

3440 0031

Abstract

Seventy-five lithogeochemical samples were collected from the Paiute claim blocks and analyzed for Ag, As, Au, Ba, K, Sb, Sr, and Tl. Au values range from <.002 to 0.01 oz/ton and Ag values range from <0.01 to 0.09 oz/ton. A fluid inclusion survey reveals the presence of type I fluid inclusions.

Temperature of homogenization ranged from 135-288 °C.

Equivalent weight percent NaCl ranged from .18 to 4.0 percent.

The fluid inclusions do not indicating boiling. However, a boiling zone exsists at depth based on the wide temperature range, low salinities and variable phase ratios.

Anomalous values of Ag, As, Au, Ba, Sb and Tl indicate a supra-ore body. The geochemical pathfinders delineate mineralization along the Paiute fault zone in 3 seperate areas and in Section 8. As, Sb, K/Tl, Ba/Tl and Tl/Sr indicate potential mineralization in section 8. Gold and silver values delineate mineralization in the far west and west zone.

				List of	Tables			
Table	1. M	1e an	values,	standard	deviation	and	threshold	
	·	alue	s for n	onminerali	zed sample	95		7

List of Figures

Figure	1.	Supra-or vs sub-ore halo9
	2.	Fluid inclusion Type classification16
	з.	Temperature of homogenization17
	4.	Equivalent weight percent NaCl18
	5.	Boiling-water model
	6.	Temperature vs. salinity plot21
	7.	Temperature vs. salinity plot of prospect22
	8.	Buchanan epithermal model23
	9.	Berger and Eimon hot spring model24

Table of Contents

Abstr																															
List	of	tab	ole	s.	•								•	•									•	•			•		•		. 2
List	of	fiç	gur	es								• •	•			• •								•							3
Intro	duc	tic	on.								•			•		• •		•			•					•	•				, 5
Litho	ged	che	em i	ca	1	su	rı	, e	y				•								•			•			•				. 5
	Or i	eni	tat	i o	n	su	rı	/e	Y												•	•		•							. 5
	Sup	ra-	-or	e (vs	s	ut) –	01	· e	1	bo	d	Y	•					 •	•	•	•				•		•		. 6
	Au	and	A b	9.							•			•	•		• •			 •		•	 •		• •	•	•	• •		. 1	1 1
	As	and	s t	ь.		• •					•												 •	•		•	•			. 1	1
	K/T	1 r	at	io							•											•		•		•	•	• •		. 1	1 2
	Ba/	TI	ra	ti	٥.														•		•		 •			•	•	•		. 1	13
	TIZ	'Sr	га	ti	٥.											•					•			•			•			. 1	13
Fluid	Ir	icli	ısi	on	S	ur	Ve	e y			•					•		•	•	 •		•		•			•			. 1	14
		scr	0.00																				30								
	fre	ez	ing	m	ea	su	re	em	e	n t	S							•	•	 •			 •	•		•	•			. 1	14
	Dis	scus	55 i	on			•					. ,			 •					 •						•		•	٠.	•	1 5
Summa	ry.																	•	•		•									. :	20
Appen	di>	·																				•	 •			•				. :	26
Refer	end	es				••	•		•		•				 •						•				• •		•	•		. :	30
Plate	s.,						•												•					•	Ir	1	P	00	= K	e	t

Introduction

A lithogeochemical survey was undertaken to confirm and delineate mineralized zones at the Paiute claim blocks. To determine potential targets, a suite of geochemical pathfinders consisting of Ag, As, Au, Ba, K, Sb, Sr, and Tl were utilized. Geochemical analyses were conducted by Chemex Labs Ltd of Vancouver, British Columbia. A total of 75 lithogeochemical samples were collected from July 13 through July 23, 1986. A fluid inclusion survey was conducted to determine the vertical position of the claim blocks in a volcanic hosted epithermal precious metal system. Twenty-four vein samples were collected from July 13 through July 15, 1986. Heating and freezing measurements were conducted using the fluid inclusion system at Eastern Washington University from August 19 through August 21, 1986.

Lithogeochemical Survey

Seventy-five 1 kg lithogeochemical samples were collected for geochemical analyses. The samples are a composite of several chips taken from outcrop. They were analyzed for Ag, Au, by fire assay; As Sb, Tl, by selective method; and a package of 24 elements by ICP-ES. Plate 1 shows the sample locations.

