8	25	24		24	-	1	-	300		2		Tr	" " " "	10
9	-	25		24	11		10	200		1		Tr	" " M. CL.	10
9	40	26		25	11		8	250		0			" " " "	10
10	05	27		26	11		9	250		2		Tr	" " " "	10
10	40	28		27	10		10	300		10		Tr	" " Sm. CL. Tight Gravel	10
11	10	29		28	10	1	-	350		7		Tr	" " " " " "	10
11	30	30		29	10		10	300		15		Tr	" " " " " "	10

DEPTH	VOLUME	TIME LOG
Soll	Calculated	Moving 1:45
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller STEWART	Total
Est. Wt. Gold	Panner Hess & Lynch	
Wt. Gold	Mgs. Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date	1-5-40	10 A.M.
Location	COPPER CANYON	Hole No. E. 15

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
Jan 6 1940														
12	00	31		30	11			300			3	Tr	S.F.G. Sm. Cl. Tight Ground	10
12	45	32		31	9	1	1	400			20	Tr	" " " " " "	10
1	50	33		32	10	1		350			25	Tr	" " " " " "	10
2	15	34		34	-	1		200			15	Tr	" " " " " "	10
2	50	35		35	-	1	1	350			4	Tr	" " " " " "	10
3	20	36		35	11	1	1	400			3	Tr	" MDG Sm. Cl. " "	10
3	55	37		37	-	1		400			50	1	" " " " " "	10
4	30	38		37	10	1	3	450			8	Tr	" FG " " " "	10
Jan 7 1940														
7	15	39		38	11	1	2	400			2	Tr	S.F.G. Sm. Cl.	10
7	30	40		39	11	1	1	300			3	Tr	" " " " " "	10
7	45	41		40	10	1	3	350			0	0	" " " " " "	10
8	-	42		41	10	1	1	400			12	Tr	" " " " " "	10
8	20	43		42	10	1		350			15	Tr	" " " " " "	10
8	40	44		43	10	1	1	400			17	Tr	" " " " " "	10
9	-	45		44	11	1	2	450			10	Tr	" " " " " "	10
9	20	46		45	10	1		300			2	Tr	" " McCl.	10
9	40	47		46	10	1	2	400			70	2	" " Sm "	10
10	-	48		47	10	1	2	400			30	1	" " " " " "	10
10	30	49		48	10	1		300			7	Tr	" " " " " "	10
10	50	50		49	11	1	1	350			5	Tr	" " " " " "	10
11	05	51		50	10	1	2	300			2	Tr	" " McCl.	10
11	25	52		51	11	1	1	300			3	Tr	" " " " " "	10
11	40	53		52	11	1	1	300			2	Tr	" " " " " "	10
12	05	54		53	10	1	3	450			4	Tr	" MDG Sm. Cl.	10
12	35	55		54	10	1	2	400			3	Tr	" FG " " " "	10
12	50	56		55	10	1	2	350			12	Tr	" " " " " "	10
1	00	57		56	10	1	2	200			0	0	Cl. Sm. V.F.G.	10
1	35	58		57	11	1	1	400			7	Tr	S.M.D.G. Sm. Cl.	10
1	50	59		58	10	1	2	400			5	Tr	" " " " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>Lynch &amp; Stewart</i>	Total
Est. Wt. Gold	Panner <i>Hess</i>	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location <i>Copper Canyon</i>	Hole No. <i>E-15</i>	

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	1			
Jan 7 1940														
2	20	60		60			11	200		3	Tr	S.F.G. M.C.I.	10	
2	45	61		60	11	1	2	250		2	Tr	" " " "	10	
3	-	62		61	10	1		350		7	Tr	" " Sm Cl.	10	
3	15	63		62	10	1	1	400		0	0	" " " "	10	
3	30	64		63	11	1		400		2	Tr	" " " "	10	
3	45	65		64	10	1	3	450		7	Tr	" " " "	10	
4	-	66		65	11	1	1	400		4	Tr	" MDG " "	10	
4	15	67		66	10	1	2	450		10	Tr	" " " "	10	
4	40	68		67	10	1	2	350		5	Tr	" FG Sm Cl	10	
Jan 8 1940														
7	15	69		68	10	1	1	350		2	Tr	S.F.G. Sm Cl	10	
7	30	70		69	10	1	4	450		1	Tr	" MDG " "	10	
7	45	71		70	11	1	2	300		7	Tr	" FG " "	10	
8	-	72		71	11		11	300		3	Tr	" " " "	10	
8	15	73		72	11	1		250		2	Tr	" " " M.C.I.	10	
8	30	74		73	10	1	3	350		0	0	" FG. Sm Cl.	10	
8	45	75		74	10	1	1	300		0	0	" " " " "	10	
9	05	76		75	11	1	1	300		1	Tr	" " " " "	10	
9	20	77		76	10	1	4	450		0	0	" " " " "	10	
9	40	78		77	11	1	1	350		0	0	" " " " "	10	
10	-	79		78	11	1		350		0	0	" " " " "	10	
10	20	80		79	10	1	2	400		0	0	" MD " "	10	
10	45	81		80	10	1	4	450		2	Tr	" " " "	10	
11	05	82		81	10	1		300		0	0	" FG. Sm Cl	10	
11	25	83		82	10	1		300		0	0	" " " "	10	
11	40	84		84	-	1	2	400		0	0	Bedrock soft Sm Cl.	10	
11	50			85				200		0	0	" " " "	1	
12	-			86				250		0	0	" " " "	2	
12	15			88				400		0	0	" " " "	4	
12	30			90				500		0	0	" " " "	6	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	25.78 Cu.ft.	Moving	3 Hrs	
Gravel	Measured	17.13 ✓	Drilling	32 1/2"	
Bedrock 84'	Core	16.10 ✓	Pulling	6"	
Water Level	CREW		Delays	4"	
	Driller	Stewart	Total	45 1/2 Hrs	
Est. Wt. Gold 9	Panner	Hess			
Wt. Gold 45.2	Mgs.		Constant Used		
CALCULATED DEPTH	Ft.		Value Per Cu. Yd.	4.92	
Date					
Location	Copper Canyon		Hole No.	E-15	

DELAYS

DATE	FROM	TO	TIME LOST	CAUSE
	1 PM	5 PM	4 Hrs	Repairing broken cable and soder radiator

GENERAL REMARKS

Jan 5 7AM to 10AM. Moving from Hole E-16 - E15 3 Hrs  
 Jan 5 10AM Comened drilling  
 Jan 8 1230PM Finished drilling 32 1/2 Hrs  
 Jan 8 1230PM Comened Pulling  
 Jan 9 1230 PM. Finished "  
 Lost Time 4 "  
 45 1/2 Hrs

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line E Hole 15

Drill \$3

January 10, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 22	22	0.2499	22.0	2.05	8.22	180.8	8.22
2	22 - 38	16	0.1818	5.7	0.532	2.92	46.8	5.98
3	38 - 68	30	0.3408	13.0	1.21	3.55	106.3	4.91
4	68 - 84	16	0.1817	4.5	0.419	2.31	37.0	4.41
TOTAL		84	0.9542	45.2	4.215	4.42		

*Handwritten calculations:*  
 45.2  
 62  
 ---  
 36.904  
 16  
 ---  
 84) 37064 (Y.L.  
 336  
 ---  
 346

**REMARKS**

0.01136 cy. yds. per ft.  
 0.09325 ¢ per mg.

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
1	30	2		2	0	1	2	250					Top Soil S.V.F.G.	10
2	-	3		3	0	7	300		4	Tr			S.F.G.	10
2	13	4		3	11	7	350		3	Tr			" " "	10
2	45	5		4	10	10	400		10	Tr			" " "	10
3	-	6		5	10	8	300		8	Tr			S.F.G. Sm Cl	10
3	20	7		6	11	7	400		6	Tr			" " "	10
Jan 1 1940														
7	20	8		8	0	10	450		4	Tr			S.F.G. Sm Cl	10
7	35	9		8	11	8	400		2	Tr			" " " "	10
1	45	10		10	0	10	450		3	Tr			" " " "	10
2	-	11		10	8	18	530		0	0			M.S. S.F.G.	10
2	12	12		11	10	9	350		2	Tr			S.F.G. Sm Cl.	10
2	25	13		13	0	8	400		0	0			" MDG	10
2	40	14		13	10	9	350		0	0			" " "	10
3	-	15		14	10	10	300		0	0			S.F.G. Sm Cl	10
3	18	16		15	11	10	300		3	Tr			" " " "	10
3	45	17		16	10	13	350		7	Tr			" " " "	10
4	05	18		17	10	10	350		20	1			" " " "	10
4	18	19		18	10	11	400		35	1			" " " "	10
4	35	20		19	10	13	400		13	Tr			" " " "	10
Jan 2 1940														
7	18	21		20	10	12	250		3	Tr			S.F.G. M Cl	10
7	37	22		21	11	11	350		1	Tr			" " " Sm Cl	10
8	-	23		22	10	12	350		10	Tr			" " " "	10
8	20	24		23	10	11	400		2	Tr			" " " "	10
8	40	25		24	11	12	350		7	Tr			" " " "	10
9	05	26		25	10	13	350		0	0			" " " "	10
9	22	27		26	11	12	250		0	0			" " M Cl	10
9	35	28		27	10	12	200		3	Tr			" " " "	10
10	-	29		29	0	12	250		4	Tr			" " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>Stewart</i>	Total
Est. Wt. Gold	Panner <i>Hess</i>	
Wt. Gold	Mgs. Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date	<i>12/31/39 12:30 PM</i>	
Location	Hole No. <i>E-16</i>	





# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
													Jan 3 1940	
2	30	30		30	0	12		300		2		Tr	S.F.G. Sm. Cl.	10
2	50	31		30	11	12		350		3		Tr	" " " " "	10
3	35	32		31	11	12		300		2		Tr	" " " " "	10
													Jan 3 1940	
7	15	33		32	10	12		400		3		Tr	S.F.G. Sm. Cl.	10
7	30	34		34	0	13		450		1		Tr	" " " " "	10
7	45	35		34	11	12		350		5		Tr	" " " " "	10
8	-	36		35	11	12		400		1		Tr	" " " " "	10
8	10	37		37	0	12		400		6		Tr	" " " " "	10
8	32	38		37	10	13		350		50		1	" " " " "	10
8	45	39		38	9	16		450		60		1	S.M.D.G. Sm. Cl.	10
9	-	40		39	10	12		400		100		2	" " " " "	10
9	10	41		40	10	14		300		15		Tr	" FG " " "	10
9	20	42		41	10	13		300		2		Tr	" " " " "	10
9	40	43		42	10	12		350		0		0	" " " " "	10
10	-	44		44	0	12		350		10		Tr	" " " " "	10
10	15	45		44	10	13		300		3		Tr	" " " " "	10
10	30	46		45	11	12		350		12		Tr	" " " " "	10
10	47	47		47	0	14		450		15		Tr	" " " " "	10
11	-	48		47	10	14		400		13		Tr	" " " " "	10
11	17	49		48	11	12		350		7		Tr	" " " " "	10
11	32	50		49	10	13		350		3		Tr	" " " " "	10
11	52	51		50	10	14		400		0		0	" " " " "	10
12	17	52		51	11	12		350		0		0	" " " " "	10
12	37	53		53	0	12		200		0		0	" " " " MCl.	10
1	-	54		53	10	13		400		95		2	S.F.G. Sm. Cl.	10
1	15	55		54	11	13		400		45		1	" " " " "	10
1	30	56		55	10	14		450		40		3	" MDG " "	10
1	45	57		56	10	13		400		95		5	" " " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>Stewart</i>	Total
Est. Wt. Gold	Panner <i>Hess</i>	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location	Hole No. <i>E-16</i>	

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
Jan. 3 1940														
2	-	58		57	10	14		350		90	3		S. FG. Sm Cl	10
2	18	59		58	10	17		450		50	1		" MDG "	10
2	40	60		59	11	13		300		10	Tr		" FG "	10
3	-	61		60	10	14		350		3	Tr		" " " "	10
3	25	62		61	10	12		300		0	0		" " " "	10
3	40	63		62	11	12		400		3	Tr		" " " "	10
3	55	64		63	10	16		450		5	Tr		" " " "	10
4	20	65		64	10	14		400		4	Tr		" " " "	10
4	40	66		65	10	13		350		5	Tr		" " " "	10
Jan 4 1940														
7	17	67		66	11	13		400		7	Tr		S.F.G. Sm. Cl.	10
7	45	68		67	10	12		300		5	Tr		" " " "	10
8	-	69		68	10	13		350		0	0		" " " "	10
8	15	70		69	10	14		350		2	Tr		" " " "	10
8	30	71		70	9	18		500		0	0		" MDG. "	10
8	50	72		71	11	11		200		0	0		" FG M. Cl.	10
9	18	73		72	10	12		200		2	Tr		" " " "	10
9	36	74		73	10	14		400		40	1		" " " Sm Cl	10
9	55	75		74	10	13		300		2	Tr		" " " "	10
10	15	76		75	11	14		350		6	Tr		" " " "	10
10	30	77		76	10	15		400		3	Tr		" " " "	10
10	55	78		77	9	12		350		2	Tr		S.F.G. Sm Bedrock	10
11	25	79		79	0	16		500		0	0		Bedrock MD Hard	10
11	45	80		80	0	15		500		0	0		" " "	10
12	10			81	1			350		0	0		" " "	
12	35			82	2			300		0	0		" " "	
12	50			83	0			150		0	0		" " "	
1	-			84	1			300		0	0		" " "	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	24.20 cu. ft.	Moving		
Gravel	Measured	16.22 cu. ft.	Drilling	26 3/4 Hrs	
Bedrock 79'	Core	14.36 ✓	Pulling	5 1/4 Hrs	
Water Level	CREW		Delays	9 3/4 Hrs	
	Driller	Stewart	Total	41 3/4 Hrs	
Est. Wt. Gold 22	Panner	Hess			
Wt. Gold 87.1	Mgs.		Constant Used		
CALCULATED DEPTH	79	Ft.	Value Per Cu. Yd.	9.05	
Date	Jan 7/40				
Location	Copper Canyon		Hole No.	E-16	

# DELAYS

FROM	TO	TIME LOST	CAUSE

**GENERAL REMARKS**

Comenced drilling Dec. 31 1939 12:30 P.M.  
 Finished drilling Jan. 4 1940 1 P.M. 36 1/2 Hrs  
     Repairs, Lost time 9 3/4 "  
     Drilling time 26 3/4 "  
 Comenced Pulling casing Jan. 4 1940 1 P.M.  
 Finished Pulling casing Jan 5 " 8:15 AM (5 1/4 Hrs)

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line E Hole 16

Drill #3

January 7, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 7	7	0.0796	1.8	0.168	2.11	14.75	2.11
2	7 - 20	13	0.1475	8.2	0.764	5.18	67.25	4.10
3	20 - 32	12	0.1362	7.3	0.680	4.99	59.85	4.43
4	32-66	34	0.3861	62.0	5.78	14.98	508.50	9.17
5	66 - 79	13	0.1475	7.8	0.726	4.92	63.90	9.05
TOTAL		79	0.8969	871	8.118	9.05		

**REMARKS**

0.01136 cu. yds. per ft.  
0.09325 ¢ per mg.

Sample

**GREENAN PLACERS, INC.**  
**COPPER CANYON**

**FIELD LOG**

No. ....

Examination.....

Loc. Work..... No. of Hole..... Date.....

FORM 7-5-39-500

TIME OF PUMPING		DEPTH OF				CORE						NO. COLORS			Mgs. Gold	Volume	Correct'ns	FORMATION
Hr.	Min.	Pipe		Pump'g		Drive		Pump'g		Rem.	Size							
		Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	1	2	3				

DEPTH	Calculated	TIME LOG
Soil.....	Volume.....	Moving.....
Gravel.....	Measured	Drilling.....
Depth to Bedrock.....	Volume.....	Pulling.....
Water Level.....	Core Volume.....	Delays.....
Depth pay in Bedrock.....	Est. Wt. Gold.....	Corrections.....
Nature of Bedrock.....	Wt. Gold Mgs.....	
	Constant Used.....	

REMARKS:.....  
 .....  
 .....

ESTIMATED MEAN VALUE PER CU. YARD.....  
 FT. TO..... FT.



*Copy*  
**NATOMAS COMPANY**

*Shoe-7 3/8"* **FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	Cu In	1	2	3			
2	35	4	-	4	-			600		0	0		F.G. - C1	10
3	-	5	-	5	-			8800		10	1		✓ ✓	10
3	15	6	-	6	-			8850		10	1		✓ ✓	10
3	30	7	-	7	-			8600		1	Tr		✓ ✓	10
4	-	8	-	8	-			8600		1	Tr		✓ ✓	10
7	35	9	-	9	-			10550		3	Tr		✓ ✓	10
9	30	11	-	10	11	1	8	1200		20	2		✓ ✓	15
9	45	12	-	12	-			8600		3	Tr		✓ ✓	10
9	55	13	-	12	11		7	300		10	1		✓ ✓	10
10	15	14	-	14	-			8450		5	Tr		✓ ✓	10
10	40	15	-	15	-			11400		5	Tr		✓ ✓	10
10	55	16	-	16	-			8400		3	Tr		✓ ✓	10
11	20	17	-	17	-			8300		3	Tr		✓ ✓	10
11	40	18	-	18	-			10400		3	Tr		✓ ✓	10
12	-	19	-	19	-			6350		2	Tr		✓ ✓	10
12	30	20	-	20	-			8400		2	Tr		✓ ✓	10
12	45	21	-	21	1			10150		2	Tr		✓ ✓	10
1	15	22	-	22	-			7300		10	1		✓ ✓	10
1	40	23	-	23	-			5350		3	Tr		✓ ✓	10
2	-	24	-	24	-			6450		10	1		S.-FG-Sm C1	10
2	20	25	-	25	-			6400		1	Tr		✓ ✓ ✓	10
2	50	26	-	26	-			7650		1	Tr		✓ ✓ ✓	10
3	05	27	-	27	1			6450		2	Tr		✓ ✓ ✓	10
3	20	28	-	28	1			6400		1	Tr		✓ ✓ ✓	10
3	30	29	-	29	1		0	500		1	Tr		✓ ✓ ✓	10
4	05	30	-	30	-			7400		5	Tr		✓ ✓ ✓	10
4	25	31	-	31	-			6450		10	1		✓ ✓ ✓	10
4	35	32	-	32	-			6450		1	Tr		✓ ✓ ✓	10
4	45	33	-	33	-		0	400		3	Tr		✓ ✓ ✓	10
4	55	34	-	34	-		0	400		3	Tr		✓ ✓ ✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	2 hr. 30 min		
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level	CREW		Delays		
	Driller	M.G. Scott		Total	
Est. Wt. Gold	Panner	W. Huse			
Wt. Gold	11	Mgs.	Constant Used		
CALCULATED DEPTH		0-35	Ft.	Value Per Cu. Yd.	
Date					
Location			Hole No. G 11		
Copper Canyon					





Copy  
**NATOMAS COMPANY**  
**FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
8	20	35	-	35	1	10	450		30	9		F.G. - Sm Cl	10	
8	35	36	-	36	-	9	300		25	3		✓ ✓	10	
8	45	37	-	37	-	6	400		20	2		✓ ✓	10	
9	-	38	-	38	-	6	400		60	10		✓ ✓	10	
9	20	39	-	39	-	7	450		40	6		✓ ✓	10	
9	40	40	-	40	-	9	400		20	2		✓ ✓	10	
9	55	41	-	41	-	9	450		15	2		F.G. - M. Cl.	10	
10	05	42	-	42	-	11	450		10	1		✓ ✓	10	
10	15	43	-	43	-	9	400		10	1		✓ ✓	10	
10	30	44	-	44	-	8	450		10	1		✓ ✓	10	
10	40	45	-	44	11	10	400		20	2		✓ ✓	10	
10	55	46	-	46	-	10	450		10	1		✓ ✓	10	
11	05	47	-	47	-	10	450		10	1		✓ ✓	10	
11	20	48	-	48	-	7	450		40	6		F.G. - Cl	10	
11	30	49	-	49	1	8	450		100	20		✓ ✓	10	
11	55	50	-	50	-	6	400		50	10		✓ ✓	10	
12	05	51	-	51	-	6	450		20	2		✓ ✓	10	
12	20	52	-	52	-	9	350		15	2		✓ ✓	10	
12	30	53	-	53	-	9	450		20	2		✓ ✓	10	
12	45	54	-	54	-	7	350		10	1		✓ ✓	10	
1	-	55	-	55	-	7	450		10	1		✓ ✓	10	
1	10	56	-	56	-	7	400		20	2		✓ ✓	10	
1	20	57	-	57	-	6	400		10	1		✓ ✓	10	
1	35	58	-	58	-	9	400		10	1		✓ ✓	10	
1	45	59	-	59	-	7	400		20	2		✓ ✓	10	
2	15	60	-	60	-	7	300		30	3		✓ ✓	10	
2	25	61	-	61	-	9	300		30	3		✓ ✓	10	
2	35	62	-	62	-	8	400		30	3		✓ ✓	10	
2	50	63	-	63	-	7	400		30	3		✓ ✓	10	
3	-	64	-	64	-	7	300		10	1		✓ ✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller	M.W. Scott	Total	
Est. Wt. Gold	10 <sup>2</sup>	Panner	W. Huse		
Wt. Gold	115	Mgs.		Constant Used	
CALCULATED DEPTH		34-65	Ft.	Value Per Cu. Yd.	30 <sup>45</sup>
Date					
Location			Hole No. 611		
Copper Canyon					

Copy  
**NATOMAS COMPANY**  
**FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
3	15	65	-	65	-	10	450		15	3		F.G. - C1	10	
1-6	40													
1-7	40													
1-8	40													
8	50	66	-	66	-	6	400		10	1		✓	10	
9	-	67	-	67	-	9	400		20	2		✓	10	
9	10	68	-	68	1	6	450		30	3		✓	10	
9	20	69	-	69	-	7	300		30	3		✓	10	
9	40	70	-	70	1	8	550		20	2		✓	10	
9	55	71	-	71	-	8	500		10	1		✓	10	
10	05	72	-	72	1	9	450		20	2		✓	10	
10	10	73	-	73	1	7	400	1	10	3		✓	10	
10	20	74	-	74	-	7	400		10	1		✓	10	
10	35	75	-	75	1	8	400		10	1		✓	10	
10	45	76	-	76	-	6	400		10	1		✓	10	
11	-	77	-	77	-	10	400		10	1		✓	10	
11	05	78	-	78	-	7	450		15	3		✓	10	
11	20	79	-	79	-	8	400		20	2		✓	10	
11	40	80	-	80	-	8	450		30	3		✓	10	
11	50	81	-	81	-	9	400		30	5		✓	10	
12	-	82	-	82	-	6	500		50	10		✓	10	
12	10	83	-	83	-	7	400		50	10		✓	10	
12	20	84	-	84	-	10	400		20	2		✓	10	
12	30	85	-	85	-	8	450		10	1		✓	10	
12	45	86	-	86	-	9	450		30	3		✓	10	
12	55	87	-	87	-	6	450		40	1		✓	10	
1	05	88	-	88	-	10	350		20	2		✓	10	
1	10	89	-	89	-	10	350		20	2		✓	10	
1	45	90	-	90	-	7	500		20	3		✓	10	
1	55	91	-	91	-	7	500		10	1		✓	10	
2	05	92	-	92	-	6	450		3	TV		✓	10	
2	15	93	-	93	-	7	450		1	TV		✓	10	