Orientation Survey

Fifteen unmineralized lithogeochemical samples were collected during an orientation survey to determine background values for the Paiute prospect. Thirteen samples were collected from the lower member and 2 from the middle and upper members. Appendix Table A lists the 15 samples. The lower member varies between a purple crystalline tuff and a purple lapilli tuff containing purple and/or green lapilli. Samples 86-0054-PR, 072, 075, 087, 089, 091, and 093 effervesce with 10 % HC1.

Samples 86-030-PR and 86-037-PR were collected from the middle member. Sample 86-030-PR is a gray lithic tuff and sample 86-037-PR is a purple lapilli tuff containing green lapilli. Sample 86-064-PR and 86-065-PR were collected from the upper member. They are a purple crystalline tuff and sample 86-065-PR effervesces. Eventhough the samples appear unalterd in hand specimen all maybe slightly altered. Sixty altered samples were collected from the lower and middle member. The lower unit is exhibiting silicification and/or propylization. The middle unit is bleached (argillization) and silicified (Payne, 1984 Denison Mines in-house document). background samples mean value, standard deviation, and threshold value for Ag, As, Au, Ba, K, Sb, Sr, Tl, K/Tl, Ba/Tl and T1/Sr are shown in Table 1. Threshold values were determined using the mean plus 2 standard deviations (Levinson, 1980; Rose and others, 1983).

Supra-ore vs. Sub-ore

Table 1 Mean values, standard deviation, and threshold value for non mineralized samples.

Eleme	nt	x	Ē	n	threshold
Ag	oz/ton	*		15	0.01
Au	oz/ton	*		15	.002
As	ppm	6.20	3.90	15	14.0
Ва	ppm	1279	270	15	
К	%	4.27	.705	15	
Sb	ppm	.887	.583	15	2.05
Sr	ppm	391	191	15	
TI	ppm	.567	.052	6**	
K/T1		6.83	.751	6	5.33
Ba/T1		24.0	5.25	6	13.5
T1/Sr		14.0	8.03	6	30.1

 $\overline{X} = Mean$

 $\overline{S} = Standard deviation$

n = number of samples

* = not calculated due to detection limit

**= 9 samples are being re-analyzed at report time

Levinson, 1980 cites an example of a supra-ore and sub-ore halo (Figure 1). At the Paiute prospect at least two levels of erosion are present. The highest level represented by bleaching (argillization) and a lower level represented by silicification and/or propylization.

Beus and Grigorian, 1977; Levinson, 1980; Rose and others, 1983, document the vertical zonation of trace elements in steeply dipping ore bodies. From top (supra-ore) to bottom (sub-ore) the sequence is:

Ba-(Sb,As,Hg)-Cd-Ag-Pb-Zn-Au-Cu-Bi-Ni-Co-Mo-U-Sn-Be-W

Thallium being a lithophile element and found in high concentrations in active near surface geothermal systems can be included with Sb, As, Hg and can be used as an indicator of a supra-ore body (De Alburque and Shaw, 1972; White, 1981). All the above elements, except Hg, U and Sn, were utilized as geochemical pathfinders in the sampling survey. Table 2 compares the background values of granites and granodiorites against the ranges of the elements at the prospect. The data shows that Ba, Sb, As, Tl, Ag, Pb, Zn and Au are anomalous, whereas, the sub-ore elements are not. This strongly indicates the current erosion level at the Paiute prospect is above a supra-ore body.

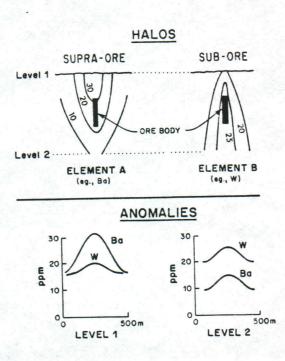


Figure 1. Supra-ore vs. Sub-ore halo (Levinson, 1980)

Table 2 Comparison of Granite and Granodiorite background values to Paiute prospect values.

	Levir	ison, 1980	Paiute Range *	
Element	Granite	Granodiorit	e	
Ва	600	500	145-1870	
Sb	.200	.200	.2-6.8	
As	1.5	2.0	2-180	
TI	.750	.500	.3-1.6	
Cd	.200	.200	<.5	
Ag	.04	.07	<.2-5.6	
РЬ	20.0	15.0	14-56	
Zn	40.0	60.0	3-120	
Au	.004	.004	<.00201**	
Cu	10.0	30.0	4-29	
Bi	.010			⟨2
Ni	.500	20.0	<1-7	
Со	1.00	10.0	<1-8	
Мо	2.00	1.00	<1-135	
Be	5.00	2.00	<.5-14.5	
W	2.00	1.00	<10-20	

^{* =} Range includes non-mineralized and mineralized samples
**= All values report as ppm except Au at Paiute prospect which
is reported as oz/ton

The precious metal values of the survey were generally below the detection limit of .002 oz/ton Au and 0.01 oz/ton Ag. However, using a threshold value of .002 oz/ton Au 7 of the 60 mineralized samples are anomalous. A silver threshold of 0.01 oz/ton indicates 8 of the 60 mineralized samples are anomalous. Plate 3 is a plot of Au and Ag. The plot indicates 2 potential zones of mineralization. The S 1/2, NW 1/4 section 17 (far west zone) and the center of section 17, which has been identified as the west mineralized zone during the 1984 lithogeochemical sampling survey.

As and Sb

The mean background value of As is 6.20 ppm, standard deviation of 3.90 ppm and a threshold value of 14.0 ppm. Eighteen of the 60 mineralized samples are anomalous (Appendix, Table A). Plate 4 is a plot and contour diagram of As. Arsenic as a pathfinder delineates a potential mineralized zone in section 8 and in the NE 1/4 of section 17. Arsenic in active geothermal systems and epithermal vein systems occur in the upper levels (Buess and Grigorian, 1977; Ewars and Keys, 1977; White, 1981). At the Paiute prospect As appears to be anomalous in the areas where least erosion has occurred indicating the upper levels of hydrothermal activity. Samples 86-051-PR, 86-053-PR and

86-068-PR are anomalous indicating potential mineralization in the far west zone.

Antimony has a mean background value of .887 ppm, standard deviation of .553 ppm and a threshold value of 2.05 ppm.

Eleven of the 60 mineralized samples have anomalous values.

Plate 4 is a plot and contour diagram of Sb. This diagram indicates a potential mineralized zone in the far west zone.

Generally Sb appears to be delineating a widespread alteration.

K/T1 X 10 4 Ratio

Due to K+ (1.33 A) geochemical relationship with Tl+ (1.47 A), thallium is incorporated into K-bearing minerals (Vlasov, 1966; De Alburque and Shaw, 1972; Hahn, 1986, Ikramuddin, 1982; Ikramuddin and others, 1983; 1986; Massa and Ikramuddin, 1986). Due to their relationship Tl will increase relative to K from non-mineralized rocks to mineralized rocks resulting in a decreasing K/Tl X 10⁴ ratio. At the Paiute prospect the mean background value is 6.83, standard deviation .052 and a threshold value of 5.33 (Table 1). Twenty-six of the 60 mineralized samples have anomalous ratios (Appendix Table A). Plate 5 is a plot and contour diagram of the anomalous values. The diagram shows 4 areas of potential mineralization. The ratio confirms mineralization in the east and west zone. It delineates potential mineralization in the far west zone and in section 8.

Ba/T1 X 10 Ratio

Barium is depleted during magmatic differention and during hydrothermal processes it will decrease (Brobst, 1958; Fischer, 1972: Puchelt, 1972). K+ (1.33 A) and Ba 2+ (1.34 A) have similiar ionic radii amd Ba 2+ will be incorporated into K bearing minerals. Therefore, during hydrothermal processes Ba will decrease and Thallium will increase resulting in the Ba/T1 X 10² ratio to decrease from non-mineralized to mineralized rocks (Hahn, 1986; Ikramuddin, 1983; Massa and Ikramuddin, 1986). The mean background value is 24.0, standard deviation of 5.25 and a threshold value of 13.5 (Table 1). Forty-six of the 60 mineralized samples have anomalous values (Appendix, Table A). Plate 5 is a plot and contour diagram of the anomalous values. The diagram confirms the east, west and far west zones along the Paiute fault. The ratio also indicates potential mineralization in section 8.

TI X 10 /Sr Ratio

Strontium is progressively depleted during magmatic differentiation and its concentration is low in hydrothermal solutions. Sr 2+ (1.13 A) normally follows the distribution of Ca 2+ (0.99 A). The depletion of Sr during hydrothermal alteration is the result of the breakdown of the Ca bearing minerals (Hahn, 1986; Ikramuddin and others, 1983; Massa and

Ikramuddin, 1986; Stueber, 1978; Tooker, 1963). Therefore, during hydrothermal processes Sr will deplete and Tl will increase resulting in an increase in the Tl × 10 /Sr ratio from non-mineralized to mineralized rocks. The mean background value is 14.0, standard deviation 8.03 and threshold value of 30.1 (Table 1). Fifty-three of the 60 mineralized samples are anomalous (Appendix, Table A). Plate 6 is a plot and contour diagram of the anomalous values. The diagram delineates 6 potential mineralized zone. The east, west and far west zones. It confirms a potential zone in section 8.