DEPTH		VOLUME		TIME LOG	
Soil		Calculated		Moving	
Gravel		Measured		Drilling	
Bedrock		Core		Pulling	
Water Level			CREW	Delays	
			Driller <i>M. L. Scott</i>	Total	
Est. Wt. Gold <i>83</i>		Panner <i>W. Huse</i>			
Wt. Gold <i>144</i>		Mgs.		Constant Used	
CALCULATED DEPTH <i>65-105</i> Ft.		Value Per Cu. Yd. <i>7949</i>			
Date					
Location			Hole No. <i>G 11</i>		
<i>Copper Canyon</i>					

# DELAYS

FROM	TO	TIME LOST	CAUSE
1/5/40	3:15	5 - 145	Reaming Hole
1/6/40	7 -	5 - 10 -	✓ ✓
1/7/40	7 -	5 - 10 -	✓ ✓
1/8/40	7 -	8:30 130	✓ ✓

## GENERAL REMARKS

1-5-40

3:15 Began changing tools to pull pipe to straighten Hole

1-8-40 = 8:30 Began Drilling

Copy  
**NATOMAS COMPANY**  
**FIELD LOG**

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
2 25	94	-	94	-			10 450		0	0			F.G. - C1	10
2 35	95	-	95	-			10 400		10	1			✓ ✓	10
2 55	96	-	96	-			7 350		10	1			✓ ✓	10
3 05	97	-	97	-			7 400		10	1			✓ ✓	10
3 20	98	-	98	-			10 400		10	1			✓ ✓	10
3 30	99	-	99	-			6 350		10	1			✓ ✓	10
3 45	100	-	100	-			7 450		10	1			✓ ✓	10
3 55	101	-	101	-			7 450		10	1			✓ ✓	10
4 05	102	-	102	-			7 450		20	2			✓ ✓	10
4 15	103	-	103	-			6 500		10	1			✓ ✓	10
4 25	104	-	104	-			10 450		10	1			✓ ✓	10
4 40	105	-	105	-			7 300		3	Tr			✓ ✓	10
7 55	106	-	106	-			8 650		40	4			✓ ✓	10
8 10	107	-	107	-			8 450		30	4			✓ ✓	10
8 20	108	-	108	-			8 350		30	4			✓ ✓	10
8 35	109	-	109	-			6 400		40	5			✓ ✓	10
8 45	110	-	110	-			6 300		20	2			✓ ✓	10
9 -	111	-	111	-			0 600		30	3			✓ ✓	10
9 10	112	-	112	-	1		2 300		10	1			✓ ✓	-
9 35	113	-	113	-			6 450		10	1			✓ ✓	10
9 45	114	-	114	-			7 300		10	1			✓ ✓	10
10 -	115	-	115	-			6 450		10	1			✓ ✓	10
10 10	116	-	116	-			6 450		5	Tr			✓ ✓	10
10 20	117	-	117	-			7 450		20	2			✓ ✓	10
10 35	118	-	118	-			7 450		20	2			✓ ✓	10
10 50	119	-	119	-			6 300		20	2			✓ ✓	10
11 05	120	-	120	-			6 400		10	1			✓ ✓	10
11 20	121	-	121	-			6 450		10	1			✓ ✓	10
11 30	122	-	122	-			5 350		10	1			✓ ✓	10
11 55	123	-	123	-			6 450		10	1			✓ ✓	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller	M.W. Scott	Total	
Est. Wt. Gold	47	Panner	W. Huse		
Wt. Gold	80	Mgs.		Constant Used	
CALCULATED DEPTH		105.137	Ft.	Value Per Cu. Yd.	205 <sup>2</sup>
Date					
Location		Copper Canyon		Hole No. G 11	

Copy  
**NATOMAS COMPANY  
FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
12	05	124	-	124	-	6	450	10	1			F.G. - C1	10	
12	25	125	-	125	-	6	400	10	1			✓ ✓	10	
12	35	126	-	126	1	6	350	20	2			✓ ✓	10	
12	45	127	-	127	1	7	350	20	2			✓ ✓	10	
1	05	128	-	128	-	6	450	5	Tr			✓ ✓	10	
1	20	129	-	129	-	6	600	10	1			✓ ✓	10	
1	30	130	-	130	-	0	350	10	1			✓ ✓	10	
1	55	131	-	131	-	5	400	10	1			✓ ✓	10	
2	05	132	-	132	-	5	450	3	Tr			✓ ✓	10	
2	20	133	-	133	-	3	400	10	1			✓ ✓	10	
2	40	134	-	134	1	6	600	3	Tr			✓ ✓	10	
2	50	135	-	135	1	6	450	3	Tr			✓ ✓	10	
3	05	136	-	136	-	7	250	10	1			✓ ✓	10	
3	30	137	-	137	-	7	400	1	Tr			Bed Rock	10	
3	45	138	-	138	-	8	450	1	Tr			✓ ✓	10	
4	-			139	-		600	0	0			✓ ✓	12	
4	15			140	-		450	0	0			✓ ✓	24	

105 - 111 =  $\frac{22}{47} \times 80 = 37 \text{ mg.} = 50 \frac{\text{lb}}{\text{yd.}}$

111 - 137 = 43 = 13  $\frac{\text{lb}}{\text{yd.}}$

DEPTH	VOLUME	TIME LOG
Soil	Calculated 42.09 cu. ft.	Moving
Gravel	Measured 33.30 ✓	Drilling
Bedrock	Core 19.67 ✓	Pulling 4 hr - 10
Water Level	CREW	Delays
	Driller M. W. Scott	Total
Est. Wt. Gold 2.46	Panner W. Huse	
Wt. Gold 3.50	Mgs.	Constant Used
CALCULATED DEPTH 137 Ft.	Value Per Cu. Yd. 20 $\frac{95}{-}$	
Date		
Location Copper Canyon	Hole No. G 11	



# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line G Hole 11  
Drill #1

January 11, 1940

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 34	34	0.3860	11	1.02	2.65	90.5	2.65
2	34 - 65	31	0.3520	115	10.71	30.45	943.0	15.92
3	65 - 105	40	0.4549	144	13.40	29.49	1181.0	21.03
4	105- 137	32	0.3634	80	7.45	20.52	657.5	20.97
	105 - 111	6		wt 37		50.6	303.6	22.7
TOTAL		137	1.5563	350	32.58	20.95		

**REMARKS**

0.01136 cu. yds per ft.  
0.09325 ¢ per mg.

# NATOMAS COMPANY FIELD LOG

115-7 1/2 IN  
Page - 1.

12-27-39

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3			
10	50	3	-	3	-			600	0	0		TAILINGS	
11	20	4		4	-	1	4	600	0	0		F. G. SM. CL.	10
11	30	5		5		1	2	650	1	TR		" " " "	10
11	55	6		6		1	5	450	1	TR		" " " "	10
12	15	7		7		1	5	600	1	TR		" " " "	10
12	35	8		8		1	5	400	1	1		" " " "	10
1	10	9		9				400	1	TR		F. G. CLEAN	10
1	30	10		10				350	1	TR		" " " "	10
2	-	11		10	11	1	1	350	1	TR		" " " "	10
2	15	12		12				450	1	TR		" " " "	10
2	30	13		13	1			450	1	TR		" " SM. CL.	10
2	40	14		13	11	1		200	1	TR		" " S. " "	10
2	55	15		15				450	0	0		" " " "	10
3	10	16		16				400	1	TR		" " " "	10
3	30	17		17				500	1	TR		" " " "	10
3	50	18		18	1			600	0	0		" " " "	10
4	-	19		19	1			200	1	TR		" " " "	10
4	35	20		20	1			400		TTR		" " " "	10
7	35	21		21	1			450	0	0		" " " "	10
8	-	22		22	1			350	0	0		" " " "	10
8	35	23		23				650	2	TR		" " " "	10
9	-	24		24	1			950	1	TR		" " " "	10
9	30	25		25				600	1	TR		S. SM. F. G.	10
9	45	26		26				450	1	TR		" " " " F. CL.	10
10	05	27		27	1			500	3	TR		" " " "	10
10	20	28		28	1			450	6	1		" " " "	10
10	35	29		29	1			350	3	TR		" " " "	10
10	55	30		30				400	10	1		" " " "	10
11	30	31		31				450	20	2		" " " "	10
11	45	32		32	1			350	10	1		" " " "	10

12-29

DEPTH

VOLUME

TIME LOG

Soil	Calculated	Moving 3 hr 20 m.
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M. L. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. H. H. H.</i>	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location <i>COPPER CANYON</i>	Hole No. <i>G. 13.</i>	





# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g				SIZE						
		Hrs	Min	Ft	In			Ft	In	Ft				In
12	10	33		33	7	10	450				10	1	S. SM. F. G. & Ch.	10
12	25	34		34	1	10	400				10	1	" " " " " "	10
12	45	35		35		1	400				10	1	" " " " " "	10
12	55	36		35	11	6	350				10	1	" " " " " "	10
1	10	37		37		10	450				4	TR	" " " " " "	10
1	25	38		38		1	450				2	TR	" " " " " "	10
1	40	39		39		7	400				2	TR	" " " " " "	10
1	55	40		40		6	300				8	1	" " " " " "	10
2	15	41		41		9	400				10	1	" " " " " "	10
2	25	42		42		11	450				20	2	F. G. Ch.	10
2	40	43		43		1	400				20	2	" " " " " "	10
2	50	44		44		1	400				10	1	" " " " " "	10
3	05	45		45		1	400				3	TR	" " " " " "	10
3	20	46		46		1	400				10	1	" " " " " "	10
3	35	47		47		1	2	450			10	1	" " " " " "	10
3	50	48		48		10	450				3	TR	" " " " " "	10
4	05	49		49		10	450				3	TR	" " " " " "	10
4	35	50		50		9	400				3	TR	" " " " " "	10
7	30	51		51		8	400				20	2	" " " " " "	10
8	-	52		52		1	8	450			10	1	" " " " " "	10
8	20	53		53		8	400				10	1	" " " " " "	10
8	45	54		54		10	600				8	1	" " " " " "	10
9	-	55		55		11	400				3	TR	" " " " " "	10
9	15	56		56		9	450				10	1	" " " " " "	10
9	30	57		57		11	450				10	1	" " " " " "	10
9	40	58		57	11	1	450				10	1	F. G. M. Ch.	10
9	50	59		59		9	400				5	TR	" " " " " "	10
10	05	60		60		8	400				30	5	F. G. SM. Ch.	10
10	40	61		61		11	400				20	2	" " " " " "	10
10	55	62		62		9	400				10	1	" " " " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M. G. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Nuss</i>	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		
Location	<i>COPPER CANYON</i>	
	Hole No.	<i>G. 13</i>

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
11	05	63		63		10	450			10	1	F. G. SM. CL.	10	
11	20	64		64		10	450			10	1	" " " "	10	
11	35	65		65		9	400			5	TR	" " " "	10	
11	50	66		65	11	9	300			10	1	" " " "	10	
12	15	67		67		11	600			5	TR	" " " "	10	
12	30	68		68		8	600			10	1	" " " "	10	
12	50	69		69		9	400			20	2	" " " "	10	
1	05	70		70		10	450			10	1	" " " "	10	
1	25	71		70	11	11	450			10	1	" " " "	10	
1	45	72		72		9	450			10	1	" " " "	10	
2	-	73		73		9	450			10	1	" " " "	10	
2	15	74		74		8	450			10	1	" " " "	10	
2	25	75		75		9	500			10	1	" " " "	10	
2	40	76		76		8	450			10	1	" " " "	10	
2	55	77		77		9	450			10	1	" " " "	10	
3	10	78		78	1	8	500			10	6	" " " "	10	
3	25	79		79		10	450			40	6	" " " "	10	
3	45	80		80		10	400			20	2	" " " "	10	
4	10	81		81	1	11	450			20	2	" " " "	10	
4	30	82		82		11	450			25	3	" " " "	10	
4	40	83		83		11	450			20	2	" " " "	10	
12-30	55	84		84		10	450			20	2	" " " "	10	
8	15	85		85	1	11	600			10	1	" " " "	10	
8	40	86		86	1	8	450			20	2	" " " "	10	
8	55	87		87	1	10	450			10	1	" " " "	10	
9	10	88		88	1	11	300			10	1	" " " "	10	
9	25	89		89		10	400			20	2	" " " "	10	
9	40	90		90		9	350			20	2	" " " "	10	
10	15	91		91	1	12	450			10	1	" " " "	10	
10	30	92		92		10	500			10	1	" " " "	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level			CREW	Delays	
			Driller <i>Mr. LeScott</i>	Total	
Est. Wt. Gold <i>51</i>			Panner <i>W. House</i>		
Wt. Gold <i>635</i>	Mgs.	Constant Used			
<i>5083</i>	<i>33</i> Ft.	Value Per Cu. Yd. <i>1578</i>			
Date					
Location <i>COPPER CANYON</i>			Hole No. <i>G. 13</i>		

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
10	45	93		93		6	300		10	1			f. g. & sm. cl.	10
11	-	94		94		8	350		10	1			" " " " "	10
11	20	95		95	1	6	450		10	1			" " " " "	10
11	40	96		96		6	400		3	TR			" " " " "	10
11	50	97		97		7	550		3	TR			" " " " "	10
12	05	98		98		6	600		10	1			" " " " "	10
12	20	99		99		9	400		3	TR			" " " " "	10
12	35	100		100		6	450		3	TR			" " " " "	10
1	-	101		101		1	500		3	TR			" " " " "	10
1	15	102		102		9	350		2	TR			" " " " "	10
1	35	103		103		6	300		2	TR			" " " " "	10
1	50	104		104		8	400		1	TR			" " " " "	10
2	05	105		105		8	400		2	TR			" " " " "	10
2	20	106		106		8	400		10	1			" " " " "	10
2	40	107		107		6	400		3	TR			" " " " "	10
2	55	108		108		10	400		10	1			" " " " "	10
3	15	109		109		9	350		10	1			" " " " "	10
3	30	110		110		6	350		3	TR			" " " " "	10
3	45	111		111		6	350		2	TR			" " " " "	10
4	-	112		112		10	400		10	1			" " " " "	10
4	20	113		113		8	500		3	TR			" " " " "	10
12-31	45	114		114	1	6	400		2	TR			" " " " "	10
8	05	115		115		6	350		10	1			" " " " "	10
8	20	116		116		9	300		4	TR			" " " " "	10
8	35	117		117	11	8	300		10	1			" " " " "	10
8	55	118		118		6	300		10	1			" " " " "	10
9	10	119		119		6	350		20	2			" " " " "	10
9	30	120		120		7	300		10	1			" " " " "	10
9	55	121		121		7	300		4	TR			" " " " "	10
10	10	122		122		7	400		10	1			" " " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		Delays			
		CREW			
		Driller <i>Mr. L. Scott</i>		Total	
Est. Wt. Gold <i>21</i>		Panner <i>Wt. Huss</i>			
Wt. Gold <i>372</i>	Mgs.	Constant Used			
<i>83-113</i>					
CALCULATED DEPTH <i>30</i>	Ft.	Value Per Cu. Yd. <i>10<sup>3</sup></i>			
Date					
Location <i>COPPER CANYON</i>		Hole No. <i>9-13</i>			

# NATOMAS COMPANY FIELD LOG

NEW YEAR - 1940

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
10	30	123		123		7	350		20	2			fr G. S. 75M. ch.	10
10	50	124		124		6	450		10	1			" " " " " "	10
11	05	125		125		6	400		10	1			" " " " " "	10
11	20	126		126		6	400		10	1			" " " " " "	10
11	45	127		127		6	400		10	1			" " " " " "	10
12	-	128		128		6	450		10	1			" " " " " "	10
12	15	129		129		6	450		5	TR			" " " " " "	10
1	55	130		130		7	400		10	1			" " " " " "	10
2	15	131		131		6	350		10	1			" " " " " "	10
2	30	132		132		8	300		1	TR			" " " " " "	10
3	-	133		133		6	450		10	1			" " " " " "	10
3	15	134		134		6	400		3	TR			" " " " " "	10
3	35	135		135	1	6	450		3	TR			" " " " " "	10
3	50	136		136		7	450		10	1			" " " " " "	10
4	05	137		136	11	9	400		3	TR			" " " " " "	10
4	25	138		138		7	400		10	1			" " " " " "	10
4	1-40	139		139	1	7	400		10	1			" " " " " "	10
8	30	140		140		8	400		5	TR			" " " " " "	10
8	45	141		141		6	450		10	1			" " " " " "	10
9	-	142		142		6	400		10	1			" " " " " "	10
9	15	143		143		7	400		10	1			" " " " " "	10
9	35	144		144		7	350		5	TR			" " " " " "	10
9	55	145		145		7	400		5	TR			" " " " " "	10
10	10	146		146		8	350		3	TR			" " " " " "	10
10	25	147		147		7	350		10	1			" " " " " "	10
10	45	148		148		6	400		5	TR			" " " " " "	10
11	05	149		149		6	400		10	1			" " " " " "	10
11	25	150		150		6	300		2	TR			" " " " " "	10
11	45	151		151		6	400		1	TR			" " " " " "	10
12	-	152		152		7	400		2	TR			" " " " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level			CREW		Delays
	Driller	<i>M. G. Scott</i>		Total	
Est. Wt. Gold	Panner	<i>W. H. H. H.</i>			
Wt. Gold	Mgs.	Constant Used			
112-138 CALCULATED DEPTH		26	25'	Value Per Cu. Yd.	8 <sup>53</sup>
Date					
Location			Hole No.		
COPPER CANYON			G-13		



# NATOMAS COMPANY FIELD LOG

Page - 6

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
12	20	153		153		8	300				2	TR	S. G. S. 7 SM. CH.	10
12	35	154		154		7	300				1	TR	" " " " " "	10
12	55	155		155		8	300				2	TR	" " " " " "	10
1	20	156		156		6	350				10	1	" " " " " "	10
1	35	157		157		6	350				10	1	" " " " " "	10
1	50	158		158		7	400				10	1	" " " " " "	10
2	10	159		159		10	300				10	1	" " " " " "	10
2	40	160		160		10	350				5	TR	" " " " " "	10
2	55	161		160 11		9	350				3	TR	" " " " " "	10
3	15	162		162		7	400				2	TR	" " " " " "	10
3	30	163		163		10	400				2	TR	" " " " " "	10
3	50	164		164		7	350				1	TR	" " " " " "	10
4	05	165		165		6	400				1	TR	" " " " " "	10
4	20	166		166		6	400				1	TR	" " " " " "	10
4	50	167		167		8	400				1	TR	" " " " " "	10
1-2-40	20	168		168		7	300				1	TR	" " " " " "	10
8	05	169		169		6	600				10	1	M. Ch. 4 CHURT RED ROSS	10
8	15			170			250				1	TR	" " " " " "	12
8	40	171		171	1	1	6	600			10	1	" " " " " "	12
9	-	172		172			5	450			5	TR	" " " " " "	10
9	20	173		173	1		6	450			1	TR	" " " " " "	10
9	35	174		174	1		7	400			1	TR	" " " " " "	10
9	55			175			350				0	0	" " " " " "	12

DEPTH	VOLUME	TIME LOG
Soil	Calculated 51.85 cu.ft	Moving
Gravel 169'	Measured 41.38 cu.ft	Drilling
Bedrock 169'	Core 23.78 cu.ft.	Pulling 8.42 50. MI.
Water Level	CREW	Delays
	Driller Mr. G. Scott	Total
Est. Wt. Gold 138-171 12 mg nr 19	Panner Mr. Hulse	
Wt. Gold 182.8	Mgs. Total	Constant Used
CALCULATED DEPTH 169 Ft.	Value Per Cu. Yd. 8.87	
Date		
Location COPPER CANYON	Hole No. G. 17.	





# Greenan Placers, Inc.

## COPPER CANYON

### DRILL HOLE VALUE CALCULATIONS

Line G Hole 13

Drill No. 1.

January 3, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 20	20	0.2272	8.3	0.774	3.41	68.20	3.41
2	20 - 50	30	0.3409	28.3	2.64	7.73	231.80	6.40
3	50 - 83	33	0.3750	63.5	5.92	15.78	520.50	9.89
4	83 -113	30	0.3410	37.7	3.52	10.31	309.30	9.99
5	113-138	25	0.2840	26.0	2.42	8.53	213.20	9.74
6	138-167	29	0.3295	17.5	1.63	4.95	143.50	8.91
7	167-169	2	0.0227	1.5	0.139	6.16	12.30	8.87
TOTAL		169	1.9203	182.8	17.03	8.87		

$$\begin{array}{r}
 182.8 \\
 82 \\
 \hline
 146.24 \\
 36.56 \\
 \hline
 149.896 \\
 135.2 \\
 \hline
 14.696 \\
 135.2 \\
 \hline
 117
 \end{array}$$

REMARKS

0.01136 cu. yds. /ft.  
0.09325 ¢/mg.

copy to WTR  
1/8/40

*Copy*  
**NATOMAS COMPANY**  
**FIELD LOG**

Shoe - 7 1/2  
 Page - 1.