Fluid Inclusion Survey

Double polished thin sections were prepared from 24 vein samples (Plate 2; Appendix Table B). Heating and freezing measurements were made on 80 fluid inclusions using a Fluid Incorporated adapted U.S.G.S. heating and freezing stage, as described by Werre and others (1979). Due to the small size of the fluid inclusions and intense fracturing of the vein material all inclusions were classified as secondary (Roedder, 1984).

Description of Fluid Inclusions
Heating and Freezing Measurements

All 80 fluid inclusions were Type I (liquid rich) as described by Nash (1972). Type II (vapor rich) fluid inclusions were

observed however, heating and freezing measurements were not recorded due to their small size, < 4 um (Figure 2).

Temperature of homogenization of the vapor phase to liquid (The V (L)) ranged from 135.3-288.7 C, mean of 227 C (Figure 3; Appendix Table B). Equivalent weight percent NaCl was determined using the equation of Potter and others (1978) and ranged from .18 to 4.0 percent, mean of 1.3 (Figure 4; Appendix Table B). The volume percent vapor ranged from 3-52 percent (Appendix Table B).

Discussion

Recently boiling of hydrothermal solutions has been documented as a means to alter fluid chemistry, resulting in gold precipitation. (Bodnar, 1981; Romberger, 1982; Roedder, 1984; Cunningham, 1985). Therefore, identification of a boiling zone will delineate the higest concentration of precious metals. Bodnar, 1981 and Cunningham, 1985 use fluid inclusions to determine if a buried boiling horizon exists. In the boiling-water model (Figure 5) fluid inclusions above the boiling zone will have variable phase ratios and a wide range in temperatures. Below the boiling zone the fluid inclusions will be water rich, uniform phase ratios and restricted in temperature range. In the boiling zone both liquid rich and vapor rich fluid inclusions will be observed (Bodnar, 1981; Cunningham, 1985). At the Paiute prospect the fluid inclusions have a wide range of temperatures, 135-288 oc, and varying phase

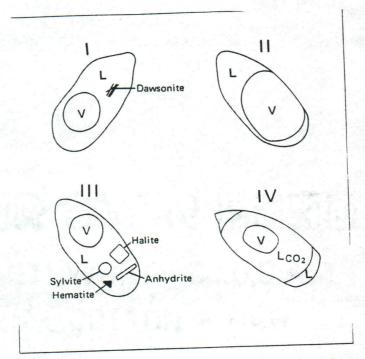


FIGURE 2.—Sketches of typical fluid inclusions obsderved in porphyry copper deposits. Types I to IV correspond to those described in text. L, liquid; V, vapor; LCO2, liquid CO2.

Figure 2. Fluid inclusion Type classification (Nash, 1972)