12-20-39

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE Cu in	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
8	25	4	-	4	-			800		1	Tr		Tailings	
8	35	5	-	5	-			9450		1	Tr		F.G. - Cl	10
8	50	6	-	6	-			9450		1	Tr			10
9	-	7	-	7	-			10400		1	Tr		F.G.	10
9	10	8	-	8	-			10450		10	1		✓	10
9	30	9	-	9	-			8600		10	1		✓	10
9	40	10	-	10	-			6450		3	Tr		✓	10
10	05	11	-	11	-			10450		10	1		✓	10
10	25	12	-	12	-			6450		5	Tr		✓	10
10	35	13	-	13	-			10450		10	1		✓	10
11	50	14	-	14	-			9400		5	Tr		✓	10
11	10	15	-	15	-	1	-	500		8	1		✓	10
11	20	16	-	16	-	1	-	550		15	2		✓	10
11	30	17	-	17	-			6450		10	1		✓	10
11	45	18	-	18	-			7400		8	1		✓	10
12	-	19	-	19	-			8450		3	Tr		✓	10
12	15	20	-	20	-			10500		6	1		✓	10
12	40	21	-	21	-	1	-	450		8	1		✓ S	10
1	05	22	-	22	-	1	-	6400		10	1		✓ ✓	10
1	25	23	-	23	-	1	-	450		10	1		✓ ✓	10
1	40	24	-	24	-	1	-	2450		15	2		✓ Cl	10
2	-	25	-	25	-	1	-	400		20	3		✓ ✓	10
2	15	26	-	26	-			10300		20	3		✓ ✓	10
2	30	27	-	27	-			11500		8	1		✓ ✓	10
2	40	28	-	28	1			8400		8	1		✓ ✓	10
2	55	29	-	29	-			10400		30	3		✓ ✓	10
3	10	30	-	30	-			9400		20	2		✓ ✓	10
12/21	8	25	31	-	31	-	1	-	450		3	Tr	✓ ✓	10
8	40	32	-	32	-			10450		8	1		✓ ✓	10
8	55	33	-	33	-			10		3	Tr		✓ M.C.I.	10

DEPTH

VOLUME

TIME LOG

Soil	Calculated	Moving	4 hrs Settling
Gravel	Measured	Drilling	10 Hrs.
Bedrock	Core	Pulling	
Water Level		Delays	
	CREW	Total	
	Driller		M.L. Scott
	Panner		W. Huse
Est. Wt. Gold			
Wt. Gold	Mgs.	Constant Used	

26  
 44.7  
 0-30  
 CALCULATED DEPTH 30 Ft. Value Per Cu. Yd. 12.23

Date 12-20-39

Location

Copper Canyon Hole No. G 15

# DELAYS

FROM	TO	TIME LOST	CAUSE

### GENERAL REMARKS

12/20/39  
7:--A.M. Began Drilling  
Shoe - 7 1/2 in

# NATOMAS COMPANY FIELD LOG

PAGE - 2

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
9	10	34	-	34	-	1	-	400	1	Tr		FG. - M Clay	10	
9	20	35	-	35	1			11500	8	1			10	
9	35	36	-	36	-			10450	6	1			10	
9	55	37	-	37	-	1	-	400	3	Tr			10	
10	10	38	-	38	-			450	2	Tr			10	
10	20	39	-	39	-			11450	8	1			10	
10	40	40	-	39	11			7350	20	2		SM. Cl.	10	
11	10	41	-	41	-	1	-	400	20	2			10	
11	20	42	-	42	1			10400	8	1			10	
11	35	43	-	43	-	1	2	400	8	1			10	
12	10	44	-	44				10400	3	Tr			10	
12	20	45	-	45	-			11400	8	1		M. Cl.	10	
12	35	46	-	46	-			10450	2	Tr			10	
12	50	47	-	47	-	1	2	400	6	1			10	
1	10	48	-	48	-			11350	2	Tr			10	
1	25	49	-	48	11	1	1	400	2	Tr			10	
1	40	50	-	50	-			6350	2	Tr			10	
2	30	51	-	50	11	1	3	400	6	1			10	
2	45	52	-	52	-			10450	6	1			10	
2	55	53	-	53	-	1	3	450	2	Tr			10	
3	10	54	-	54	-	1	3	450	6	1			10	
3	25	55	-	55	1			11450	6	1			10	
3	40	56	-	56	-			10500	3	Tr			10	
4	-	57	-	57	1	1	-	400	2	Tr		FG. - Sm. S.	10	
4	10	58	-	58	1			9450	1	Tr			10	
4	25	59	-	59	-	1	-	450	1	Tr		Sm. Cl.	10	
4	45	60	-	60	-			8400	1	Tr			10	
8	15	Pumped Blanket							3	Tr		T.		
8	55	61	-	60	11			10300	8	1		FG. - Sm. Cl.	10	
9	10	62	-	62	1			8300	2	Tr			10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	10 Hrs.		
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller	M. L. Scott	Total	
Est. Wt. Gold	16	Panner	W. Huse		
Wt. Gold	22.5	Mgs.		Constant Used	
	30-60				
CALCULATED DEPTH	30	Ft.		Value Per Cu. Yd.	6 15
Date	12/21/39				
Location	Copper Canyon		Hole No.	G 15	

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9 25	63	-	63	-		10 400			6	1		F.G. - Sm Cl.	10	
9 40	64	-	63	11		10 300			6	1		✓ ✓	10	
9 55	65	-	65	-	1	1 300			2	Tr		M.Cl.	10	
10 10	66	-	66	1	1	450			1	Tr		✓ ✓	10	
10 20	67	-	67	-		7 350			1	Tr		✓ Cl	10	
10 35	68	-	68	-		7 450			1	Tr		✓ ✓	10	
10 50	69	-	69	-		7 350			1	Tr		✓ ✓	10	
11 05	70	-	70	-		7 350			2	Tr		✓ ✓	10	
11 25	71	-	71	-		10 350			6	1		✓ ✓	10	
11 40	72	-	72	-	1	450			20	2		✓ ✓	10	
12 -	73	-	73	1		10 250			8	1		✓ ✓	10	
12 15	74	-	74	-		8 300			6	1		✓ ✓	10	
12 35	75	-	75	1		10 350			20	2		✓ ✓	10	
12 50	76	-	76	-		10 350			10	1		✓ ✓	10	
1 05	77	-	77	-		6 400			18	2		✓ ✓	10	
1 20	78	-	78	-		8 400			18	2		✓ ✓	10	
1 35	79	-	79	-		9 400			10	1		✓ ✓	10	
1 50	80	-	80	-		8 350			3	Tr		✓ ✓	10	
2 15	81	-	81	-		9 450			8	1		✓ ✓	10	
2 30	82	-	82	-		10 400			8	1		✓ ✓	10	
2 40	83	-	83	-		10 300			10	1		✓ ✓	10	
2 50	84	-	84	-		11 350			2	Tr		Cl.	10	
3 05	85	-	85	-		10 400			8	1		F.G. - Cl	10	
3 20	86	-	86	-		7 400			2	Tr		✓ ✓	10	
3 35	87	-	87	1		8 350			8	1		✓ ✓	10	
3 55	88	-	88	-	1	350			8	1		✓ ✓	10	
4 05	89	-	89	-	8	450			8	1		✓ ✓	10	
4 30	90	-	90	-		10 400			10	1		✓ ✓	10	
8 10	Pumped Blanket										0 0			-
8 35	91	-	91	-	1	3 300			3	Tr		✓ ✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	10 Hrs.		
Bedrock	Core	Pulling			
Water Level		Delays			
CREW					
	Driller	M.H. Scott		Total	
	Panner	W. Huse			
Est. Wt. Gold	24				
Wt. Gold	30.0	Mgs.	Constant Used		
CALCULATED DEPTH		30	Ft.	Value Per Cu. Yd.	8 21
Date	12/22/39				
Location	Copper Canyon				Hole No. G15

# NATOMAS COMPANY FIELD LOG

PAGE 4

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3				
9	-	92	-	92	1	-	350		10	1			F.G. - Cl	10	
9	15	93	-	93	-	7	350		10	1			✓ ✓	10	
9	35	94	-	94	-	1	350		2	Tr			✓ ✓	10	
10	-	95	-	95	1	8	350		10	1			✓ ✓	10	
10	20	96	-	96	-	10	500		3	Tr			✓ ✓	10	
10	45	97	-	97	-	8	350		2	Tr			✓ ✓	10	
11	-	98	-	97	11	7	350		1	Tr			✓ ✓	10	
11	15	99	-	99	-	7	400		1	4	2		✓ ✓	10	
11	35	100	-	100	-	8	350		1	100	10		✓ ✓	10	
12	30	101	-	101	-	10	350		1	100	11		✓ ✓	10	
12	45	102	-	102	-	11	350		5	0	5		✓ ✓	10	
1	-	103	-	103	-	9	350		4	0	4		✓ ✓	10	
1	15	104	-	104	1	7	600		2	Tr			✓ ✓	10	
1	30	105	-	105	-	9	450		2	Tr			✓ ✓	10	
1	45	106	-	106	1	8	350		1	Tr			✓ ✓	10	
2	05	107	-	107	-	8	300		1	Tr			✓ ✓	10	
2	20	108	-	108	-	8	400		1	Tr			✓ ✓	10	
2	35	109	-	109	1	11	600		1	Tr			✓ ✓	10	
2	45	110	-	110	-	8	350		3	Tr			✓ ✓	10	
3	05	111	-	111	1	10	400		2	Tr			✓ ✓	10	
3	20	112	-	112	-	10	350		2	Tr			F.G. - Sm. Churt	10	
3	35	113	-	113	-	1	350		1	Tr			✓ ✓	10	
3	55	114	-	114	-	8	500		0	0			Churt - Sm. F.G.	10	
4	10	115	-	115	-	8	400		1	Tr			✓ ✓	10	
4	20	116	-	116	-	7	600		0	0			F.G. - Sm. Churt	10	
4	40	117	-	117	-	8	350		0	0			✓ ✓	10	
7	40	Pumped Blanket													
8	10	118	-	118	-	10	300		7	1			Sm. Cl	10	
8	30	119	-	119	-	7	450		3	Tr			✓ ✓	10	
8	55	120	-	120	-	6	300		3	Tr			✓ ✓	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	10 Hrs.		
Bedrock	Core	Pulling			
Water Level		Delays			
		CREW			
		Driller	M. L. Scott	Total	
		Panner	W. Huse		
Est. Wt. Gold	35	Constant Used			
Wt. Gold	48.6				
	90-117				
CALCULATED DEPTH	27 Ft.	Value Per Cu. Yd.	14 75		
Date	12-23-39				
Location	Copper Canyon	Hole No.	G 15		

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
9	10	121	-	121	-	7	400		1	Tr		F.G. - Cl	10	
9	30	122	-	122	1	10	350		1	Tr		✓ ✓	10	
9	50	123	-	122	11	8	350		0	0		✓ ✓	10	
10	15	124	-	124	1	8	450		0	0		✓ ✓	10	
10	25	125	-	125	-	7	550		0	0		✓ ✓	10	
10	45	126	-	126	-	8	500		0	0		✓ ✓	10	
11	10	127	-	127	-	7	450		0	0		✓ ✓	10	
11	30			128	-		500		0	0		Bed Rock Chert	12	
11	50			129	-		450		0	0			24	
12/20	8	30		130	-		500		1	Tr		✓	36	
8	45			131	-		450		1	Tr		✓	48	
9	30			132	-		450		3	Tr		✓	60	
11	10			133	-		450		1	Tr		✓	72	
11	30			134	-		350		0	0		✓	84	
12	-			135	-		500		0	0		✓	96	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	3 Hr. 5 min		
Bedrock	Core	Pulling	5 Hr.		
Water Level		Delays	1 Hr. 55 min		
		CREW			
	Driller	M.G. Scott	Total		
	Panner	W. Huse			
Est. Wt. Gold					
Wt. Gold	2.8	Mgs.	Constant Used		
	117-128				
CALCULATED DEPTH	11	Ft.	Value Per Cu. Yd.	2 <sup>10</sup>	
	Date	12/24/39			
Location	Copper Canyon	Hole No.	G 15		

# DELAYS

12-26-39

FROM	TO	TIME LOST	CAUSE
7-	8-	1-	Starting Motor
9 20	9 50	30	Lost Sand Pump
9 50	10 15	25	Repair Sand Pump

**GENERAL REMARKS**

12/26/39

12:00 M. Began Pulling Pipe



# NATOMAS COMPANY FIELD LOG

*PAGE 6*

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3			

DEPTH	VOLUME	TIME LOG
Soil	Calculated <i>39.25 cu ft.</i>	Moving
Gravel <i>128</i>	Measured	Drilling
Bedrock <i>128</i>	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M.H. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Huse</i>	
Wt. Gold <i>148.6</i>	Mgs.	Constant Used
CALCULATED DEPTH <i>128</i>	Ft.	Value Per Cu. Yd. <i>952</i>
Date	<i>12/28/39</i>	
Location	<i>Copper Canyon</i>	Hole No. <i>G 15</i>



# NATOMAS COMPANY FIELD LOG

Page 1

12-14-39

Shot. 7/4 in.

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
11	20	5		5				900			1	TR	FINE GRAVEL	
11	45	6		6				950			1	TR	" "	
12	45	7		7				400			1	TR	" "	
1	-	8		7	11			6 350			1	TR	" "	10
1	10	9		8	11			6 400			5	1	" "	10
1	35	10		10				6 450			5	1	" "	10
1	50	11		11	1			8 350			1	TR	" "	10
2	-	12		12				12 450			1	TR	" "	10
2	15	13		12	11			7 400			8	1	" "	10
2	25	14		13	11			6 400			2	TR	" "	10
2	35	15		14	11			6 400			1	TR	" "	10
2	55	16		16				7 650			7	1	" "	10
3	15	17		17	1			1 - 450			10	1	" "	10
3	30	18		18	1			1 - 450			15	2	" "	10
3	45	19		19	1	1		1 450			15	2	" "	10
4	-	20		20	1			1 - 450			10	1	" "	10
4	25	21		21				9 450			2	TR	" "	10
5	-	22		22				9 500			1	TR	" "	10
12-15	7	50	23	23				11 450			1	TR	" 5 Y CLAY	10
8	05	24		23	11			10 350			1	TR	" "	10
8	20	25		24	11			8 500			1	TR	" "	10
8	35	26		26				10 450			1	TR	" "	10
8	50	27		27				12 350			1	TR	" "	10
9	05	28		27	11			7 450			1	TR	" "	10
9	20	29		29				8 400			0	0	" "	10
9	30	30		30				9 450			1	TR	" "	10
10	-	31		31				8 400			2	TR	" "	10
10	15	32		31	11			8 450			1	TR	" "	10
10	30	33		33				9 450			5	1	" " MUCK CLAY	10
10	45	34		34				9 500			5	1	" "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving <i>STAKE SETTING UP</i>
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M. E. Scott</i>	Total
Est. Wt. Gold <i>10</i>	Panner <i>Mr. Hume</i>	
Wt. Gold <i>28</i>	Mgs.	Constant Used <i>3</i>
<i>0-22</i>	CALCULATED DEPTH <i>22</i> Ft.	Value Per Cu. Yd. <i>10.49</i>
	Date <i>12/14/39</i>	
Location <i>COPPER CANYON</i>	Hole No. <i>G. 17</i>	
<i>Copy to W&amp;H</i>		

# DELAYS

FROM	TO	TIME LOST	CAUSE

**GENERAL REMARKS** 12-14-38      Shoe - 7 1/4 in.

REGAN DRILLING - 10-140 A.M.

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
11	-	35		35		6		500		3	1		FINE G. & CLAY	10
11	15	36		36		8		450		2	TR			10
11	25	37		37		8		400		8	2			10
11	35	38		37	11	8		450		10	2			10
11	50	39		38	11	9		400		10	2			10
12	10	40		40		9		450		5	1			10
12	55	41		41		10		500		5	1			10
1	05	42		42	1	6		550		5	1			10
1	15	43		43	1	10		200		5	1			10
1	25	44		44		10		550		5	1			10
1	35	45		45		9		500		10	2			10
1	55	46		46		10		450		5	1			10
2	05	47		47		9		400		1	TR			10
2	20	48		48		7		450		2	TR			10
2	30	49		49		7		400		5	1			10
2	45	50		50		7		400		5	1			10
3	05	51		51	1	-		400		15	2			10
3	20	52		52		9		450		2	TR			10
3	35	53		53		7		450		6	1			10
3	50	54		54		6		500		6	1			10
4	-	55		55		6		400		3	TR			10
4	15	56		56		7		400		8	1			10
4	25	57		56	11	7		450		5	1			10
4	50	58		57	11	8		450		5	1			10
7	40	59		59	1	7		350		15	2			10
8	-	60		60		8		400		15	2			10
8	30	61		60	11	10		350		15	2			10
9	-	62		62		11		350		15	2			10
9	10	63		63		10		350		20	3			10
9	25	64		64		9		350		10	2			10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level		CREW		Delays	
		Driller <i>L. Lynch</i>		Total	
Est. Wt. Gold <i>26</i>		Panner <i>W. Bruce</i>			
Wt. Gold <i>28</i>	Mgs.	Constant Used			
<i>22-58</i>					
CALCULATED DEPTH	<i>36</i> Ft.	Value Per Cu. Yd.	<i>10.03</i>		
Date	<i>12/15/39</i>				
Location	<i>COPPER CANYON</i>	Hole No.	<i>G. 17</i>		

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
9	40	65		65		9	450		10	2		FINE & Y CLAY	10	
10	-	66		66		10	300		10	2		" " "	10	
10	10	67		67		9	400		20	3		" " "	10	
10	30	68		68		9	350		8	1		" " "	10	
10	45	69		68	11	9	300		8	1		" " "	10	
11	-	70		70		8	300		8	1		" " "	10	
11	25	71		71		8	250		9	1		" " "	10	
11	50	72		71	10	10	200		6	1		" " "	10	
12	05	73		72	11	9	300		6	1		" " "	10	
12	25	74		74		10	350		2	TR		" " "	10	
12	40	75		75		8	300		6	1		" " "	10	
12	55	76		76		10	300		5	1		" " "	10	
1	10	77		77		7	400		6	1		" " "	10	
1	25	78		78		8	400		2	TR		" " "	10	
1	40	79		79		9	350		5	1		" " "	10	
2	-	80		80		8	350		15	2		" " "	10	
2	45	81		81		10	350		5	1		" " "	10	
3	-	82		82		10	350		5	1		" " "	10	
3	20	83		83		8	350		5	1		" " "	10	
3	45	84		84		10	300		2	TR		" " "	10	
4	05	85		85		8	350		2	TR		" " "	10	
4	40	86		86		10	350		8	1		" " "	10	
12-17	7	45		87		10	400		7	1		" " "	10	
8	-	88		88		6	450		7	1		" " "	10	
8	20	89		89		7	400		6	1		" " "	10	
8	40	90		90		6	350		15	2		" " "	10	
9	15	91		91		9	300		8	1		" " "	10	
9	35	92		92		10	300		6	1		" " "	10	
9	50	93		92	11	10	300		3	TR		" " "	10	
10	10	94		94		9	300		2	TR		" " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>L. Lynch</i>	Total
Est. Wt. Gold 36	Panner <i>W. Muse</i>	
Wt. Gold 40	Mgs.	Constant Used
58-86		
CALCULATED DEPTH 28 Ft.		Value Per Cu. Yd. 11.73
Date 12/16/39		
Location COPPER CANYON		Hole No. 4.17

# NATOMAS COMPANY FIELD LOG

Page - 4

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
10	20	95		95		9	350			8	1	FINE G. & SM. CLAY	10	
10	45	96		98		9	400			3	TR	" " " "	10	
11	-	97		97		7	301			3	TR	" " " "	10	
11	20	98		98		10	250			20	H	" " " "	10	
11	35	99		99		11	350			20	3	" " " "	10	
11	55	100		100		11	350			8	1	" " " "	10	
12	20	101		101		6	200			8	1	" " " "	10	
12	35	102		102		10	400			3	TR	" " " "	10	
12	50	103		102	11	9	250			1	TR	" " " "	10	
1	10	104		104		8	200			1	TR	" " " "	10	
1	25	105		104	10	10	200			1	TR	" " " "	10	
1	45	106		106		10	350			6	1	" " " "	10	
2	05	107		106	10	10	300			2	TR	" " " "	10	
2	20	109		109		13	300			1	TR	CLAY	10	
2	30	109		109		10	300			1	TR	"	10	
2	50	110		110		11	300			1	TR	FINE G. & SM. CLAY	10	
3	10	111		111		10	300			5	1	" " " "	10	
3	25	112		112		10	300			5	1	" " " "	10	
3	40	113		113		7	350			40	5	" " " "	10	
4	20	114		113	11	7	300			25	4	" " " "	10	
4	45	115		115		8	350			15	3	" " " "	10	
5	30	116		115	11	11	300			5	1	" " " "	10	
9	05	117		117		8	500			6	1	" " " "	10	
9	20	118		118		9	400			6	1	" " " "	10	
9	30	119		119		6	400			3	TR	" " " "	10	
9	50	120		120		6	400			5	1	" " " "	10	
10	40	121		120	10	1	800			5	1	" " " "	10	
11	-	122		121	11	9	250			5	1	" " " "	10	
11	30	123		123		9	200			3	TR	" " " "	10	
11	50	124		124		8	250			5	1	" " " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>B. Lynch</i>	Total
Est. Wt. Gold 34	Panner <i>W. Huse</i>	
Wt. Gold 53	Mgs.	Constant Used
86-115		
CALCULATED DEPTH 29 Ft.		Value Per Cu. Yd. 15.00
Date 12/17/39		
Location COPPER CANYON		Hole No. G-17

# DELAYS

FROM	TO	TIME LOST	CAUSE
7 -	8 -	1 -	GETTING ENGINE STARTED
8 35	8 50	15	ENGINE TROUBLE
11 45	12 35	50	BIT STUCK.

**GENERAL REMARKS** 12-18-39

8:35 A.M. GAS. LINE TROOZ UP  
 8:50 - " " BEGAN DRILLING  
 11:45 " " BIT STUCK.  
 12:35 P.M. BIT LOOSE.



# NATOMAS COMPANY FIELD LOG

Page - 5

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
1	15	125		125		11		200		2	TR	MEDIUM S & G CLAY	4	
1	55	126		126		11		200		5	1	" " "	10	
2	30	127		127		8		200		8	1	" " "	10	
3	-	128		128		6		400		20	2	BED ROCK	10	
3	15			129				400		1	TR	" "	12	
3	30			130				500		0	0	" "	24	
3	45			131				450		0	0	" "	36	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling		7 Hrs	
Water Level		Delays			
		CREW			
	Driller	G. Lynch		Total	
Est. Wt. Gold	11	Panner	700		
Wt. Gold	27.5	Mgs.		Constant Used	
115-127				Value Per Cu. Yd.	18.78
CALCULATED DEPTH		12	Ft.		
Date					
Location			COPPER CANYON		
			Hole No. G-17		

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			

<b>DEPTH</b>	<b>VOLUME</b> ✓	<b>TIME LOG</b>
Soil	Calculated 38.95 Cu. Ft.	Moving
Gravel 127	Measured 46,650 26.99 cu. Ft.	Drilling
Bedrock 127	Core (3063") 15.94 cu. Ft.	Pulling 7 1/2 hrs
Water Level	<b>CREW</b>	Delays
	Driller M.L. Scott	Total
	Panner W. Huse	
Est. Wt. Gold		
Wt. Gold 192.5	Mgs.	Constant Used
CALCULATED DEPTH 127 Ft.		Value Per Cu. Yd. 12.44
	Date Dec. 19, 1939	
Location		Hole No. G 17



# NATOMAS COMPANY FIELD LOG

Sheet 1

10:00 A.M. TIME OF PUMPING	DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
	Pipe		Pump'g				SIZE					
	Hrs	Min	Ft	In			Ft	In	1			
11 15	4	-	4	10	-	1500						12
	5		6									
	6			1								
11 55	7		6	10	7	1100					Fine Gravel	10
12 07	8		8		9	700					FG. - clay	10
12 22	9		8	11	9	500					✓	10
12 40	10		10		8	350			Tr.	✓		10
1 00	11	-	11	-	6	500				✓	clay	10
1 17	12	-	11	11	11	500				✓		10
1 27	13	-	13	-	8	350				✓		10
1 37	14	-	13	10	1	350				✓		10
1 50	15	-	15	1	8	350				✓		10
2 00	16	-	15	10	10	225				✓	clay	10
2 13	17	-	17	-	8	400				✓		10
2 25	18	-	18	-	8	400			Tr.	✓	Sand	10
2 38	19	-	19	-	7	350			Tr.	✓	✓	10
2 53	20	-	20		9	300			Tr.	✓	✓	10
3 15	21		21		9	350			Tr.	✓	✓	10
3 33	22	-	22	-	7	500			Tr.	✓	✓	10
3 50	23	-	23	-	6	350			Tr.	✓	✓	10
4 -	24	-	24	1	9	350			Tr.	✓	✓ Clay	10
4 15	25		25	-	6	250			Tr.	✓	✓	10
4 30	26	-	26	1	6	300			4 1	✓	✓	10
12/1/59	8					Blanket						
8 15	27		27	1	9	300			10 1		FG. Sand.	10
8 30	28	-	28	1	6	450			30 3	✓	✓	10
8 45	29	-	29	1	6	400			50 7	✓	✓ Clay	10
9 -	30	-	30	-	7	450			50 6	✓	✓ ✓	10
9 35	31	-	31	-	6	400			30 3	✓	✓	10
9 50	32	-	32		7	450			30 3	✓	✓	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller M.L. Scott	Total
Est. Wt. Gold	Panner M.H. Bertolino	
Wt. Gold	Mgs.	Constant Used
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.
Date		

Location *Copper Canyon* Hole No. *G 19*

Copy to W.H.R.



# DELAYS

FROM	TO	TIME LOST	CAUSE

### GENERAL REMARKS

Diameter Drive Shoe  $7\frac{5}{16}$ "

# NATOMAS COMPANY FIELD LOG

Sheet 2

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
10	-	33	-	33	-	8	400		15	1		FG. Sand	10	
10	15	34	-	33	11	8	400		5	Tr.	✓	✓	10	
10	30	35	-	35	1	8	400		3	Tr.	✓	✓ clay	10	
10	45	36	-	36	-	10	250			Tr.	✓		10	
10	55	37	-	37	1	8	400			Tr.	✓		10	
11	05	38	-	38	1	8	400			Tr.	✓		10	
11	20	39	-	38	11	10	900			Tr.	✓		10	
11	35	40	-	40	1	10	450			Tr.	✓	clay	10	
12	00	41	-	40	11	7	250			Tr.	✓		10	
12	25	42	-	42	-	8	400		10	1	✓		10	
12	35	43	-	42	11	6	350		4	Tr.	✓	clay	10	
12	45	44	-	44	-	8	350		30	1	✓	✓	10	
1	-	45	-	45	-	7	350		20	1	✓	✓	10	
1	10	46	-	46	1	8	350		10	1	✓	✓	10	
1	20	47	-	47	1	8	400		30	2	✓	✓	10	
1	30	48	-	48	-	9	300		40	3	✓	✓	10	
1	45	49	-	49	1	9	450		20	2	✓	✓	10	
2	00	50	-	50	1	7	300		20	2	✓	✓ M.G.	10	
2	25	51	-	51	1	7	450		10	1	✓	✓	10	
2	40	52	-	52	1	8	450		30	2	✓	✓	10	
2	50	53	-	53	-	7	350		15	1	✓		10	
3	-	54	-	54	-	8	350		10	1	✓		10	
3	15	55	-	55	1	8	350		20	2	✓		10	
3	30	56	-	56	-	7	350		30	2	✓	clay	10	
3	45	57	-	56	11	7	350		40	3	✓	✓	10	
3	50	58	-	58	-	9	500		30	2	✓	✓	10	
4	05	59	-	59	-	10	450		20	1	✓	✓	10	
4	20	60	-	60	1	8	350		20	1	✓	✓	10	
12/10/21		7:45				Blanket								
8	-	61	-	61	1	7	250		3	Tr.		fine G. Clay	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M.L. Scott</i>	Total
Est. Wt. Gold	Panner <i>M.H. Bertolino</i>	
Wt. Gold	<i>48</i> Mgs.	Constant Used
<i>0-60</i>	CALCULATED DEPTH <i>60</i> Ft.	Value Per Cu. Yd. <i>6.57</i>
Date		
Location <i>Copper Canyon</i>	Hole No. <i>G 19.</i>	

# NATOMAS COMPANY FIELD LOG

SHEET - 3

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. OF COLORS			TOT. EST. MGS.	FORMATION
		Pipe		Pump'g					Size 1	Size 2	Size 3		
Hrs	Min	Ft	In	Ft	In	Ft	In						
8	15	62		62		8	301		2	TR		FINE G. & CLAY	70
8	25	63		63	11	7	400		2	TR		" " "	10
8	40	64		64		6	500		0			" " "	10
8	55	65		65	11	9	350		2	TR		" " "	10
9	10	66		66	1	7	500		4	TR		" " "	10
9	25	67		67		8	350		10	1		" " "	10
9	40	68		68	11	9	400		10	1		" " "	10
9	50	69		69	1	7	550		5	TR		" " "	10
10	10	70		70		10	350		3	TR		" " "	10
10	45	71		71		7	350		3	TR		" " "	10
11	10	72		72	1	6	300		3	TR		" " "	10
11	30	73		73	1	6	300		2	TR		" " "	10
11	50	74		74		6	350		2	TR		COARSE G. & CLAY	10
12	10	75		75	1	7	350		2	TR		" " "	10
12	25	76		76	1	6	450		3	TR		" " "	10
12	40	77		77	1	6	500		0			FINE G. & CLAY	10
12	50	78		78	11	6	250		3	TR		" " "	10
1	10	79		79	11	6	300		3	TR		" " "	10
1	25	80		80		5	350		2	TR		" " "	10
1	45	81		81		6	350		5	TR		" " "	10
2	05	82		82		5	400		2	TR		" " "	10
2	15	83		83		6	350		1	TR		" " "	10
2	30	84		84		5	350		1	TR		" " "	10
2	45	85		85		6	450		1	TR		" " "	10
3	-	86		86		6	350		1	TR		SAND FINE G.	10
3	10	87		87	1	4	500		1	TR		" " "	10
3	25	88		88	11	4	450		1	TR		" " "	10
3	40	89		89		6	450		0			" " "	10
4	-	90		90	11	6	500		1	TR		" " "	10
4	15	91		91		6	450		2	TR		" " "	10

DEPTH

VOLUME

TIME LOG

Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M.L. SCOTT</i>	Total
Est. Wt. Gold	Panner <i>W. Huse</i>	
Wt. Gold	20 Mgs.	Constant Used

60-90  
CALCULATED DEPTH 30 Ft. Value Per Cu. Yd. 5.84

Date

Location

COPPER CANYON

Hole No.

G. 19.

# NATOMAS COMPANY FIELD LOG

SHEET-4

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. OF COLORS			TOT. EST. MGS.	FORMATION	97. 100.
		Pipe		Pump'g					Size 1	Size 2	Size 3			
Hrs	Min	Ft	In	Ft	In	Ft	In							
4	30	92		92		4	400		3	TR		FINE G & CLAY	10	
12-9-39	7	50		93		6	850		1	TR		" " "	10	
	9	15		94	11	6	350		8	1		" " "	10	
	9	48		95		7	450		15	2		" " "	10	
	9	15		96		7	550		15	2		" " "	10	
	9	40		97	11	6	650		8	1		" " "	10	
	10	-		98		6	650		20	2		" " "	10	
	10	30		99	11	6	600		8	1		" " "	10	
	10	45		100		6	350		5	TR		" " "	10	
	11	20		101	11	5	500		10	1		" " "	10	
	11	35		102		4	400		5	TR		" " "	10	
	11	50		103		7	350		2	TR		" " "	10	
	12	10		104	11	7	400		3	TR		" " "	10	
	12	25		105		6	450		2	TR		" " "	10	
	1	-		106		7	400		2	TR		" " "	10	
	1	50		107		4	400		10	1		QUARTZ BOULDER	12	
	2	05		108		4	400		5	TR		" " "	12	
	2	20		109		3	300		2	TR		FINE G. & SM. CLAY	12	
	3	-		110		8	900		20	2		" " "	10	
	3	30		111		6	400		10	1		" " "	10	
	3	45		112		5	450		10	1		" " "	10	
	4	-		113		6	550		20	2		" " "	10	
	4	30		114		6	450		3	TR		" " "	10	
12/10/39	7	50		115		6	450		2	TR		FINE G	10	
	8	15		116		9	450		5	TR		" " "	10	
	8	40		117		6	500		2	TR		" " SM. CLAY	10	
	8	53		118	11	6	500		2	TR		" " "	10	
	9	10		119	1	8	550		10	1		" " "	10	
	9	25		120		6	500		20	2		" " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M. G. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Huse</i>	
Wt. Gold	39 Mgs.	Constant Used
CALCULATED DEPTH	90 - 113 23 Ft.	Value Per Cu. Yd. 13.94
Date		
Location	COOPER CANYON	Hole No. G-19



DELAYS

FROM	TO	TIME LOST	CAUSE

GENERAL REMARKS

12-9-39

CHECKED CABLE HUNCHES SHORT

# NATOMAS COMPANY FIELD LOG

SHEET - 5

DRILLED BELOW

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. OF COLORS			TOT. EST. MGS.	FORMATION	
		Pipe		Pump'g					Size 1	Size 2	Size 3			
Hrs	Min	Ft	In	Ft	In	Ft	In							
9	50	121		121		6	450			20	2		MEDIUM G. F. SM. CLAY	10
10	05	122		122		6	450			20	2		" " " "	10
10	20	123		123		7	450			15	2		" " " "	10
10	40	124		124		8	400			10	1		FINE G. SAND F. SM. CLAY	10
11	05	125		125		9	450			2	TR		" " " "	10
11	25	126		126	11	5	400			5	1		" " " "	10
11	45	127		126	11	8	450			2	TR		" " " "	10
12	-	128		127	11	8	400			6	1		" " " "	10
12	15	129		129		6	450			2	TR		" " " "	10
12	30	130		130		10	450			1	TR		" " " "	10
12	45	131		131		8	450			3	TR		" " " "	10
1	05	132		131	11	8	300			1	TR		" " " "	10
1	25	133		132	11	7	450			1	TR		" " " "	10
1	45	134		134		10	400			1	TR		" " " "	10
2	-	135		134	11	7	400			1	TR		" " " "	10
2	10	136		136		7	350			1	TR		" " " "	10
2	25	137		136	11	8	400			2	TR		" " " "	10
2	40	138		138		7	400			14	2		" " " "	10
3	05	139		138	11	7	400			10	1		" " " "	10
3	20	140		140		8	350			20	2		" " " "	10
3	35	141		141		8	400			10	1		" " " "	10
3	55	142		142		7	450			3	TR		" " " "	10
4	10	143		143	1	6	450			1	40	5	" " " "	10
4	35	144		144		7	450			1	30	5	" " " "	10
12-11	8	25		145	1	8	350			30	7		" " " "	10
	8	45		146		8	350			15	5		" " " "	10
	9	05		147		8	400			7	1		" " " "	10
	9	20		148		6	550			30	4		" " " "	10
	9	40		149	1	6	450			10	2		" " " "	10
	10	30		149	11	6	450			15	2		" " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>Mr. G. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Huse</i>	
Wt. Gold	122 Mgs.	Constant Used
	113 - 144	
CALCULATED DEPTH	31 Ft.	Value Per Cu. Yd. 32.32
Date		
Location	COPPER CANYON	Hole No. G-19

# NATOMAS COMPANY FIELD LOG

SHEET - 6

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. OF COLORS			TOT. EST. MGS.	FORMATION	DRILLED BY
		Pipe		Pump'g					Size 1	Size 2	Size 3			
Hrs	Min	Ft	In	Ft	In	Ft	In							
10	50	151		151		6	450			15	2		FINE G. SAND 7 3/4" CLAY	10
11	10	152		152		6	450			25	3		" " " " " "	10
11	40	153		153	1	6	400			10	1		FINE G. SAND	10
12	-	154		154	1	7	400			15	2		" " " " 9 3/4" CLAY	10
12	20	155		155		6	450			15	2		" " " " " "	10
12	45	156		156	1	6	400			10	1		" " " " " "	10
1	-	157		157	1	6	400			15	2		" " " " " "	10
1	30	158		158	1	7	450			15	2		" " " " " "	10
2	-	159		159		6	400			40	5		" " " " " "	10
2	25	160		160		6	500			40	5		" " " " " "	10
2	50	161		161		6	450			25	3		" " " " " "	10
3	10	162		162		6	550			10	1		" " " " " "	10
3	40	163		163	1	6	600			50	10		" " " " " "	10
3	55	163	6	163	6	6	400			25	5		BED ROCK	10
7 2/12	4	35		166		7	50	0	0	0	0		" "	
	8	45		167		5	00	0	0	0	0		" "	42
	9	10		168		4	50	0	0	0	0		" "	56

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel 163'	Measured	Drilling
Bedrock 163'	Core	Pulling 7 Hrs
Water Level	CREW	Delays
	Driller <i>M. S. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Huse</i>	
Wt. Gold 268 Mgs.	Constant Used	
144-163 CALCULATED DEPTH 19 Ft.	Value Per Cu. Yd. 115.69	
Date		
Location COPPER CANYON	Hole No. G-19	

# DELAYS

FROM	TO	TIME LOST	CAUSE

**GENERAL REMARKS**

Average Value G19 11730  
 Gold @ 0.09325¢ per. mg.  
 Drill Hole 0.01136 cu. yds per foot  
 Value surface 1.27  
 Total 11730  
 2.667 per ton 3  
 2.59 g  
 Drill Size 3 1/2" diameter

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			

DEPTH	VOLUME	TIME LOG
Soil	Calculated 50.00 cu. ft.	Moving
Gravel 163'	Measured 39.07 cu. ft.	Drilling
Bedrock 163'	Core 92.6' 16.67 cu. ft.	Pulling
Water Level		
	CREW	
	Driller <i>M.L. Scott</i>	Total
Est. Wt. Gold	Panner <i>W. Huss</i>	
Wt. Gold 497	Mgs.	Constant Used
CALCULATED DEPTH 163	Ft.	Value Per Cu. Yd. 25.09
Date	<i>Dec. 12, 1939</i>	
Location <i>Copper Canyon</i>	Hole No. <i>G 19</i>	

NAMMAS COMPANY

**Greenan Placers, Inc.**  
**COPPER CANYON**

DRILL HOLE VALUE CALCULATIONS

Line G Hole 19

December 17, 1939.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0-60	60	0.682	48	4.48	6.57	394.20	6.57
2	60-90	30	0.341	20	1.87	5.84	175.20	6.32
3	90-113	23	0.261	39	3.64	13.94	320.62	7.87
4	113-144	31	0.352	122	11.38	32.32	1001.92	13.31
5	144-163	19	0.216	268	24.99	115.69	2198.11	25.09
TOTAL		163	1.852	497	46.36	25.03	4090.05	25.09

REMARKS

Drill holes @ 0.01136 cu. yds. per foot  
Gold @ 0.09325 ¢ per milligram.

*copy to WTR 12/19/39*

**FIELD LOG**  
 UNDERGROUND WORKINGS  
 SHAFT No. \_\_\_\_\_ LOCATION *Copper Canyon*

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
Feb. 1940	Cross Cut #1	1		"			Wet				
	10 Md. C.G. Sm. Cl.	2	1	54	6x12	2.25	3.00	10	8.42	South	Side
	✓	3	2	54	✓	2.25	3.37	35	26.1		✓
	✓	4	3	60	✓	2.50	3.10	74	59.3		✓
11	Drift #2	5									
	F. Md. C.G. Sm. Cl.	6	1	60	6x12	2.50	3.37	127	94.9	Pillar Side	Cut
	✓	7	2	35	✓	1.46	1.50	260	437.0	East Side-Drift.	
12	✓	8	3	46	✓	1.92	3.00	348	292.2		✓
	Cross Cut #3	9									
12	S. Md. C.G. Sm. St. Cl.	10	1	46	6x12	1.92	2.25	290	326.0	North	Side
	✓	11	2	42	✓	1.75	2.26	193	214.6		✓
12	Drift #4	12									
	F. Md. C.G. Sm. St. Cl.	13	1	45	6x12	1.90	3.00	285	241.0	Pillar Side	Cut.
14	Cross Cut #5	14									
	F. Md. C.G.	15	1	46	6x12	1.92	3.00	298	250.4	South	Side
15	Cross Cut #6	16									
	F. Md. C.G. Sm. Cl.	17	1	60	6x24	5.00	5.25	250	119.9	South	Side
15	Cross Cut #7	18									
	F. Md. C.G. Sm. Cl.	19	1	41	6x24	3.41	4.50	566	316.0	South	Side
16	Cross Cut #8	20									
	F. Md. C.G. Sm. Cl.	21	1	96	6x12	4.00	4.50	190	106.1	South	Side
	✓	22	2	54	✓	2.25	3.00	168	141.2		✓
	✓	23	3	58	✓	2.42	2.60	450	436.0		✓
17	Cross Cut #9	24									
	F. Md. G. Sm. Cl.	25	1	56	6x12	2.33	3.00	75	63.0	South	Side
17	Drift #10	26									
	F. Md. G. Sm. Cl.	27	1	52	6x12	2.16	2.80	170	152.5	South	Side
		28									
		29									
		30									

NOTES:

DEPTH
VALVE
W. L.
B. R.

**FIELD LOG**  
UNDERGROUND WORKINGS

SHAFT No. \_\_\_\_\_ LOCATION *Copper Canyon*

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
Feb. 1940	Drift #11	1					Wet.					
	18 F.Md.G.Sm Cl	2	1 77	6x12	3.21	2.50	245	246.2	South	Side		
	✓	3	2 76	✓	3.16	3.00	105	88.2	North	Side		
	✓	4	3 54	✓	2.25	2.42	98	101.8	South	Side		
	✓	5	4 48	✓	2.00	1.60	68	107.0			✓	
	Cross Cut #12	6										
19	F.Md.G.Sm Cl	7	1 52	6x12	2.16	2.70	102	95.0	South	Side		
	✓	8	2 47	✓	1.96	2.20	160	183.0			✓	
	Shaft #22	9										
20	F.S.Md.G.Cl	10	1 60	6x12	3.50	3.30	200	152.7	N.W	Side	} 38'-43' Levels	
	✓	11	2 60	✓	2.50	3.70	190	129.2	S.E.	✓		
		12										
	Note:	13	Shaft #22 is 48' deep. Bottom of shaft									
		14	undercut with drifts. Only two sides									
		15	fit for samplings									
		16										
		17										
		18										
		19										
		20										
		21										
		22										
		23										
		24										
		25										
		26										
		27										
		28										
		29										
		30										

NOTES: See 100' Scale Map of Underground Workings for location of Sample Cuts.  
Values per cubic yard computed from wet measure

Fanner - Runckle  
Miner - Burner

DEPTH
VALVE
W. L.
B. R.



# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line SHAFT Hole A 9

February 21, 1940.

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0 - 4.5	4.5	4.85	32	2.98	0.614	2.8	0.614
2	4.5- 12	7.5	5.95	82	7.65	1.29	9.6	1.03
3	12 - 24	12	9.53	552	51.7	5.40	64.8	3.22
4	24 - 29	5	3.70	417	38.9	10.5	52.6	4.48
5	29 - 34	5	3.84	8881	828.2	215.6	1078.3	32.5
6	34 - 39	5	4.07	1215	113.3	27.8	139.0	34.5
7	39 - 44	5	3.84	227	21.1	5.49	27.5	31.2
8	44 - 49	5	3.78	485	45.2	12.0	60.0	29.3
9	49 - 54	5	3.84	851	79.4	20.7	103.5	28.5
10	54 - 59	5	3.64	6725	627.1	172.3	864.0	40.7
11	59 - 64	5	3.76	546	50.9	13.5	67.5	38.6
12	64 - 69	5	3.70	262	24.4	6.59	32.9	36.3
13	69 - 74	5	3.79	205	19.1	5.04	25.2	34.1
14	74 - 79	5	3.70	169	15.7	4.24	21.2	32.3
15	79 - 84	5	3.76	282	26.3	6.99	34.9	30.8
16	84 - 89	5	3.76	1398	130.4	34.7	173.5	31.0
17	89-94	5	3.76	870	81.1	21.6	108.0	30.5
18	94 - 99	5	3.92	230	21.4	5.46	27.3	29.2
19	99 -103	4	3.01	438	40.8	13.6	54.4	28.6
20	103-108	5	4.36	445	41.5	9.52	47.6	27.7
21	108-113	5	4.08	430	40.1	9.83	49.2	26.9
TOTAL		113	88.64	24742	2306.85	26.02		

REMARKS

0.09325¢/mg.

4'x6' Shaft

FIELD LOG

SHAFT NO. A9

LOCATION Copper Canyon

DATE	FORMATION	Footage SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
Jan 1940	VES. G. CI	1	2'-10"	2'-10"	"	72	Mg.				
	FS. G. CI	2	1'-8"	4'-6"	59x71	130.9	90 Dry	32	0.61	Placing Collar Set	
		3									
	FS. G. CI	4	0'-10"	5'-4"	"	27					
	VES. G. Sm CI	5	5'-2"	10'-6"	49x63		117 Dry				
	FSG. Sm CI	6	1'-6"	12	"	160.7	60	82	1.29		
		7									
	VESG Sm CI	8	3	15	"		81				
	✓	9	4'-2"	19'-2"	49x63		126 Dry				
	✓	10	4'-10"	24	"	257.3	147	552	5.40		
		11									
25	S. Md. G. CI	12	3'-6"	27'-6"	48x60		81				
26	S. Md. G. Sm CI	13	1'-6"	29	"	100.0	26	417	10.5	Broken Rocker Arm - Long Tom	
		14									
26	CG. S. Sm CI	15	2'-7"	31'-7"	49x61		58				
27	✓	16	2'-5"	34	"	103.8	61	8881	215.6		
		17									
28	Md. G. S. CI	18	3'-3"	37'-3"	51x62		82				
29	Md. & CG. S. CI	19	1'-9"	39'	57x61	109.8	40	1215	27.8		
		20									
29	Md. & CG. CI	21	0'-9"	39'-9"	"		18			Repairs to Long Tom	
30	Md. G. S. CI	22	2'-9"	42'-6"	49x61						
31	S. MG. CI	23	1'-6"	44	"	103.8		227	5.49		
		24									
31	S. MG. CI	25	1'-9"	45'-9"	49x60						
FEB	✓	26	3'-3"	49	"	102.1		485	12.0		
		27									
	1	S. MG. CI	28	0'-8"	49'-8"	49x61					
2	S. Md. G. CI	29	3'-6"	53'-2"	"					Much Clay	
3	S. Md. G. CI	30	0'-10"	54"	"	103.8		851	20.7		

NOTES: Shaft Located over Drill Hole A9 - Dpth 113' - 213'

Panners - Meredith, McCrory, Ardrey

DEPTH
VALVE
W. L.
B. R.

4'x6' Shaft

FIELD LOG

SHAFT NO. A9

LOCATION Copper Canyon

DATE	FORMATION	FOOTING SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
FEB. 1940	S. Md. G. Cl.	1	2'-0"	56'-0"							Much Clay
		2	2'-8"	58'-8"	48"x59"						
		3	0'-4"	59		98.4	6.725	172.3			
		4									
	S. G. St. Cl.	5	2'-11"	61'-11"	48"x61"						
		6	2'-1"	64	48"x61"	101.7	546	13.5			Rocker Arm Broke
		7									
	S. G. Cl.	8	1'-11"	65'-11"	48"x60"						
		9	3'-1"	69	48"x60"	99.8	262	6.59			
		10									
	S. Md. G. Cl.	11	3'-10"	72'-10"	49"x60"						
		12	2'-2"	74'-0"	49"x60"	102.0	205	5.04			
		13									
	S. Md. G. Cl.	14	1'-7"	75'-7"	48"x60"						
	S. G. Cl.	15	3'-5"	79'	48"x60"	100.0	169	4.24			
		16									
	S. M. G. Cl.	17	1'-2"	80'-2"	48"x61"						
		18	3'-2"	83'-4"	48"x61"						Shot Large Boulder
	S. G. Cl.	19	0'-8"	84		101.7	282	6.99			
		20									
	S. G. Cl.	21	3'-3"	87'-3"	48"x61"						
		22	1'-9"	89	48"x61"	101.7	1398	34.7			
		23									
	Md. G. St. Cl.	24	1'-6"	90'-6"	48"x61"						
		25	3'-6"	94	48"x61"	101.7	870	21.6			
		26									
	S. Md. G. St. Cl.	27	0'-4"	94'-4"	49"x62"						
		28	4'-2"	98'-6"	49"x62"						
		29	0'-6"	99	49"x62"	105.2	230	5.46			
		30									

NOTES: Shaft Located over Drill Hole

Panner - Ardrey

DEPTH
VALVE
W. L.
B. R.

4x6' Shaft

FIELD LOG

SHAFT No. A9

LOCATION Copper Canyon

DATE	FORMATION	Footage SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
FEB. 1940	S. Md. G. St. Cl.	1	3'-7" 102'-9"	48" x 61"							
	✓	2	0'-5" 103	48" x 61"	81.3		438	136			
		3									
	S.F.G.	4	3'-1" 106'-1"	52" x 64"							
	S.F.G. St. Cl.	5	1'-11" 108'	53" x 64"	117.8		445	9.52			
		6									
	S.F.G. St. Cl.	7	2'-1" 110'-1"	52" x 61"							
	S.F.G. Cl.	8	2'-11" 113	52" x 61"	110.0		430	9.83			
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
		21									
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

NOTES: Values per cubic yard computed from Shaft Measurements

Panner - Ardrey

DEPTH	113
VALVE	26 <sup>2</sup>
W. L.	—
B. R.	—



4'x6' Shaft

FIELD LOG

SHAFT NO. C8

LOCATION Copper Canyon

DATE	FORMATION	Footage SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
Dec 1939	CG-Sm.CL	1	3	3							
	✓	2	2	5		10 Cu. ft.					
	✓	3	2	7		12"x12" Side Cut					Placing Collar Set
	✓	4	3	10		10 Cu. ft.	10 Cu. ft. Net	12	3.07		
			5	3							
		Md. CG-Silt.	6	3	13		10 Cu. ft.				
		S-FG-Sm. Cl	7	3½	16½		12"x12" Side Cut				
		✓	8	3½	20		13 Cu. ft. Net	33	8.32		
			9								
		MCG-Sm. Cl	10	4½	24½						
	Sm. Quartz FG-S	11	2½	27		10 Cu. ft.					
		12	0	27		12"x12" Side Cut				Christmas No Work	
		13	0	27		12 Cu. ft. Net					
	MdG-FG-S	14	3	30				22	5.54		
		15									
	✓	16	0	30			0			Engine Trouble Repair Collar Set	
	VFG-S	17	3½	33½			90				
	Sm. Quartz VFG-S	18	3	36½		49"x61"	72 Net				
	MdG-S	19	3½	40		207.4	81	2258	27.4		
		20					24.3				
	✓	21	2½	42½			54				
Jan 1940	MdG-S-Sm. Cl	22	3	45½			81				
	Cement MdG-S-Cl	23	1½	47			36 Net				
	Cl-G-S-Rock	24	2	49			63				
	Cl-G-Rock	25	1	50		207.4	18	18,095	219.4		
		26						25.2			
	Cl-G-Rock	27	1	51			27				
	FS-MdG-Sm. Cl	28	2½	53½			63 Net				
	FSG-Sm. Cl	29	2½	56			60 Net				
	FS-G-Sm. Cl	30	1	57			27				

NOTES: Shaft Located over Drill Hole C8 Dpth 140' - 332'

Changed Long Tons on 1-6-40

Panners  
Bertolino Dec 15-18  
Hess Dec 18-31  
Meridith Jan 1-

DEPTH
VALVE
W. L.
B. R.

4x6' Shaft

FIELD LOG

SHAFT NO. C8

LOCATION Copper Canyon

DATE	FORMATION	Footings SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
Jan 1940	FS.G.Cl. Rock	1	3	60	210.8	69	1040	12.4				
		2				24						
9	SG. Sm Cl	3	2	62		54						
10	✓	4	1	63		27					Out of Water Pipe Line Froze	
11	SG. Sm Cl	5	2	65		63					Air Digger out of Order	
12	✓	6	1 1/2	66 1/2		45						
13	✓	7	1 1/2	68	50"	54						
14	S. Md. G	8	2	70	211.8	87	3402	40.6				
		9				330						
15	S. Md. Cl.	10	1	71		18						
16	✓	11	2 1/2	73 1/2		90						
17	CG. M. Cl. Rock	12	2'-9"	76'-3"	49" x 61"	810						
18	S. Md. G Sm. Cl.	13	3'-9"	80	207.3	111	1187	14.4				
		14				300						
FEB	S. Md. G. Sm. Cl.	15	2'-9"	82'-9"								
	FSG. Sm. Cl.	16	3'-3"	86'-0"	51" x 61"							
	✓	17	1'-2"	87'-2"								
	✓	18	2'-6"	89'-8"	51"							
	✓	19	0'-4"	90		216.0		525	6.12			
			20									
	S. Md. G. Sm. Cl.	21	2'-1"	92'-1"								
	S. Md. G. Cl.	22	3'-5"	95'-6"	51" x 62"							
	S. CG. C. Sm. R.	23	1'-8"	97'-4"	51"							
	9	S. Md. G. Cl.	24	2'-8"	100'		219.6		675	7.73		
			25									
	9	S. Md. G. Cl.	26	0'-10"	100'-10"							
27			2'-10"	103'-8"	50" x 61"							
11	✓	28	4'-0"	107'-8"								
12	✓	29	2'-4"	110'		211.6		15,731	187.3			
		30										

630  
419  
= 50' to  
swell

NOTES: Shut Down 1/19/40 for Installation of Head Frame & Air Hoist

Panner - Meridith

DEPTH
VALVE
W. L.
B. R.

4x6 Shaft

FIELD LOG

SHAFT NO. C8

LOCATION Copper Canyon

DATE	FORMATION	Footage SAMPLE	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
FEB 12 1940	S. Md. Cl	1	1'-0" 111'-0"	49x61"		Dry 28					
13	✓	2	4'-1" 115'-1"	"							
14	✓	3	3'-5" 118'-6"	49x61"							
15	✓	4	1'-6" 120		207.6		1370	16.6			
		5									
15	S.F.G. Sm Cl	6	2'-8" 122'-8"								
16	✓	7	3'-2" 125'-10"	50"x62"							2/17 Shut Down for Repairs
18	S.C.G. Cl	8	2'-11" 128'-9"								
19	✓	9	1'-3" 130		215.3		618	7.22			
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
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		21									
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

NOTES: Values per cubic yard computed from Shaft Measurements

Panner - Meridith

DEPTH	130'
VALVE	42 <sup>3</sup>
W. L.	—
B. R.	—



NATOMAS COMPANY  
**Greenan Placers, Inc.**  
 COPPER CANYON

DRILL HOLE VALUE CALCULATIONS

12/30/39

Line Shaft Hole C8  
 CREW # 1

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS <small>BOX MEASURE</small>	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	<sup>12/27</sup> 0-10	10	0.372	12.2	1.14	3.05	} 12"x12" Sample West Side = .37 (lot)	
2	10-20	10	0.482	23.3	2.15	4.51		
3	20-30	10	0.445	22.7	2.12	4.76		
4	<sup>12/28</sup> 30-33½	3½	3.335	174.0	16.21	4.83		
TOTAL								

REMARKS

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
July 24														
11	-	3	-	3	-	2	6	896	-	-	-	G-Top Soil	-	
12	20	5	6	5	5	2	-	896	7	Tr.		G-CI-S	20	
1	30	8	-	7	10	1	10	862	1	6	2MG	CI-GG-S	24	
1	40	9	6	9	6	1	2	552		3	Tr.	G-S-CI	16	
2	-	11	-	11	-	1	4	724		15	2MG	Md G-S-CI	16	
2	10	12	-	12	-	1	-	517		3	Tr.	G-S-CI	10	
2	25	13	-	12	11	1	1	414		3	Tr.	Md+CG-CI	10	
2	35	14	-	13	11	1	-	448		19	2MG	G-S-CI	10	
3	-	15	-	14	11	1	2	448		21	3	G-S-CI	10	
3	20	16	-	15	10	1	4	414		11	1	CG-S-CI	10	
3	30	17	-	16	11	1	-	483		13	1	G-S-CI	10	
3	40	18	-	17	9	1	2	414		30	3	MdG-S-CI	10	
4	-	19	-	19	-	1	-	517		42	5	G-S-CI	10	
July 25														
8	15	20	-	19	10	1	3	414		7	1	CG-S-CI	10	
CUT sample								Slimes	2	Tr.				
8	30	21	-	21	-	1	8	483		11	1MG	MdG-S-CI	10	
9	20	22	-	21	10	1	2	448		53	10	G-S-CI	10	
9	25	23	-	22	9	1	2	414		8	1	CI-G-S	10	
9	55	24	-	23	10	1	1	448		-	-	CI-S-G	10	
10	10	24	10	24	10	1	-	414		-	-	Bedrock	10	
10	30							483		-	-	<	20	

$\frac{33.3}{24.83} \times 8.18 = 10.98 \phi$

DEPTH	VOLUME	TIME LOG
Soil	Calculated 7.62 cu ft	Moving 6
Gravel	Measured 5.91 " "	Drilling 7 30
Bedrock 24'10"	Core 4.50 " "	Pulling 2 -
Water Level Not reached	CREW	Delays 5
	Driller Bertolino	Total 20 30
Est. Wt. Gold 35 MG.	Panner Stewart	
Wt. Gold 33.3	Mgs.	Constant Used 7 1/2" shoe
CALCULATED DEPTH 24.83 Ft.	Value Per Cu. Yd.	10.98 $\phi$
Date 27 July 1946		
Location 60' 564°E of RP1	Hole No.	RP1-60



# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line RP Hole 1-60  
GREENAN PLACERS

27 July 1946

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0-20	20	.2272	19.75	1.83675	8.084	161.680	8.084
2	20-24.83	4.83	.0549	13.55	1.26015	22.953	110.863	10.976
TOTAL		24.83	.2821	33.30	3.097	10.98		10.98

REMARKS .093¢/mg  
Bedrock at 24'10"

C O P Y R.B.F.

# COPY NATOMAS COMPANY FIELD LOG

Page 1

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
		4' Pit Sample						896		-	-		CI-S-Md+CG	
10	15	6	-	5	10	1	10	517		-	-	S-CI-Md+CG	24	
10	50	7	6	7	6	1	4	517		-	-	CI-S-Md+CG	16	
11	10	9	-	9	-	1	2	552		-	-	S-CI-G	16	
11	35	10	6	10	6	1	2	580		-	-	S-G-CI	16	
12	35	12	-	11	11	1	2	483		-	-	M.CI-S-FG	16	
1	10	13	-	13	-	1	-	379		-	-	CI-S-F+MdG	10	
2	50	14	6	14	5	1	8	379		-	-	M.CI-S-G	16	
3	20	16	-	16	-	1	5	414	1	Tr		M.CI-S-G	16	
3	40	17	6	17	6	1	5	517		-	-	CI-S-F+CG	16	
4	05	19	-	19	-	1	6	414		-	-	CI-S-G	16	
		July 13												
8	45	20	-	19	11	1	-	276		-	-	S-FG.CI.	10	
		Cut Sample												
9	10	21	6	21	6	1	2	310		-	-	S-CI-G	16	
9	25	23	-	22	10	1	2	310		-	-	CI-S-G	16	
10	-	24	6	24	6	1	3	414		-	-	S-CI-Md+CG	16	
10	25	26	-	25	10	1	3	379		-	-	S-CI-G	16	
10	50	27	6	27	6	1	5	414		-	-	S-CI-Md+CG	16	
11	10	29	-	29	-	1	2	448		-	-	S-CI-G	16	
11	35	30	6	30	5	1	1	483		-	-	S-FG-CI	16	
1	-	32	-	31	8	1	3	448		-	-	S-FG-CI-MdG.	16	
1	30	33	6	33	5	1	3	414		-	-	S-CI-CG.	16	
2	-	35	-	34	8	1	4	345		-	-	Boulder	16	
2	20	36	6	36	4	1	9	414		-	-	S-G-CI	16	
2	45	38	-	37	10	1	4	379		-	-	CI-S-FG	16	
3	10	39	6	39	4	1	9	414		-	-	S-CI-G	16	
3	35	41	-	40	11	1	9	379		-	-	CI-S-FG	16	
4	-	42	6	42	5	1	9	414		-	-	CI-S-F+MdG.	16	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Gravel	Measured	Drilling
	46.02 cu ft.	7		29.79 cu ft.	54
Bedrock 150' 00"	Core 26.60 cu ft.	7			
Water Level Not reached	CREW	Delays 8			
	Driller Bertolino	Total 76			
Est. Wt. Gold 52 MG.	Panner Stewart				
Wt. Gold 104.53	Mgs.	Constant Used 7 1/2" shoe			
CALCULATED DEPTH 150 Ft.	Value Per Cu. Yd. 5-20¢				
Date 24 July 1946					
Location 200' W of AC 19	Hole No. AC-20				



# Copy NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
July 15														
9	-	44	-	43	9	1	7	5	17	-	-	-	CI-S-G	16
9	55	45	6	45	4	1	7	4	14	1	Tr.	-	CI-S-F+MdG	16
10	15	47	-	46	11	1	10	4	48	-	-	-	CI-S-F+MdG	16
10	35	48	6	48	4	1	4	4	14	1	Tr.	-	CI-S-FG	16
11	05	50	-	49	11	1	6	4	48	-	-	-	CI-S-FG	16
11	25	51	6	51	3	1	10	4	48	-	-	-	CI-S-FG	16
12	35	53	-	52	10	1	2	4	83	-	-	-	S-CI-F+MdG	16
1	06	54	6	54	4	1	4	5	17	-	-	-	S-CI-G	16
1	30	56	-	55	10	1	2	5	17	-	-	-	S-CI-G	16
1	50	57	6	57	5	1	2	4	83	-	-	-	S-CI-F+MdG	16
2	20	59	-	59	-	1	2	4	83	-	-	-	S-CI-Md+CG	16
2	45	60	6	60	4	1	4	4	48	-	-	-	S-CI-G	16
3	35	62	-	61	10	1	5	4	83	-	-	-	S-CI-G	16
July 16														
8	25	63	6	63	5	1	2	4	48	-	-	-	S-FG-CI	16
9	-	65	-	64	11	1	2	4	14	-	-	-	S-FG-CI	16
9	30	66	6	66	4	1	2	4	14	-	-	-	S-FG-CI	16
10	-	68	-	67	11	1	1	4	48	-	-	-	S-FG-CI	16
July 17														
8	30	69	6	69	4	1	2	4	48	-	-	-	S-CI-F+MdG	16
9	-	71	-	70	10	1	6	6	55	-	-	-	CI-S-G	16
9	30	72	6	72	5	1	2	5	52	-	-	-	S-CI-G	16
9	50	74	-	73	10	1	2	5	17	2	Tr.	-	S-CI-Md+CG	16
10	10	75	6	75	4	1	3	4	83	12	MG	-	CI-S-G	16
10	35	77	-	76	11	1	2	4	48	4	Tr.	-	CI-S-G	16
11	-	78	-	77	10	1	1	3	79	2	Tr.	-	CI-S-G	10
11	10	79	-	78	11	1	-	3	79	-	-	-	S-CI-Md+FG	10
11	30	80	-	79	10	1	2	3	45	-	-	-	S-CI-G	10
Cut Sample														
12	35	81	6	81	4	1	4	4	48	-	-	-	C-S-G	16

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	7	7	-
Gravel	Measured	Drilling	54	-	-
Bedrock 150' 00"	Core	Pulling	7	-	-
Water Level	CREW	Delays	8	-	-
	Driller Bert Dilling	Total	76	-	-
Est. Wt. Gold 52 MG.	Panner Stewart				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location		Hole No.	HC-20		





# COPY NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
1	05	83	-	82	10	1	4	483	-	-	-	S-CI-F+MdG	16	
1	30	84	6	84	5	1	4	483	-	-	-	CI-S-G	16	
1	35	86	-	85	11	1	3	517	2	Tr.	-	CI-S-G	16	
2	15	87	6	87	4	1	4	483	5	Tr.	-	S-CI-G	16	
2	40	89	-	88	11	1	7	517	7	Tr.	-	S-CI-F.G	16	
3	05	90	6	90	5	1	3	483	15	IMG	-	S-CI-G	16	
3	40	92	-	91	10	1	6	450	11	IMG	-	S-CI-G	16	
4	-	93	-	92	10	1	1	379	23	2	<	S-CI-G	10	
				Slimes						2	Tr.			
July 18														
8	20	94	-	93	10	1	2	379	11	IMG	-	S-G-CI	10	
8	40	95	-	94	10	1	2	345	3	Tr.	-	CI-S-G	10	
9	-	96	-	95	10	1	3	379	4	Tr.	-	CI-S-F.G	10	
9	15	97	-	97		1	2	345	-	-	-	CI-S-G	10	
9	35	98	-	97	11	1	-	310	-	-	-	S-CI-G	10	
10	-	99	-	98	11	1	2	310	-	-	-	F.G-S-CI	10	
10	45	100	-	100		1	-	345	-	-	-	G-Small boulder	10	
11	10	101	-	100	10	1	-	379	-	-	-	S-G-CI	10	
11	30	102	-	101	11	1	1	345	3	Tr.	-	S-CI-G	10	
12	25	103	-	102	11	1	3	345	6	Tr.	-	CI-S-G	10	
12	50	104	-	103	10	1	1	414	2	Tr.	-	C.G-S-CI	10	
1	05	105	-	104	9	1	-	379	2	Tr.	-	G-S-CI	10	
1	20	106	-	105	10	1	2	414	2	Tr.	-	CI-G-S	10	
1	40	107	-	106	11	1	2	414	4	Tr.	-	C.G-S-CI	10	
2	05	108	-	107	9	1	1	379	7	IMG	-	MdG-S-CI	10	
2	45	109	-	108	11	1	3	414	17	2	<	G-S-CI	10	
3	10	110	-	109	11	1	1	448	7	Tr.	-	G+MdG-S-CI	10	
3	35	111	-	110	9	1	2	414	28	3	MG	G-S-CI	10	
3	50	112	-	111	10	1	1	448	10	1	<	MdG-CI-S	10	
				Slimes						2	Tr.			

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	7	-	
Gravel	Measured	Drilling	54	-	
Bedrock	150' 00"	Core	Pulling	7	-
Water Level		CREW	Delays	8	-
		Driller	Total	76	
Est. Wt. Gold	52 MG.	Panner			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location		Hole No.	HC-20		



# COPY NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
8	25	113	-	112	10	1	1	379			6 Tr.	Md.G-CI-S	10	
9	-	114	-	113	9	1	2	414			22 3MG	G-CI-S	10	
9	15	115	-			1	1						10	
CUT sample														
9	35	116	-	115	10	1	1	448			7 Tr.	C.G-CI-S	10	
9	50	117	-	116	8	1	5	448	150	10MG		G-CI-S	10	
10	20	118	-	117	11	1	5	414	22	1 <		Small boulder -G	10	
10	45	119	-	118	9	1	2	414			6 Tr.	G-CI-S	10	
11	10	120	-	119	10	1	1	448			4 Tr.	CI-S-G	10	
11	30	121	-	120	10	1	2	448			5 Tr.	C.G-S-CI	10	
12	20	122	-	121	10	1	3	379			6 Tr.	CI-G-S	10	
12	45	123	-	122	9	1	2	414	1	93MG		G-CI-S	10	
1	10	124	-	123	11	1	4	483		272 <		S-CI-G	10	
1	35	125	-	124	10	1	-	379		13 1 <		C.G-CI-S	10	
2	05	126	-	125	10	1	6	448		322 <		C.G-CI-S	10	
2	45	127	-	126	10	1	3	379			6 Tr.	G-CI-S	10	
3	15	128	-	127	9	1	2	379			3 Tr.	G-S-CI	10	
3	40	129	-	128	9	1	1	448			4 Tr.	Md.G-CI-S	10	
4	-	130	-	129	10	1	3	414			132MG	G-CI-S	10	
Slimes														
2 Tr.														
July 20														
8	35	131	-	130	11	1	-	414		22 2MG		C.G-S-CI	10	
9	-	131	10	131	10	1	-	379		8 1 <		Boulder	10	
9	20	133	-	132	10	1	3	448			1 Tr.	G-S-CI	12	
9	50	134	-	134		1	3	414			1 Tr.	Md.G-S-CI	10	
10	15	135	-	134	8	1	4	379		-		C.G-S-CI	10	
10	35	136	-	136	11	1	2	483			4 Tr.	G-CI-S	10	
11	20	137	-	136	9	1	4	379			3 Tr.	G-CI-S	10	
12	20	138	-	137	11	1	4	448			1 Tr.	G-CI-S	10	
12	55	139	-	138	9	1	2	414			3 Tr.	G-CI-S	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	54	-	
Bedrock 150' 00"	Core	Pulling	7	-	
Water Level	CREW	Delays	8	-	
	Driller Bertolino	Total	76	-	
Est. Wt. Gold 5.2 MG.	Panner Stewart				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date					
Location			Hole No. AC-20		



*COPY*  
**NATOMAS COMPANY**  
**FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
1	15	140	-	139	10	1	1	414	2	Tr		C.G-CI-5	10	
1	40	141	-	140	10	1	5	448	1	Tr		G-S-CI	10	
2	-	141	6	141	10	-	8	345	-	-		Boulder	10	
2	20			143	-	-	-	310	-	-		<	14	
3	15	143	-	143	-	1	1	448	1	Tr		G-S-CI	-	
3	40	144	-	143	9	1	1	345	-	-		G-S-CI	10	
4	05	145	-	144	9	1	2	345	1	Tr		G-S-CI	10	
July 22														
8	45	146	-	145	11	1	7	448	1	Tr		Md.G-S-CI	10	
9	05	147	-	146	9	1	2	414	1	Tr		G-S-CI	10	
9	30	148	-	148	-	1	1	414	1	Tr		G-S-CI	10	
10	-	149	-	148	11	1	-	379	-	-		G-S-CI	10	
10	20	150	-	149	10	1	2	379	2	Tr		S-G-CI	10	
CUT Sample														
10	50	150	10	150	10	1	1	414	-	-		Bedrock	10	
11	15	-	-	152	-	-	-	345	-	-		<	14	
12	30	-	-	154	-	-	-	375	-	-		<	36	

$104.53 \times 8.18 = 857.4$   
 150

DEPTH		VOLUME		TIME LOG	
Soil		Calculated		Moving	7 -
Gravel		Measured		Drilling	54
Bedrock	150' 00"	Core		Pulling	7
Water Level		CREW		Delays	8
		Driller	Bertolino	Total	76
Est. Wt. Gold	52 MG.	Panner	STEWART		
Wt. Gold		Mgs.		Constant Used	
CALCULATED DEPTH		Ft.		Value Per Cu. Yd.	
Date					
Location		Hole No. HC-20			

# DELAYS

FROM	TO	TIME LOST	CAUSE
1 10	2 40	1 30	Crooked hole
12 30	1 -	30	Cleaning Carburetor
10 -	4 -	6 -	Dressing bits

## GENERAL REMARKS

Hard bedrock (chert)

$$\begin{array}{r}
 27 \\
 \hline
 27 \overline{) 726} \\
 \underline{54} \phantom{0} \\
 186 \\
 \underline{186} \\
 0
 \end{array}$$

$$\begin{array}{r}
 59 \\
 27 \\
 \hline
 2863 \\
 818 \\
 \hline
 11043
 \end{array}$$



# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line C Hole 19  
GREENAN PLACERS

12 July 1946

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$ 29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0'-20'	20	0.227	1.28	.1190¢	0.52	10.4	0.52
2	20'-40'	20	0.227	0.00	.000¢	0.00	0.00	0.26
3	40'-60'	20	0.227	0.00	.000¢	0.00	0.00	0.17
4	60'-80'	20	0.227	0.26	.0242¢	0.11	2.20	0.16
5	80'-99'	19	0.216	0.48	.0446¢	0.21	3.99	0.17
TOTAL		99	1.1246	2.02	.1878	0.17		0.17

REMARKS 0.093¢/mg

Bedrock-shale and chert.

RBF

C-O-P-Y



# COPY NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
July 5 - 1946														
	4	PIT Sample						860		1			Tr. Md+CG-CI-S	
10	15	6	-	5	10	1		2790		1		Tr. S-CI-F+Md.G-C.G.	20	
10	40	7	6	7	6	1		10580		2		Tr. S-CI-F+Md.G	16	
11	05	9	-	8	9	1		6517		2		Tr. S-CI-F.G	14	
11	25	10	6	10	5	1		4757		2		Tr. S-FG-CI-Md.G.	16	
12	20	12	-	12	-	1		4550		1		Tr. S-F+Md.G-CI	16	
12	45	13	6	13	4	1		3550		1		Tr. S-CI-F+Md.G	16	
1	20	15	-	15	-	1		7828		3		Tr. S-CI-F.G	14	
1	55	16	6	16	5	1		4580		1		Tr. S-CI-F.G	16	
2	20	18	-	18	-	1		8690		1		Tr. S-CI-F+Md.G	16	
2	45	20	-	19	11	1		5750		-		S-CI-F.G	20	
CUT Sample														
Blanket														
July 6														
11	15	21	6	21	6	1		2620		-		S-FG-CI-Md.G	16	
12	15	23	-	22	10	1		2379		-		S-CI-F.G.	16	
12	50	24	6	24	3	1		9517		-		S-CI-F.G	16	
1	15	26	-	25	10	1		9620		-		S-CI-F+Md.G.	16	
1	40	27	6	27	4	1		8379		2		Tr. S-CI-F+Md.G	16	
2	-	29	-	28	10	1		4379		-		S-CI-F+Md.G	16	
2	15	30	6	30	4	1		6414		-		S-CI-F.G	16	
2	35	33	-	32	11	1		9517		-		S-CI-F+Md.G	16	
3	15	34	6	34	3	2		6483		-		S-CI-F.G.	16	
3	55	36	-	35	10	1		3448		-		S-CI-F.G	16	
Blanket														
July 8														
8	50	37	6	37	5	1		517		-		S-FG-CI-Md.G	16	
9	15	39	-	38	10	1		414		-		S-CI-F+Md.G	16	
9	45	40	-	39	10	1		345		-		S-F+Md.G-CI-C.G.	10	
CUT Sample														
10	10	41	6	41	4	1		4517		-		S-F+Md.G-CI	16	
10	45	43	-	42	10	1		1517		-		FG-S-CI-Md+CG	16	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	30 ± cu ft	Moving	8	
Gravel	Measured	17 ± " "	Drilling	27	
Bedrock 99'	Core	16 ± " "	Pulling	5 - 30	
Water Level	CREW		Delays	5 - 15	
	Driller	Bertolino	Total	45 - 45	
Est. Wt. Gold 4mg.	Panner	Stewart			
Wt. Gold 2.02	Mgs.		Constant Used	7 1/2" shoe	
CALCULATED DEPTH	99 Ft.	Value Per Cu. Yd.	0 1/2 ±		
Date	7-12-46				
Location	Greenan Placers		Hole No. C-19		
250' N 64° W from C18 on line C					



# COPY NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
11	05	44	6	44	2	1	5	448	-	-		FG-S-CI-MdG	16	
11	30	46	-	45	9	1	2	414	-	-		FG-S-CI-MdG	16	
12	20	47	6	47	4	1	6	345	-	-		S-CI-FG	16	
12	45	49	-	48	10	1	8	345	-	-		S-CI-F+MdG	16	
1	10	50	6	50	4	1	9	379	1	Tr		S-CI-FG	16	
1	30	52	-	51	10	1	10	379	-	-		S-CI-F+MdG	16	
2	-	53	6	53	4	1	3	483	-	-		S-CI-G	16	
2	15	55	-	54	9	1	2	448	1	Tr		S-CI-F+MdG	16	
2	40	56	6	56	4	1	6	414	-	-		S-CI-G	16	
3	-	58	-	57	11	1	6	483	-	-		S-CI-G	16	
3	30	60	-	59	10	2	2	517	-	-		S-CI-F+Md+CG	22	
CUT Sample														
3	55	61	6	61	2	1	8	379	-	-		S-CI-F+MdG	16	
Blanket July														
8	50	63	-	62	11	1	7	483	1	Tr		S-CI-G	16	
9	15	64	6	64	2	1	4	379	-	-		S-CI-G	16	
10	05	66	-	65	10	1	4	345	-	-		S-CI-FG	16	
10	30	67	6	67	4	1	6	345	-	-		S-CI-F+MdG	16	
11	10	69	-	69	-	1	3	310	-	-		CI-S-F+MdG	16	
11	30	70	6	70	5	1	3	517	-	-		S-F+MdG-CI	16	
12	30	72	-	71	11	1	3	448	2	Tr		FG-S-CI-MdG	16	
12	55	73	6	73	4	1	5	379	-	-		S-CI-FG	16	
1	20	75	-	74	9	1	7	345	-	-		S-CI-F+MdG	16	
1	40	76	6			1	3	552	-	-		G-CI-Small boulder	16	
2	05	78	-	77	10	1	6	448	2	Tr		S-CI-Md+CG	16	
2	30	80	-	80	-	2	2	793	-	-		S-CI-Md+CG	22	
CUT Sample														
3	-	81	6	81	4	1	2	414	-	-		S-CI-Md+CG	16	
3	20	83	-	82	10	1	4	379	-	-		S-CI-G	16	
3	35	84	6	84	4	1	1	345	-	-		S-CI-F+MdG	16	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Hr	Min	
Gravel	Measured	Drilling	8	-	
Bedrock 99'	Core	Pulling	5	30	
Water Level	CREW	Delays	5	15	
	Driller Bertolingo	Total	45	45	
Est. Wt. Gold 4MG	Panner Stewart				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location		Hole No.	C-19		



# COPY NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
3	55	86	-	85	10	1	7	345	-	-	-	S-CI-G	16	
July 10														
8	20	87	6	87	4	1	4	345	-	-	-	CI-S-F+MdG	16	
8	45	89	-	88	10	1	7	414	-	-	-	S-CI-G	16	
9	-	90	6	90	4	1	7	379	1	T	-	STCI-S-MdG	16	
9	35	92	-	91	10	1	6	414	-	-	-	MSTCI-FG	16	
9	45	93	6	92	4	1	5	379	-	-	-	CI-S-F+MdG	16	
10	05	95	-	94	11	1	3	379	-	-	-	S-CI-F+G.G	16	
10	20	96	6	96	3	1	2	345	1	2	MG	CI-S-FG	16	
10	50	98	-	97	10	1	6	448	-	-	-	S-CI-F+MdG	16	
11	10	99	-	99	-	1	-	379	-	-	-	Bedrock	10	
12	30			102	-			757	-	-	-		36	

$2.02 / 99 \times 8.18 = 0.17 \text{ g/cc } \text{gd}$

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	8	Min.	-
Gravel	Measured	Drilling	27		
Bedrock 99'	Core	Pulling	5	30	
Water Level		Delays	5	15	
	CREW	Total	45	45	
Driller	Bertolino				
Panner	Stewart				
Est. Wt. Gold 4 MG.					
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location		Hole No.	C-19		





# NATOMAS COMPANY FIELD LOG

Shot 7/4

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
2	05	3		3		0	600			3	TR	Gr. & M. Ch.		
2	15	4		4		0	500			10	L	" " " "	10	
2	30	5		5		0	650			5	TR	Gr. CLEAN	11	
2	45	6		6		0	600			9	TR	" " " "	10	
3	40	8		8		0	600			1	TR	" " M. Ch.	10	
3	55	9		9		0	600			1	TR	" " " "	10	
4	35	10		10		9	500			1	TR	" " " "	10	
7	30	11		11		7	900				TR	F.S. SM. CL. SM. G. L.L.	10	
7	45	12		12		9	900				TR	F.S. SM. CL. G.	10	
8	-	13		12	11	8	350			1	TR	SM. CL. S. G.	10	
8	10	14		14		9	900			1	TR	SM. CL. S. G.	10	
8	20	15		15		6	350			3	TR	SM. CL. S. F.G.	10	
8	30	16		16		6	300				TR	SM. CL. F.G. S.	10	
8	45	17		17		8	350			1	TR	SM. CL. F.G. F.S.	10	
9	-	18		18		6	350				TR	F.S. Boulder	10	
9	15	19		19		11	400			1	TR	F.S. SM. Boulder SM. CL	10	
9	35	20		20		6	350			2	TR	F.S. SM. CL. F.B.	10	
9	50	21		21	1	8	500			3	TR	F.S. SM. CL. G.	10	
10	05	22		22	1	6	450			2		S. G. B. SM. CL.	10	
10	20	23		23	1	6	400			2	TR	S. G. SM. CL.	10	
10	40	24		24	1	7	900			3	TR	S. F.G. SM. CL.	10	
10	55	25		25		7	400			1	TR	S. G. G. SM. CL.	10	
11	20	26		26	1	6	400				TR	S. C. G. SM. CL.	10	
11	45	27		27		6	400				TR	F.S. F.G. SM. CL.	10	
12	-	28		27	11	7	300			2	TR	F.S. F.G. SM. CL.	10	
12	15	29		29	1	6	300			2		F.S. F.G. SM. CL.	10	
12	45	30		30		9	450			4	TR	G. G. S. SM. CL.	10	
1	05	31		31		6	400			3	TR	G. G. S. SM. CL.	10	
1	30	32		32		9	350				TR	G. S. Md. CL.	10	
1	45	33		33		6	300				TR	G. G. S. Md. CL.	10	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated			Moving	
Gravel	Measured			Drilling	
Bedrock	Core			Pulling	
Water Level	CREW		Delays		
Est. Wt. Gold	Panner	Driller <i>M. G. Scott</i>		Total	
Wt. Gold	Mgs.	Panner <i>W. Huss</i>		Constant Used	
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date					
Location <i>COPPER CANYON</i>			Hole No. <i>PP-11</i>		





# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
2	-39	39				8	500	6	TR			G.G. S. Md. CL	10	
2	1535	35				6	400	2	TR			V.C.G. Md. CL	10	
2	3036	36				7	300	8	TR			V.C.G. Md. CL	10	
2	4537	37	1			8	530	9	TR			V.C.G. Md. CL S	10	
3	-38	38				9	450	12	TR			V.C.G. Md. CL S	10	
3	1539	39				10	450	15	2			G.G. M. CL S	10	
3	3540	40	1			8	550	18	2			M. CL S. C. G	10	
3	5041	41				9	450	10	1TR			M. CL S. C. G	10	
4	0542	42				6	500	21	2			M. CL S. C. G	10	
4	2043	43				10	500	31	3TR			M. CL S. C. G	10	
4	3544	44				6	350	20	2			M. CL S. C. G	10	
4	5045	45				8	500	12	1			M. CL S. C. G	10	
1-18	-46	46				9	300	20	2			f. g.	10	
	83047	47				11	400	10	1			f. g. 4 CL	10	
9	-48	48				8	400	20	2			" " " "	10	
	93049	49				8	450	20	3			" " " "	10	
10	1050	50	1			-	350	10	1			" " " "	10	
10	3551	50	10			11	400	10	1			" " " "	10	
11	-52	51	11			9	400	20	2			" " " "	10	
11	2053	53	-	1		-	400	20	2			" " " "	10	
11	4554	54				10	500	10	1			" " " "	10	
12	-55	55				10	400	10	1			" " " "	10	
12	1556	56				9	400	50	10			" " " "	10	
12	3557	57				10	400	100	20			" " " "	10	
12	4058	58				8	400	500	50			" " " "	10	
12	5559	59				10	500	100	20			" " " "	10	
1	2060	60				9	400	50	10			" " " "	10	
1	4061	61	1			-	450	40	5			" " " "	10	
1	5562	62	1			-	400	15	2			" " " "	10	
2	1063	63				11	550	15	2			" " " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>E. Louch</i>	Total
Est. Wt. Gold <i>1560T</i>	Panner <i>W. Huse</i>	
Wt. Gold <i>66</i>	Mgs.	Constant Used
CALCULATED DEPTH <i>0-45</i>	Ft.	Value Per Cu. Yd. <i>120</i>
Date		
Location <i>COPPER CANYON</i>	Hole No. <i>P.P.-11-N</i>	

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
2	25	64		63	11	10	350				30	5	f. g. r. cl.	10
2	40	65		64	11	9	500				15	2	" " " "	10
2	55	66		65	9	10	350				10	1	" " " "	10
3	15	67		66	11	11	400				10	1	" " " "	10
3	30	68		67	10	1	500				10	1	" " " "	10
4	-	69		69	1	11	600				10	1	" " " "	10
4	30	70		70		5	300				10	1	" " " "	10
1-13.	9	50	71	71		8	400				10	1	" " " "	10
10	-	72		72		7	450				10	1	" " " "	10
10	20	73		73		6	600				20	2	" " " "	10
10	35	74		74		7	350				10	1	" " " "	10
10	55	75		75		0	500				10	1	" " " "	10
11	05	76		76		5	350				10	1	" " " "	10
11	25	77		77		6	400				10	1	" " " "	10
11	35	78		78		8	350				5	TR	" " " "	10
11	50	79		79		7	350				3	TR	" " " "	10
12	20	80		80		6	400				2	TR	" " " "	10
12	35	81		81		7	450				2	TR	" " " "	10
12	45	82		82		7	450				10	1	" " " "	10
1	-	83		83		6	450				10	1	" " " "	10
1	15	84		84		6	450				2	TR	" " " "	10
1	20	85		85		7	450				1	TR	" " " "	10
1	30	86		86		7	400				1	TR	" " " "	10
1	40	87		87		6	500				5	TR	" " " "	10
1	55	88		88		7	300				5	TR	" " " "	10
2	10	89		89	1	6	450				10	1	" " " "	10
2	30	90		90		6	400				10	1	" " " "	10
2	40	91		91		6	400				10	1	" " " "	10
2	55	92		92		7	400				10	1	" " " "	10
3	05	93		93		8	400				20	2	" " " "	10

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>L. Lynch</i>	Total
Est. Wt. Gold <i>147</i>	Panner <i>W. Huse</i>	
Wt. Gold <i>145</i>	Mgs.	Constant Used
CALCULATED DEPTH <i>45-70</i> Ft.		Value Per Cu. Yd. <i>47<sup>2</sup></i>
Date		
Location <i>COPPER CANYON</i>	Hole No. <i>PR-11-N.</i>	



# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
		Hrs	Min	Ft	In				Ft	In	Ft				In
3	25	94		94		6	450			10	1			f. g. f. ch.	10
3	35	95		95		8	400			10	1				10
3	50	96		96		6	450			1	TR				10
4	05	97		97		7	450			1	TR				10
4	15	98		98		7	450			1	TR				10
4	30	99		99		7	400			1	TR				10
4	50	100		100		8	400			1	TR				10
1-1/4	8	25		101		5	450			1	TR				10
8	40	102		102		6	500			1	TR				10
9	-	103		103		7	400			10	1				10
9	10	104		104		6	300			10	1				10
9	30	105		105		6	400			2	TR				10
10	-	106		106		8	400			1	TR				10
10	15	107		107		7	350			1	TR				10
10	25	109		108		8	400			1	TR				10
10	40	109		109		7	300			2	TR				10
11	-	110		110		7	400			1	TR				10
11	20	111		111		11	300			2	TR				10
11	45	112		112		6	300			5	TR				10
12	05	113		113		8	300			3	TR				10
12	15	114		114		8	400			2	TR				10
12	30	115		115		7	450			2	TR				10
12	45	116		116		7	200			10	1				10
1	10	117		116	11	8	410			40	6				10
1	30	118		118		8	450			10	1				10
2	50	119		119		9	300			10	1				10
3	10	120		120	1	9	400			10	1			f. g. f. s. sm. ch.	10
3	30	121		121	1	8	400			10	1				10
3	55	122		122	1	6	850			10	1				10
4	10	123		123		7	450			10	1				10

DEPTH		VOLUME		TIME LOG	
Soil		Calculated		Moving	
Gravel		Measured		Drilling	
Bedrock		Core		Pulling	
Water Level			CREW	Delays	
	70-100	100-124	Driller <i>Mr. G. Scott</i>	Total	
Est. Wt. Gold	18	16	Panner <i>W. Huac</i>		
Wt. Gold	20	33	Mgs.	Constant Used	
CALCULATED DEPTH		70-100	Ft.	Value Per Cu. Yd.	5-5
		100-124			11 3/4
		Date			
Location	<i>COPPER CANYON</i>			Hole No.	<i>PP-11-N</i>



# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
4 30	124		124			6 400				10 1		f. g. r. cl.	10	
8 10	125		125	1		7 400				20 2		" " " "	10	
8 35	126		126			6 300				10 1		" " " "	10	
8 50	127		127			8 400				10 1		" " " "	10	
9 05	128		128			9 450				10 1		" " " "	10	
9 35	129		129			0 400				10 1		" " " "	10	
9 50	130		130			5 400				10 1		" " " "	10	
10 -	131		131	1		6 400				10 1		" " " "	10	
10 15	132		132			8 300				3 TR		" " " "	10	
10 30	133		133			7 400				20 2		" " " "	10	
10 45	134		134			5 450				20 2		" " " "	10	
11 05	135		135			6 350				10 1		" " " "	10	
11 15	136		136			8 400				10 1		" " " "	10	
11 35	137		137			8 350				10 1		" " " "	10	
11 50	138		138			6 450				10 6		" " " "	10	
12 05	139		139			7 450				3 TR		" " " "	10	
12 20	140		140			7 400				5 TR		" " " "	10	
12 40	141		141			8 400				10 1		" " " "	10	
12 55	142		142			7 500				20 2		" " " "	10	
1 10	143		143			8 300				20 2		" " " "	10	
1 25	144		144			6 400				10 1		" " " "	10	
1 45	145		145			6 300				3 TR		" " " "	10	
2 10	146		146			7 300				2 TR		" " " "	10	
2 25	147		147	1		7 300				10 1		" " " "	10	
2 45	148		148			5 500				10 1		" " " "	10	
3 05	149		149			7 300				10 1		" " " "	10	
3 25	150		150			6 350				10 1		" " " "	10	
3 50	151		151			6 250				10 1		" " " "	10	
4 10	152		152			6 300				10 1		" " " "	10	
4 30	153		153			4 400				5 TR		" " " "	10	

DEPTH	VOLUME	TIME LOG
Soil	Calculated	Moving
Gravel	Measured	Drilling
Bedrock	Core	Pulling
Water Level	CREW	Delays
	Driller <i>M. G. Scott</i>	Total
Est. Wt. Gold <i>28</i>	Panner <i>W. Huse</i>	
Wt. Gold <i>35</i>	Mgs.	Constant Used
CALCULATED DEPTH <i>124-153</i> Ft.		Value Per Cu. Yd. <i>99</i>
Date		
Location <i>COPPER CANYON</i>	Hole No. <i>P.R.-11-16</i>	

# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
8	25	154		154		7	400				5	TR	f. c. & ch.	10
8	45	155		155		8	350				10	1	" " " "	10
9	15	156		156		8	300				8	TR	" " " "	10
9	40	157		157		6	300				5	TR	" " " "	10
9	55	158		158		6	400				10	1	" " " "	10
10	25	159		159	1	6	650				3	TR	" " " "	10
10	40	160		160		6	300				20	2	" " " "	10
10	55	161		161		3	300				1	TR	" " " "	10
11	10	162		162		5	350				2	TR	" " " "	10
11	25	163		163		6	300				1	TR	" " " "	10
11	40	164		164		7	350				1	TR	" " " "	10
11	55	165		165		7	250				1	TR	" " " "	10
12	25	166		166		8	350				1	TR	" " " "	10
12	40	167		167		7	400				10	1	" " " "	10
1	-	168		168		5	400				10	1	" " " "	10
1	20	169		169		5	450				10	1	" " " "	10
1	40	170		170		6	450				5	TR	" " " "	10
2	10	171		171		7	300				1	TR	f. c. s. & sm. ch.	10
2	35	172		172		0	750				20	2	" " " "	10
2	55	173		173		0	450				20	2	" " " "	10
3	15	174		174		3	900				30	3	" " " "	10
3	35	175		175		5	500				10	1	" " " "	10
4	-	176		176		6	500				10	1	" " " "	10
8	35	177		177		9	350				10	1	" " " "	10
9	-	178		178		8	300				10	1	" " " "	10
9	25	179		179		9	350				10	1	" " " "	10
9	40	180		180	1	10	600				10	1	" " " "	10
10	10	181		181	1	7	500				3	TR	" " " "	10
10	30	182		182		7	400				1	TR	" " " "	10
11	-	183		183		2	450				5	TR	" " " "	10

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling			
Bedrock	Core	Pulling			
Water Level					
		CREW		Delays	
Driller	M. L. Scott.		Total		
Est. Wt. Gold	16	Panner	W. Huse		
Wt. Gold	37	Mgs.	Constant Used		
CALCULATED DEPTH		183-176	Ft.		Value Per Cu. Yd.
				13 <sup>2</sup>	
Date					
Location		COPPER CANYON		Hole No.	
				P.P.-11-N.	



# NATOMAS COMPANY FIELD LOG

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TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES	
		Pipe		Pump'g					SIZE						
		Hrs	Min	Ft	In				Ft	In	Ft				In
11	25	184		184	1		7	350			3	TR	f. c. s. f. sm. cl.	10	
11	40	185		185			6	300			0	0			10
11	55	186		186			6	350			1	TR	" " " " " "	10	
12	20	187		187			6	350			5	TR	" " " " " "	10	
12	45	188		188			7	400			1	TR	" " " " " "	10	
1	-	189		189			6	450			2	TR	" " " " " "	10	
1	20	190		190			6	250			0	0	" " " " " "	10	
1	35	191		191			6	650			1	TR	" " " " " "	10	
1	50	192		192			8	350			1	TR	" " " " " "	10	
2	15	193		193			6	400			1	TR	" " " " " "	10	
2	30	194		194			6	350			1	TR	" " " " " "	10	
2	45	195		195	1		7	350			1	TR	" " " " " "	10	
3	-	196		196			4	500			5	TR	" " " " " "	10	
3	15	197		197			7	350			2	TR	" " " " " "	10	
3	30	198		198			7	250			0	0	" " " " " "	10	
3	40			199			4	100			2	TR	" " " " " "	12	
4	-			200			6	00			1	TR	" " " " " "	24	

$176-180 = \frac{40}{76} \times 17 = 9 \text{ mg.}$

353  
 82  
 ---  
 706  
 2824  
 ---  
 198 ) 26946 ( 146  
 198  
 ---  
 914  
 792  
 ---  
 1226

DEPTH	VOLUME	TIME LOG
Soil	Calculated 60.74 Cu. ft	Moving
Gravel	Measured 47.00 ✓	Drilling
Bedrock	Core 20.30 ✓	Pulling 15.6R. 45M
Water Level	CREW	Delays
	Driller <i>M. G. Scott</i>	Total
Est. Wt. Gold 239	Panner <i>W. Hume</i>	
Wt. Gold 353	Mgs.	Constant Used
CALCULATED DEPTH 0 Ft. 198	Value Per Cu. Yd. 14.6¢	
Date 0 - 180	" " 157	
Location COPPER CANYON	Hole No. P.P.-11-N.	



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES		
		Pipe		Pump'g					SIZE							
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3					
													May 17-46			
				4' PIT Sample										Cl-Md.+C.G-S		
2	15	6	-	5	9	1	6	4	4					Cl-Md.+C.G-S	20	
3	15	7	6	7	6	1	5	5	9			1 Tr.		ST-Cl-Md.G-S	18	
														May 18		
9	-	10	-	9	11	2	9	8	9					Sm.ST.Cl-Md.G-S	24	
9	30	11	6	11	4	1	9	4	8			1 Tr.		ST.Cl-Md.+F.G-S	12	
10	-	13	-	13	-	1	7	5	7			1 Tr.		Cl-C+Md.G-S	12	
10	30	14	6	14	5	1	5	4	8			2 Tr.		Cl-S-Md.G.	14	
11	-	16	-	15	10	1	9	4	8					Cl-S-Md.G	14	
11	25	17	4	17	1	1	8	3	4			4 Tr.		Cl-S-C.G	12	
12	15	19	-	18	10	2	2	5	7			7 Tr.		Cl-G-S	14	
12	35	20	-	19	10	1	4	4	4			2 Tr.		Md.G-S-Cl	8	
				CUT Sample												
1	05	21	6	21	5	1	10	4	8					ST.Cl-Md.+F.G-S	12	
1	15	23	-	22	10	2	-	5	7					ST.Cl-G-S	12	
1	35	24	6	24	2	1	9	3	9					Sm.ST.Cl-G-S	12	
1	50	26	-	25	11	1	6	4	8					Cl-S-F.G.	12	
2	15	27	6	27	5	2	0	6	7					ST.Cl-F.G-S	12	
2	40	29	-	28	11	1	8	4	4			4 Tr.		Cl-F.G-S	12	
3	05	30	6	30	4	1	7	5	7			2 Tr.		F.G-Cl-S	12	
														May 20		
9	-	32	-	32	-	1	8	3	0			7	1	Cl-S-F.G.	12	
9	35	33	6	33	4	1	5	3	9			3 Tr.		Cl-S-F.G.	12	
9	55	35	-	34	11	1	5	4	8			2 Tr.		M.ST.Cl-F.G-S	12	
10	15	36	6	36	6	1	4	3	4			2 Tr.		M.ST.Cl-F.G	12	
10	35	38	-	37	10	1	9	3	4					M.Cl-Sm.F.G	12	
10	45	39	-	38	11	1	6	3	9					ST.Cl-Sm.F.G	12	
				CUT Sample												
10	50	40	-	39	11	1	1	4	4					M.ST.Cl-Sm.F.G	6	

DEPTH		VOLUME		TIME LOG	
Soll	Calculated	Moving	Drilling	Pulling	Delays
	42.0 cu. ft.				
Gravel	Measured 19.6 " "		42		
Bedrock	None	Core 27.0 " "		6	
Water Level	120'				
		CREW			
		Driller Bertilono			
			Total	55	30
Est. Wt. Gold	20 MG.	Panner Stewart			
Wt. Gold	28.8	Mgs.	Constant Used	7 1/2" shoe	
CALCULATED DEPTH 137 Ft.		Value Per Cu. Yd.		1.72	
Date 6-1-46					
Location	Copper Basin	Hole No.		N-3; Line 1	



*Cop*  
**NATOMAS COMPANY**  
**FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
11	-	41	6	41	6	1	5	345	-	-	-	M. ST. CI - 5m. F.G.	12	
11	15	43	-	42	10	1	7	379	-	-	-	M. ST. CI - 5m. F.G.	12	
12	15	44	6	44	4	1	5	379	-	-	-	M. CI - F.G - 5	12	
12	35	46	-	45	9	1	8	379	-	-	-	M. CI - F.G.	12	
1	-	47	6	47	3	1	11	414	-	-	-	M. CI - F.G - 5	12	
1	15	49	-	48	8	1	9	379	-	-	-	M. CI - F.G - 5	12	
1	30	50	6	50	8	1	8	310	-	-	-	M. CI - F.G	12	
1	50	52	-	52	-	1	11	310	-	-	-	M. CI - S - F.G	12	
2	10	53	6	53	6	1	6	345	-	-	-	M. CI - S - F.G	12	
2	40	55	-	54	10	1	5	310	-	-	-	M. CI - S - F.G	14	
3	10	56	6	56	4	1	6	310	-	-	-	ST. CI - F.G. S.	12	
Blanket										-	-	May 21	-	
8	40	58	-	57	9	1	5	345	-	-	-	CI - S - F.G	12	
9	05	59	6	59	4	2	8	310	-	-	-	M. CI - F.G - S	12	
9	25	61	-	61	-	1	8	276	-	-	-	M. ST. CI - 5m. F.G	12	
9	40	62	6	62	4	1	11	276	-	-	-	M. ST. CI - 5m. F.G	12	
10	30	64	-	64	-	1	7	310	-	-	-	M. ST. CI - 5m. F.G	12	
10	45	65	6	65	4	1	6	310	-	-	-	M. CI - 5m. F.G - 5	12	
11	10	67	-	66	8	2	2	276	-	-	-	M. CI - 5m. F.G	12	
11	25	68	6	68	4	1	10	276	-	-	-	M. CI - 5m. F.G - 5	12	
12	10	70	-	69	10	1	9	345	-	-	-	M. ST. CI - 5m. F.G	12	
12	45	71	6	71	6	1	6	345	-	-	-	M. ST. CI - 5m. F.G	12	
1	20	73	-	72	11	1	6	310	-	-	-	M. ST. CI - F.G.	12	
1	40	73	6	73	6	1	-	276	1 Tr.	-	-	Boulder Ahead	6	
2	-	-	-	74	6	-	-	310	-	-	-	Boulder	12	
2	15	-	-	75	6	-	-	310	-	-	-	Boulder - 5m. F.G	12	
2	30	75	6	75	6	1	7	345	-	-	-	< <	-	
2	55	77	-	76	10	1	10	310	-	-	-	CI - F + Md. G - 5	12	
Blanket										-	-	May 22	-	
9	45	78	6	78	3	1	9	276	2 Tr	-	-	M. CI - 5m. F.G	12	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Drilling	Pulling	Core
		3	42	6	30
Gravel	Measured				
Bedrock	None	Core			
Water Level		CREW	Delays		
		Driller	Total		
		Bertilano	55		30
Est. Wt. Gold	20 Mgs.	Panner			
		Stewart			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date					
Location	Copper Basin			Hole No.	N-3; Line 1

# DELAYS

FROM	TO	TIME LOST	CAUSE
1 45	2 15	30	Repair Clutch Control
10 -	10 30	30	screwing up Tight casing
10 15	10 45	30	Stuck drive Cap
8 30	9 -	30	cleaning clutches
8 -	10 -	2 -	Truck stuck

## GENERAL REMARKS

*Copy*  
**NATOMAS COMPANY  
 FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
10	15	80	-	80	-	1	4	2	4	1	Tr.	M. Cl-Sm. G	12	
10	52	81	6	81	5	1	8	2	4	-	-	M. Cl-Sm. G-S	12	
11	20	83	-	82	10	1	7	2	7	1	Tr.	M. Cl-F. G-S	12	
12	10	84	6	84	4	1	8	2	7	1	Tr.	M. Cl-F. G-Sm. S.	12	
12	35	86	-	86	-	1	8	3	10	-	-	Cl-F. G-S	12	
1	05	87	6	87	6	1	11	2	4	-	-	M. Cl-F. G-S	12	
2	-	90	6	90	4	7	0	3	10	-	-	M. Cl-F. G-S	12	
2	25	92	-	91	10	1	5	2	4	2	Tr.	M. Cl-F. G-S	12	
2	45	93	6	93	4	1	11	3	10	7	Tr.	M. Cl-F. G-S	12	
3	10	95	-	94	10	1	8	2	4	2	Tr.	M. Cl-F. G-S	12	
Blanket											-	May 24		
8	55	96	6	96	4	1	10	2	4	2	Tr.	M. Cl-F+Md. G	12	
9	45	98	-	97	11	1	8	3	10	6	1	M. Cl-F. G-S	12	
10	45	100	-	99	10	1	10	3	10	2	Tr.	M. Cl-F. G-S	18	
CUT sample-Slimes											-			
11	35	101	4	101	1	1	8	3	10	3	Tr.	Cl-AG-S	12	
12	30	103	-	102	11	1	10	4	14	3	Tr.	small Boulder-Cl-S	14	
1	20	104	6	104	5	1	9	4	14	2	Tr.	Cl-Md. G-S	14	
1	50	106	-	105	9	1	7	3	10	1	Tr.	Cl-G-S	16	
2	15	107	6	107	4	2	-	3	7	2	8	Cl-Md. G-S	16	
2	35	109	-	108	10	1	7	3	7	2	Tr.	Cl-Md+ F. G-S	16	
3	-	110	-	110	-	1	2	3	7	-	-	M. Cl-F. G-S	8	
CUT sample-Slimes											2	Tr.		
Blanket											-	May 25		
9	30	111	6	111	4	1	5	4	14	-	-	Cl-F+Md. G-S	16	
10	10	113	-	112	10	1	7	3	7	-	-	Cl-F. G-S	16	
10	20	114	6	116	4	1	7	2	4	-	-	M. ST Cl-Sm. F. G.	16	
10	55	116	-	115	10	1	9	3	10	-	-	M. Cl-S-F. G.	16	
11	25	117	6	117	5	1	8	3	10	1	Tr.	M. Cl-S-F. G.	16	
1	-	119	-	118	9	1	9	3	7	-	-	Cl-S-F. G.	16	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Drilling	Hz.	Min
Gravel	Measured	Pulling	6	3	30
Bedrock	Core	Delays	4	-	-
Water Level	CREW	Total	55	30	30
Driller	Bertilono				
Panner	Stewart				
Est. Wt. Gold	20 MG.				
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location	Copper Basin	Hole No.	N-3; Line 1		





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**NATOMAS COMPANY  
FIELD LOG**

TUMPING OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
1	30	120	-	120	-	1	4	310	4	Tr		CI-S-F.G.	10	
<i>GUT SAMPLE</i>														
2	20			122				483	1	Tr		CI-S-F+Md.G	24	
2	45			123				779	1	Tr		CI-S-F.G	36	
<i>May 27</i>														
10	10	123	-	122	10	2	2	310	1	Tr		CI-S-F.G		
10	45	124	6	124	4	1	6	276	6	Tr		CI-S-F.G	16	
11	35	126	-	125	11	2	2	448	2	Tr		CI-S-F.G	16	
12	30	127	6	127	6	1	2	310	3	Tr		CI-S-F.G	16	
1	10	129	-	128	10	2	-	310	2	Tr		CI-S-F.G	16	
1	50	130	6	130	4	1	6	779	2	Tr		CI-S-F+Md.G.	16	
2	25	132	-	131	10	1	4	276	3	Tr		M-CI-S-F.G	16	
3	-	133	6	133	4	1	6	276	3	Tr		M-CI-S-F.G.	16	
<i>Blanket</i>														
<i>May 28</i>														
9	15	135	-	134	10	1	4	483	1	Tr		CI-S-F.G.	16	
10	-	136	6	136	3	1	6	276	1	Tr		M-CI-S-F.G	16	
10	15			137	-			241	-			M-CI-S-F.G	6	

*28.8 \* 8.18 = 1.72*  
*137*

DEPTH		VOLUME		TIME LOG	
		Calculated	Moving	HR	Min.
Soil				3	30
Gravel		Measured	Drilling	42	-
Bedrock		Core	Pulling	6	-
Water Level			Delays	4	-
		CREW		Total	55 30
		Driller	<i>Bertilona</i>		
		Panner	<i>STEWART</i>		
Est. Wt. Gold	<i>20 MG.</i>	Mgs.	Constant Used		
Wt. Gold					
CALCULATED DEPTH		Ft.	Value Per Cu. Yd.		
Date					
Location	<i>Copper Basin</i>		Hole No.	<i>N-3; Line 1</i>	

# DELAYS

FROM	TO	TIME LOST	CAUSE
7 45	8 15	30	Repair clutch control
10 -	10 30	30	Screwing up tight casing
10 15	10 45		Stuck drive cap
8 30	9 -	30	Cleaning clutches
8 -	10 -	2 -	Truck stuck

## GENERAL REMARKS

# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line 1 Hole N-3  
Copper Basin, Nevada

1 June 1946

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0-20	20	0.227	1.10	0.1023	0.45	9.0	0.45
2	20-40	20	0.227	7.40	0.6882	3.03	60.6	1.74
3	40-100	60	0.682	3.70	0.3441	0.50	30.0	1.00
4	100-110	10	0.114	11.70	1.0881	9.54	95.4	1.77
5	110-120	10	0.114	0.60	0.0558	0.49	4.9	1.67
6	120-137	17	0.193	4.30	0.3999	2.07	35.2	1.72
TOTAL		137	1.557	28.80	2.6784	1.72		1.72

REMARKS 0.093  $\phi$ /mg  
Bedrock not reached

RBF

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# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
													May 15	
								800		-			3' Pit Sample	
9	30	5	-	5	-	1	8	414		-			ST. CI - C.G - S	14
10	30	8	-	8	-	2	10	879		-			ST. C - C + F.G - S	26
11	-	10	-	9	10	2	4	690		-			ST. C - Md. G - S	18
11	25	11	6	11	3	1	10	690		2	Tr		CI - S - Md. G	14
12	30	13	-	12	10	1	3	590		24	2		S - CI - F.G	12
1	-	14	-	13	10	1	3	414		26	3		S - CI - F.G - L	8
1	20	15	-	14	10	1	2	379		33	3		S. CI - Md. G - L	8
1	35	16	-	15	10	1	1	379		7	1		CI - S - F + Md. G	6
1	50	17	-	16	11	1	2	349		5	Tr		ST - CI - F.G - S	8
2	20	18	-	17	11	1	3	414		-			CI - S - Md. G	8
2	40	19	-	19	-	1	4	489		2	Tr		CI - S - F.G	6
3	05	20	-	20	-	1	4	414		1	Tr		CI - S - F.G	8
													Cut Sample	
													Slimes	
													Blanket	
													MAY 16.	
9	45	21	-	20	9	1	2	310		3	Tr		ST. CI - Md. G - S	8
10	-	22	-	22	-	1	5	448		2	Tr		ST. CI - Md. G - S	8
10	10	23	-	22	11	1	5	448		-			M. ST. CI - S	8
10	20	24	-	23	11	1	4	310		2	Tr		ST. CI - S - G	8
10	30	25	-	24	10	1	5	449		4	Tr		ST. CI - G - S	8
10	45	26	-	25	10	1	3	310		8	2		S - CI - G	8
11	10	27	-	26	11	1	4	449		19	2		CI - C.G - S	8
12	10	28	-	27	11	1	5	349		40	4		S - CI - G	8
12	20	29	-	28	11	1	3	449		1	23	4	S - CI - G	8
													Cut Sample	
12	35	29	8	29	8	1	2	449		5	Tr		Bed Rock	8
12	55	30	8	30	8	1	6	619		7	2		< <	12
1	30			32	8			620					< <	24

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Hr.	Min	
	428	9.1 cu. ft	3	-	
Gravel	292 x 8.18 = 119	6.3 " "	9	-	
Bedrock	29' - 8"	5.7 " "	3		
Water Level		CREW	Delays	1	30
		Driller Bertilone	Total	16	30
Est. Wt. Gold	24 MG	Panner Stewart			
Wt. Gold	428	Mgs.	Constant Used	7 1/2"	shoe
CALCULATED DEPTH 29.5 Ft.		Value Per Cu. Yd. 11 9/4			
Date 5-21-46					
Location Copper Basin		Hole No. N-2-Line 1			



# NATOMAS COMPANY

## DRILL HOLE VALUE CALCULATIONS

Line 1 Hole N-2  
 Copper Basin, Nevada

22 May 1946

SAMPLE NUMBER	POSITION	DEPTH FEET	VOLUME CUBIC YARDS	WEIGHT AV. IN MGS.	VALUE AV. AT \$ 29.00	VALUE CENTS PER YARD	DEPTH TIMES VALUE	CUMULATIVE VALUE
1	0-20	20	0.227	13.0	1.208	5.32	106.4	5.32
2	20-29.5	9.5	0.108	29.8	2.767	25.7	244.0	11.9
	TOTAL	29.5	0.3353	42.8	3.975	11.9		11.9

REMARKS      0.093 g/mg  
 Bedrock at 29.5'

R.B.F.

# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
													May 7 1946	
													3' Pit Sample	
10	-	4		4	-	2	-	345				-	M. ST. CI-Sm. F.G	
10	40	5	6	5	5	1	11	650				-	M. ST. CI-Sm. F.G	20
11	15	7		6	11	1	6	650				-	ST. CI-F.G.	18
11	45	8	6	8	6	1	5	550				-	ST. CI-F.G.	12
12	50	10		10	-	1	10	790				-	ST. CI-S-F.G	12
1	05	11	6	11	6	1	4	517				-	ST. CI-S-F.G.	12
1	30	13	0	13	-	1	11	345				-	CI-S-FG	6
1	50	14	6	14	2	1	5	317	2	Tr		-	CI-S-FG	6
2	30	16		15	11	1	6	379				-	ST. CI-S-Sm. F.G	6
2	45	17	6	17	4	1	6	349				-	CI-S-Sm. F.G	6
3	05	19		18	9	1	5	345	1	Tr		-	CI-S-Sm. F.G	6
3	20	20		20	-	1	2	345	2	Tr		-	S-CI-Sm. F.G	3
								511 mcs				-		
													May 8	
9	10	21	6	21	5	1	11	345				-	CI-S-Sm. F.G	
9	35	23		22	10	1	10	379				-	CI-S-Sm. F.G	
10	10	24	6	24	3	1	10	345				-	ST. CI-S-Sm. F.G	
10	30	26		26	-	1	9	372				-	M. ST. CI-S-G	
11	-	27	6	27	6	1	6	379				-	M. ST. CI-S-G	
11	30	29		28	11	1	9	345				-	M. ST. CI-S-Sm. F.G	
12	20	30		30	-	1	6	414				-	ST. CI-S-Sm. F.G	
12	45	31	6	31	6	1	10	414	1	Tr		-	G-CI-S	
1	10	33		33	-	1	11	553	2	Tr		-	CG.-CI-S	
1	30	34	6	34	5	1	10	345	4	Tr		-	G-CI-S	
2	-	36		35	11	1	9	315				-	CI-G-S	
2	35	37	6	37	5	1	9	310	5	Tr		-	M. CI-S-G	
2	50	39		38	10	1	8	414	1	Tr		-	CI-S-G	
3	15	40		40	-	1	6	414	1	Tr		-	C.G-CI-S	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	22.6	cu. FT.	Moving	45 MIN
Gravel	Measured	13.1	✓	Drilling	17 -
Bedrock	73' 11"	Core	15.8 ✓	Pulling	7-30
Water Level		CREW		Delays	12-45
		Driller	Bartolino	Total	37-15
Est. Wt. Gold	14 MG.	Panner	STewart		
Wt. Gold	17.65	Mgs.		Constant Used	7 1/2" SHOE
CALCULATED DEPTH		73.9	Ft.	Value Per Cu. Yd.	1 1/2
Date					
Location			Copper Basin	Hole No. N-1, LINE 1	





# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
		Hrs	Min	Ft	In				Ft	In	Ft			
May 9														
Blanket														
1	10	41	6	41	3	1	10	379	-	-	-	-	CI-S-G	14
1	25	43	-	42	11	1	11	414	-	-	-	-	CI-S-G	11
1	50	44	6	44	6	1	9	345	-	-	-	-	ST.CI-G-S	10
2	15	46	-	45	10	1	11	529	1	TR	-	-	CI-S-F.G-L	10
2	30	47	6	47	4	1	7	449	-	-	-	-	CI-F.G-S-L	12
May 10														
9	45	49	-	48	10	1	10	345	1	TR	-	-	S-CI-F.G	10
May 11														
8	30	50	-	49	10	1	7	379	1	1MG	-	-	S-CI-F.G	10
Slimes														
9	-	51	6	51	6	1	9	310	5	1MG	-	-	C-S-F.G-L	12
9	45	53	-	52	9	1	11	349	3	1	-	-	S-CI-F.G.	12
10	-	54	-	53	10	1	3	345	-	-	-	-	S-CI-F.G.	6
10	20	55	-	54	10	1	4	379	1	1MG	-	-	ST.CI-S-F.G.	6
10	35	56	-	55	10	1	2	379	5	TR	-	-	ST.CI-S-F.G.	6
10	55	57	-	56	10	1	6	345	11	1MG	-	-	CI-S-Md.G.	6
11	15	58	-	57	11	1	5	379	7	2MG	-	-	CI-S-Md.G.	6
11	30	59	-	58	11	1	4	379	10	2	-	-	CI-S-Md.G.	6
12	20	60	-	59	10	1	2	345	1	TR	-	-	ST.CI-S-F.G.	6
Slimes														
12	45	61	-	61	-	1	4	379	1	1	-	-	CI-S-F.G.	6
1	-	62	-	62	-	1	2	310	1	TR	-	-	CI-S-F.G.	8
1	35	63	-	63	-	1	1	310	-	-	-	-	S-CI-Sm.F.G.	6
1	50	64	-	63	11	1	2	310	2	TR	-	-	CI-S-F.G.	6
2	10	65	-	64	10	1	2	345	11	1	-	-	S-CI-Sm.F.F.G.	6
2	25	66	-	65	10	1	4	310	7	1	-	-	CI-S-Md.G.	6
2	40	67	-	66	10	1	5	345	6	1	-	-	CI-S-Md.G.L	6
3	10	68	-	67	10	1	4	345	1	TR	-	-	S-CI-F.G.L	6

DEPTH	VOLUME	TIME LOG	
		HR.	Min
Soll	Calculated	Moving	
Gravel	Measured	Drilling 17 -	
Bedrock 73' 11"	Core	Pulling 7 30	
Water Level	CREW	Delays 1 2 45	
Est. Wt. Gold 14 MG.	Driller Bertolino	Total 37 - 15	
Wt. Gold	Panner Stewart		
	Mgs.	Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.	
Date			
Location Copper Basin	Hole No. N-1, LINE 1		



# NATOMAS COMPANY FIELD LOG

TIME OF PUMPING		DEPTH OF				CORE	MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g				SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3			
10	30	69		68	10	14		2	Tr		Cl-S-Md G.	6	
								-			Md G.		
								2	Tr		Blanket		
10	40	70		70		15		-			S-Cl-Md G.	6	
								-			Cut sample		
11	20	71		70	10	14	276	1	Tr		S-Cl-Md G.	6	
11	35	72		71	10	14	345	-			S-Cl-Md G.	8	
12	20	73		73		13	510	-			S-Cl-F G.	8	
12	45	74		73	11	14	379	-			Bedrock	8	
1	05	75		75		13	314	-			<	6	
							310	-			<	12	
							310	-			<	24	

$$\frac{093 \times 27}{3068} = 8.18$$

$$\frac{17.6 \text{ mg}}{73.9 \text{ g}} \times 8.18 = 1.92$$

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving			
Gravel	Measured	Drilling	17	-	
Bedrock	73' 11"	Core	Pulling	7-30	
Water Level		CREW	Delays	12-45	
		Driller	Total	37-15	
Est. Wt. Gold	14 MG.	Panner			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
Date					
Location	Copper Basin	Hole No.	N-1, LINE 1		



*Copy*  
**NATOMAS COMPANY**  
**FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
													June 1 -46	
		5	-										Top Soil	
		10	-					860			-		Cl-Md+F.G	
		20	-					860			-		Cl-Md+F.G-Sm.S.	
4		20	-	30	-									
		30	-					860			-		June 3 ST.Cl-F+Md.G-S	
		40	-					860			-		Cl-F.G-S	
		50	-					860			-		Cl-F+Md.G-S	
		56	-					860			-		S-Cl-F.G-L	
4		65	-										June 4	
		65	-					860			-		S-F.G-Cl-L	
		75	-					860			-		Sandy.Cl-Sm.F.G-L	
		85	-					860			-		S-F+Md.G-Cl	
4		95	-					860			-		S-F.Md+sm.C.G-Cl L	
		105	-					860			2 Tr.		June 5 M.S-Cl-Sm.F.G	
		115	-					860			2 Tr.		Fine Sandy Clay	
		125	-					860			-		Fine Sandy Clay	
		135	-					860			-		Fine Sandy Clay	
		142	-					860			-		June 6 S-F.G-Cl	
		150	-					860			-		June 7 S-F.G-Cl	
		160	-					860			-		S-F+Md.G-Cl	
		170	-					860			-		S-F.Md+C.G-Cl	

DEPTH	VOLUME	TIME LOG	
		Hrs	Min
Soil	Calculated	Moving	6 30
Gravel	Measured	Drilling	32 -
Bedrock	Core	Pulling	8 30
Water Level	CREW	Delays	10 30
	Driller <i>Bertilano</i>	Total	57 30
Est. Wt. Gold	Panner <i>STEWART</i>		
Wt. Gold	Mgs.	Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.	
Date			
Location		Hole No. <i>RV-N1</i>	



*Copy*  
**NATOMAS COMPANY  
 FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In	1	2	3				
		10	-											
		20	-					860		-			Top Soil	
		30	-					860	4	Tr			M.Cl-Sm.F.G-S	
		40	-					860		-			Cl-F.G.-S	
		50	-					860		-			M.Cl-S-F.G.	
		60	-					860		-			M.Cl-S-F.G.	
													June 13	
		85	-					860		-			Sandy.Cl-Sm.F.G	
		105	-					860		-			Sandy.Cl-Sm.F.G	
		125	-					860		-			Sandy.Cl-Sm.F.G	
		143	-					860		-			Sandy.Cl-Sm.F.G	
													June 14	
		162	-					860		-			Cl-Sm.S	
				170	-			860		-			Cl-Sm.S	

DEPTH		VOLUME		TIME LOG	
Soil	Calculated	Moving	Drilling	Min	Max
Gravel	Measured		18		
Bedrock	Core		Pulling	13	
Water Level		CREW	Delays	4	
	Driller	Bertolino	Total	41	
Est. Wt. Gold	Panner	Stewart			
Wt. Gold	Mgs.	Constant Used			
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.			
	Date				
Location		Hole No.	RV4N2		



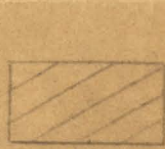
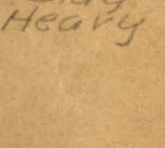
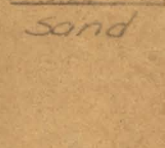
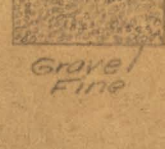
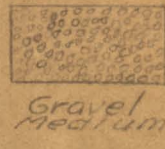


*Copy*  
**NATOMAS COMPANY  
FIELD LOG**

TIME OF PUMPING		DEPTH OF				CORE		MEAS. CORE	No. of COLORS			TOT. EST. MGS.	FORMATION	DRILLED BELOW INCHES
		Pipe		Pump'g					SIZE					
Hrs	Min	Ft	In	Ft	In	Ft	In		1	2	3			
				10	-			860			-		CI-F.G-S	
				20	-			860			-		CI-F+Sm.MdG-S	
				30	-			860			-		CI-F.G-S	
		40	-					860			-		CI-S-FG	
		30	-					860			-		FG-S-CI	
		60	-					860			-		FG-S-Sm.MdG-CI	
		68	-					860			-		S-F.G-CI-Sm.MdG	
		78	-					860			-		S-F.G-CI-Md.G	
		85	-					860			-		S-CI-FG-MdG.	
		95	-					860			-		CI-S-FG.	
		105	-					860			-		S-CI-FG.	
		114	-					860			-		S-CI-FG.	
		124	-					860			-		S-F.G-CI-Sm.MdG	
		130	-					-			-		S-F.G-CI-Md G.	
		134	-					860			-		S-F+Md.G-CI	
		143	-					860			-		S-F+Md.G -CI	
		147	-					-			-		S-F+Md.G-Sm.CI	
		152	-					860			-		S-F+Md.G-Sm.CI	
		161	-					860			-		S-F+Md.G.-CI	
				164				-			-		S-G-CI	
		172	-					860			-		S-Sm.F+Md.G-CI	
		180	-					860			-		S-F+MdG-Sm.CI	

DEPTH	VOLUME	TIME LOG	
		hr	min.
Soil	Calculated	Moving	6 -
Gravel	Measured	Drilling	68 -
Bedrock	Core	Pulling	11 -
Water Level	CREW	Delays	3 30
Driller	Bertolino	Total	88 30
Est. Wt. Gold	Panner	Stewart	
Wt. Gold	Mgs.	Constant Used	
CALCULATED DEPTH	Ft.	Value Per Cu. Yd.	
Date			
Location		Hole No.	RV-N3





4750

4700

4650

4600

4550

4500

RVN-2  
4655'

Water Lev.  
4625'

RVN-1  
4682'

Water raised this level  
Water Level (Orig) 4622'

RVN-3  
4739'

Water raised to this level within 24 hrs  
Water Level (Orig) 4619'

ISBE #4  
4757'

10" casing available for 607'

Water raised to this level, perf start  
Water Level (Orig) 4618'  
Prod. 212 gpm @ 1520 rpm

Bottom perforations in Bedrock

4767'

12" casing not available for 607'

Water raised to this level  
Water Level (Orig) 4622'  
start perf's.

66 gpm @ 1430 rpm  
62 gpm @ 1425 rpm

Bottom perf. in Bedrock

NATOMAS COMPANY

GREENAN PLACERS OPERATION  
LOGS OF DRILL HOLES & WELLS

BEESE VALLEY

DRAWN RB  
TRACED

# BATTLE MOUNTAINS

NATOMAS COMPANY  
GREENAN PLACERS OPERATION  
DREW BY REESE VALLEY AREA SHOW.

Note: Water Level Elevations based on IS&R #4 as datum level.

GREENAN PLACERS

Top 31 N R 43 E  
Top 30 N R 43 E

Top 30 N R 43 E



Wells  
Cull. el. - 4624  
Water level - 4619

Reese R  
Cull El.  
Water Level

# FIELD LOG

SHAFT NO. 1

LOCATION **Copper Basin**

3/25/46

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
	M Gr & S	1	4'	4'	4'x5'	2	2.33	.14mg	.18%	LL	JS	LL
	" " " "	2	5'	9'	"	2.5	2.66	1.08mg	1.08%	"	"	"
	" " F Gr	3	5'	14'	"	2.5	2.68	.20"	.20%	"	"	"
	" " " "	4	5'	19'	"	2.5	2.76	.31"	.31%	"	"	"
	" " Sand	5	5'	24'	"	2.5	2.64	7.99"	8.03%	"	"	"
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										
		21										
		22										
		23										
		24										
		25										
		26										
		27										
		28										
		29										
		30										

NOTES: Sample cut out of north side of shaft. Sample size 6" by 12" per linear foot of shaft.

Bottom of shaft not to bedrocks.

DEPTH	24'
VALVE	2.03% per cu. yd
W. L.	Not reached
B. R.	Not reached

# FIELD LOG

SHAFT NO. 2

LOCATION Copper Basin

3/23/48

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
	Soil; F Gr	1	3'	3'	4'x5	1.5	1.28	.20mg	.33%	LL	MB	LL
	Med. gr.	2	4'	7'	"	2.0	2.40	.60"	.75%	"	"	MB
	" "	3	5'	12'	"	2.5	2.88	.89	.89%	"	"	"
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
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		20										
		21										
		22										
		23										
		24										
		25										
		26										
		27										
		28										
		29										
		30										

NOTES: Sample cut out of north side of shaft. Sample size 6" deep, 12" wide per linear foot of shaft.

Bottom of shaft not to bedrock.

DEPTH	12'
VALVE	.71% per cu. yd
W. L.	12 feet
B. R.	Not reached

# FIELD LOG

SHAFT NO. 3

LOCATION Copper Basin

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
3/19/46	Med. gr	1	5'	5'4"x5'	2.5	2.98	.02mg	.021%	LL	MB	MB
	" "	2	4'	9'	"	2.0	2.37	.11 "	.138%	"	" "
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			10								
			11								
			12								
			13								
			14								
			15								
			16								
			17								
			18								
			19								
			20								
			21								
			22								
			23								
			24								
			25								
			26								
			27								
			28								
			29								
			30								

NOTES: Sample cut out of west side of shaft. Sample size 6" deep, 12" wide per linear foot of shaft.

Bottom of shaft not to bedrock.

DEPTH	9'
VALVE	.07% per cu. yd
W. L.	Not reached
B. R.	" "

# FIELD LOG

SHAFT NO. 5

LOCATION Copper Basin

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
3/18/46	Soil; M Gr.	1	3'	3' 5' x 8'	1.5	2.32	.07mg	.12%	MB	LL	LL
	Med Gr.	2	5'	8'	"	2.5	2.69	.10 "	.10%	"	"
		3									
		4									
		5									
		6									
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
		21									
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

NOTES:

Sample cut out of south side of shaft. Sample size 6" deep, 12" wide per linear foot of shaft.

Bottom of shaft not to bedrock.

DEPTH	8'
VALVE	.11% per cu. yd.
W. L.	Not reached
B. R.	" "



# FIELD LOG

SHAFT NO. 7

LOCATION Copper Basin

3/27/46

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
	M & F Gr.	1	4'	4' 5"x7'	2	2.3	.20	.25¢	LL	JS	LL
	" "	2	5' 9'	"	2.5	2.78	1.06	1.06¢	LL	JS	LL
	M Gr; Sand	3	5' 14'	"	2.5	2.69	.33	.33¢	LL	JS	LL
	Med. Gr; BR	4	5' 19'	"	2.5	2.81	.11	.11¢	LL	JS	LL
		5									
		6									
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
		21									
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

NOTES: Sample cut out of east side of shaft. Sample size 6" by 12" per linear foot of shaft.

DEPTH	19'
VALVE	.45¢ per cu. yd
W. L.	Not reached
B. R.	

19'

# FIELD LOG

SHAFT NO. 3

LOCATION Copper Basin

4/4/46

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
	Soil, S.G.	1	7.5	7.5	5x6	3.75	4	2.95	1.97	MB	LL	LL
	Med to F.G	2	5.0	12.5	"	2.50	3.16	20.88	20.96	MB	LL	LL
	Med. Gr.	3	2.0	14.5	"	1.0	1.12	21.10	52.96	MB	LL	LL
	M&FG; BR	4	5.0	19.5	"	2.50	3.54	78.90	79.22	MB	LL	LL
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
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		21										
		22										
		23										
		24										
		25										
		26										
		27										
		28										
		29										
		30										

NOTES: Bottom 7 feet of sample (bedrock sample) cut in drift 6' north of center of shaft. All sample cuts 12" wide and six inches deep. Remainder of samples cut in west side of shaft.

DEPTH	19.5 feet
VALVE	31.8¢ per cu. yd
W. L.	Not reached
B. R.	19.5 feet

# FIELD LOG

SHAFT NO. 9

LOCATION Copper Basin

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN		
									SHAFT	HOIST	ROCKER
4-23-46	Med & Cse Cr	1	5' 7"	6" x 6"	2.5	2.88	0.6mg	.60%	MB	LL	LL
	" " " "	2	5' 12"	"	2.5	2.61	0.68mg	.68%	"	"	"
		3									
		4									
		5									
		6									
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
		21									
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

NOTES: **Sample size 6" deep by 1' wide per linear foot of shaft.**

DEPTH	12'
VALVE	0 6/4 per cu yd
W. L.	Not reached
B. R.	Not reached

# FIELD LOG

SHAFT NO. 10

LOCATION Copper Basin

DATE	FORMATION	SAMPL.	DEPTH	DIAM.	CU. FT. EXCAVATION	CU. FT. BOX MEASURE	GOLD RECOVERED	VALVE PER CU. YD.	WORKMEN			
									SHAFT	HOIST	ROCKER	
4/27/46	F S & Gr.	1	3'	3'	5'x7	1.5	1.86	2.5mg	4.2¢	MB	LL	LL
	" " " "	2	5'	8'	"	2.5	2.97	0.3mg	0.3¢	"	"	"
4/26/46	FS, SmGr, Cl	3	5'	13'	"	2.5	2.69	0.0mg	0.0¢	"	"	"
	" " " "	4	5'	18'	"	2.5	2.97	0.1mg	0.1¢	"	"	"
4/25/46	Med S&Gr, Cl	5	5'	23'	"	2.5	3.53	2.9mg	2.9¢	"	"	"
	" " " "	6	5'	28'	"	2.5	2.97	0.1mg	0.1¢	"	"	"
4/26/46	Coe Gr, Cl	7	5'	33'	"	2.5	2.78	10.8mg	10.8¢	"	"	"
		8										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		17										
		18										
		19										
		20										
		21										
		22										
		23										
		24										
		25										
		26										
		27										
		28										
		29										
		30										

NOTES: Sample size 6" deep and 1' wide per linear foot of shaft. The bottom of the shaft was filled with dirt with the tops of drifts running both north and south barely visible. Bedrock is presumably at the bottom of the drift, or 6 to 7' below the bottom cut at 33'.

DEPTH	33'
VALVE	2.5¢ per cu yd.
W. L.	Not reached
	No - see note.

# NATOMAS COMPANY

*Greenan Placers Operation*

POST OFFICE BOX 379

BATTLE MOUNTAIN, NEVADA

14 May 1946

Ser C-1

C-O-N-F-I-D-E-N-T-I-A-L

To: Mr. R. G. Smith, Department Manager

Subj: Copper Basin Prospecting

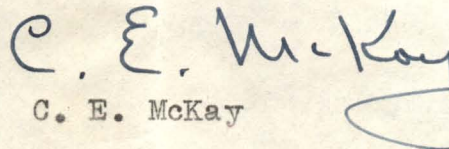
Encls: (A) One Print of Dwg. #G-6000  
(B) One Print of Sketch # 15  
(C) One Print of Sketch # 16  
(D) Copy of Shaft Logs for Shafts #1 thru #10,  
Shafts #4 and #6 were not sampled.

1. The following data obtained from the Copper Canyon Mining Company is supplementary to enclosures (A) thru (D):

(a) International Smelting and Refining Company's Drill Holes and Shaft Samples:

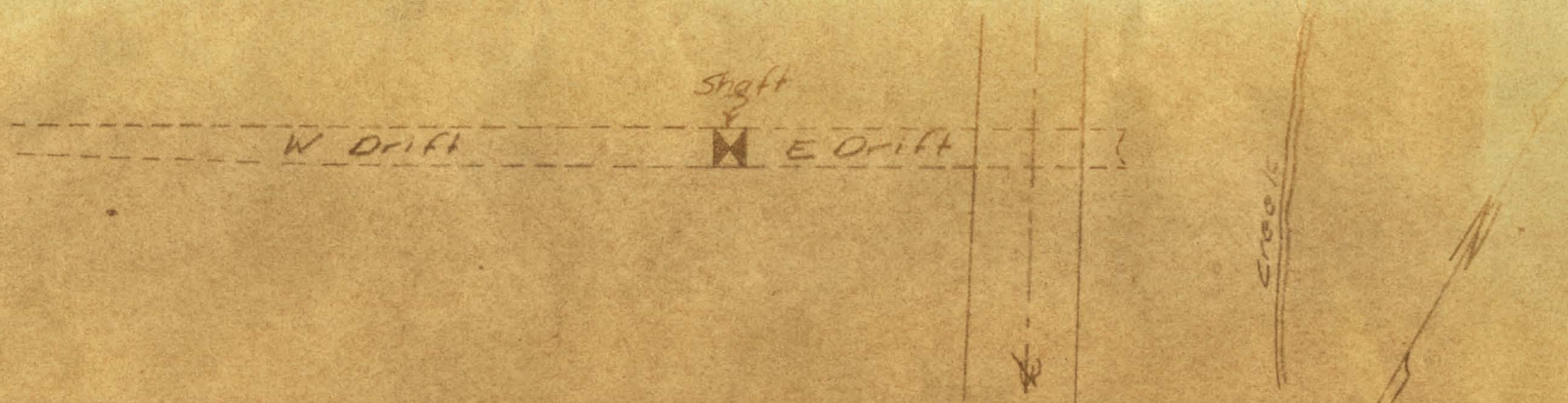
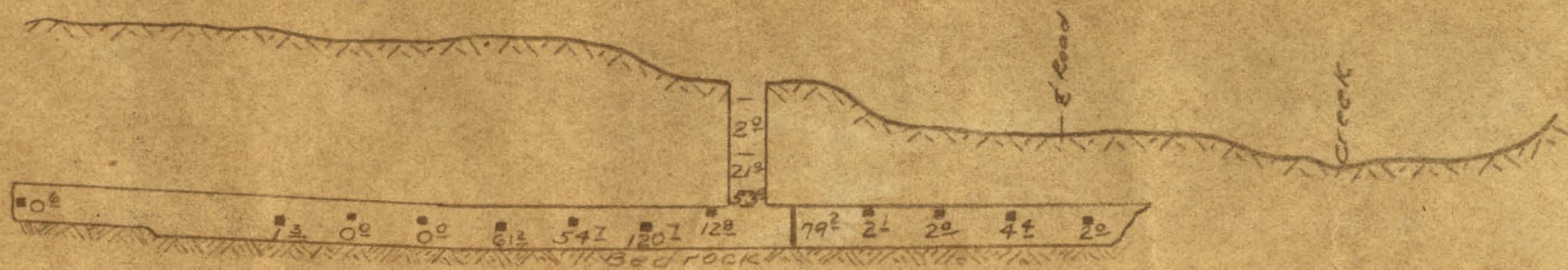
✓	Hole A	33'	@	13.4¢	per cu. yd.
	Hole B	30'	@	1.4¢	per cu. yd.
✓	Hole E	70'	@	2.9¢	per cu. yd.
✓	Hole F	99'	@	6.3¢	per cu. yd.
	Hole G	60'	@	4.8¢	per cu. yd.
✓	Hole G	60' to 120'	@	0.8¢	per cu. yd.
✓	Hole H	90'	@	4.7¢	per cu. yd.
✓	Hole J	24' to 91'	@	3.2¢	per cu. yd.
	Shaft # 1	2' to 25'	@	5.0¢	per cu. yd.

2. Five Drill Holes have been located on line with International's G, F and H holes. At this date Hole I-N is being drilled. Copies of drill logs and calculations will be forwarded to you and to Mr. R. H. Raring as the drill holes are completed.

  
C. E. McKay

cc: R. H. Raring w/encls  
Engineer w/encls  
File w/o encls

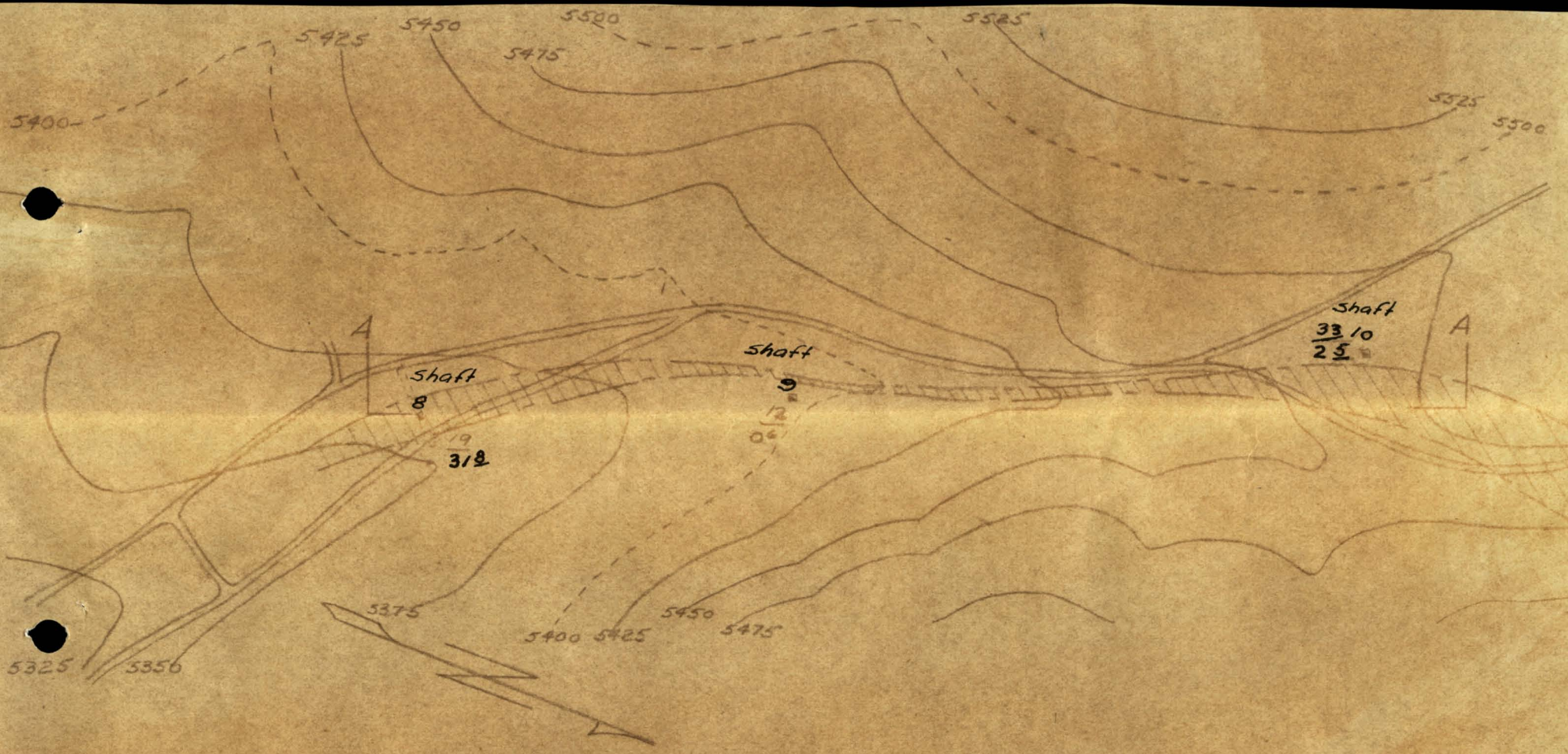




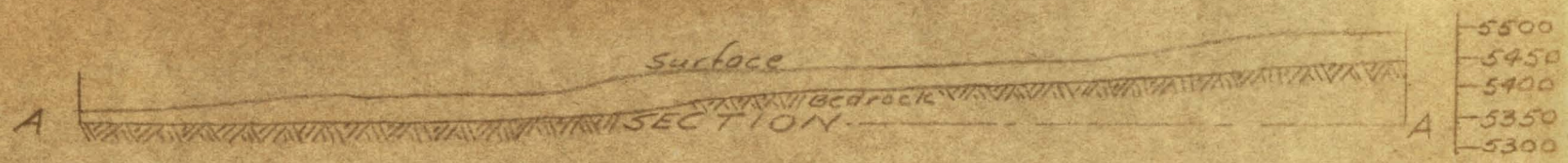
PLAN

ASSAY MAP OF SHAFT #8  
 & TRIBUTARY DRIFTS  
 COPPER BASIN, NEV.  
 Scale: 1"=25'

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 RBT.  
 SKETCH # 15



PLAN



PLAN & SECTION OF CHANNEL  
 ABOVE COPPER BASIN CAMPSITE

Scale - 1" = 300'

NATOMAS CO.  
 GREENAN PLACERS  
 RBT  
 SKETCH #16