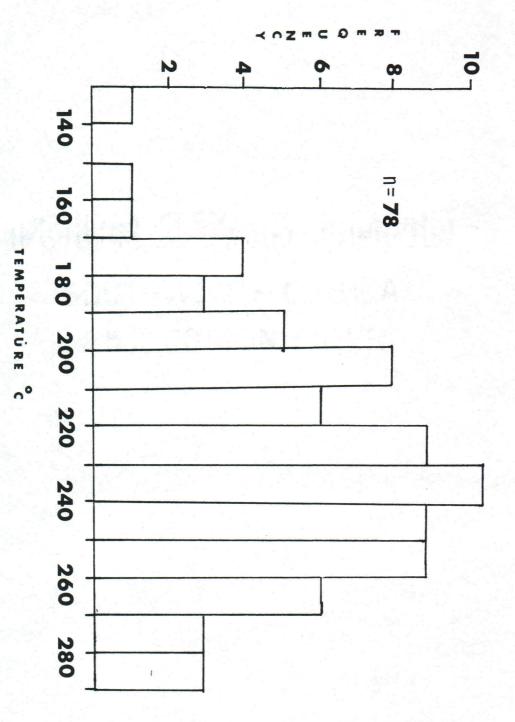


Figure 3. Temperature of homogenization

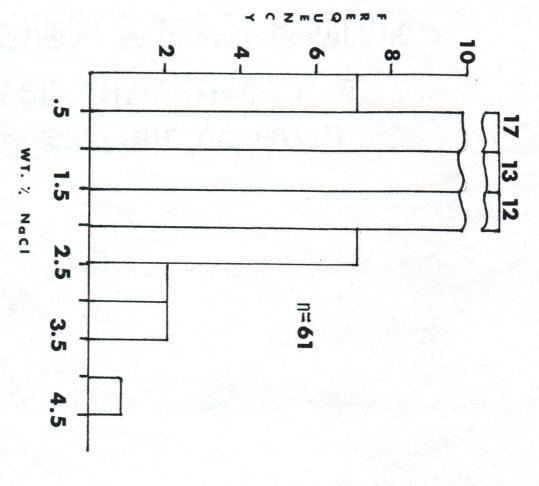


Figure 4. Equivalent weight percent NaCl

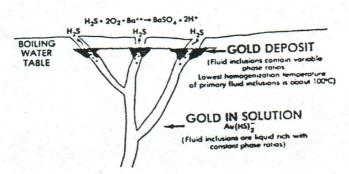


Figure Boiling-water-table model for epithermal gold deposition.

Figure 5. Boiling-water tabel model (Cunningham, 1985)

ratios, 3-52 percent (Figure 4, Appendix Table B). A few liquid rich inclusions were observed however due to their small size heating and freezing measurements were unsuccessful. The fluid inclusion data of wide temperatures and variable phase ratios strongly indicate a boiling zone at depth. Figure 6 is a temperature vs. salinity plot of super-giant gold districts, of 10 oz gold, and giant gold districts, of 10 and of 10 oz gold (Buchanan, 1980; Etienne and others, 1985). Two distinct fields develop, super-giant districts have fluids inclusions of 200 c and salinities of 3 equivalent weight percent NaCl. Whereas, giant camps have temperatures between 200-300 c and salinities between 3-8 percent. The Paiute pospect plots within the giant gold district field strongly suggesting a strong potential for precious metal mineralizaton (Figure 7).

Summary

The geochemical data reveals anomalous values of Ag, As, Au, Ba, Sb and Tl indicating a supra-ore body exists at the Paiute claim blocks. The fluid inclusion survey strongly suggests a boiling horizon at depth. Based on this data the current level of erosion is above the boiling horizon and just in the precious metal zone of Buchanan's 1981, model (Figure 8). Comparing the trace element data to Berger and Eimon, 1982, this model indicates the Paiute prospect is approximately at the zone of acid leaching to stockwork veining zone (Figure 9, In Berger, 1985). Sample 86-011-F and 86-077-PR were collected from a small, 1-2 meter, brecciated zone, which further

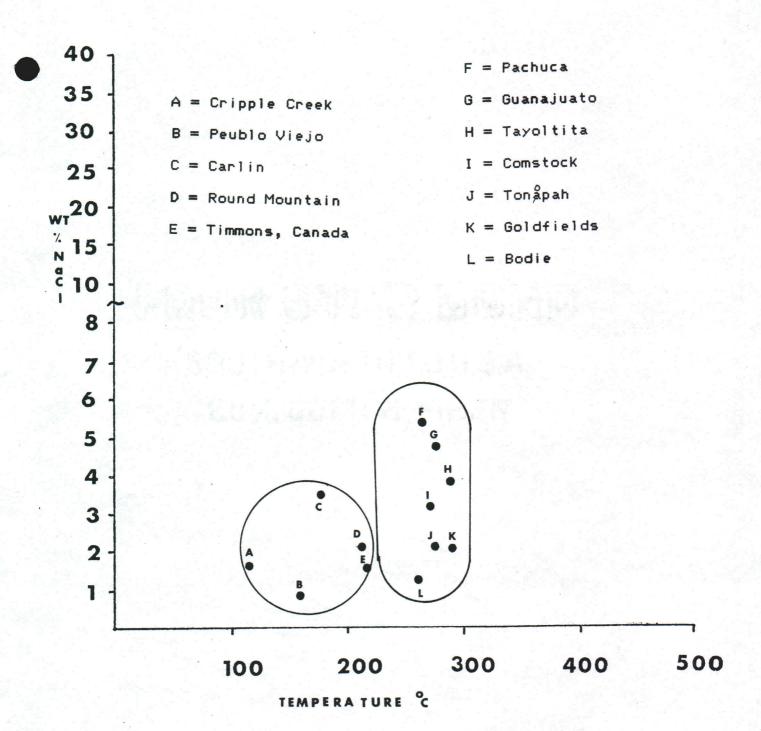


Figure 6. Température vs. salinity plot of supergiant and giant lode gold camps.

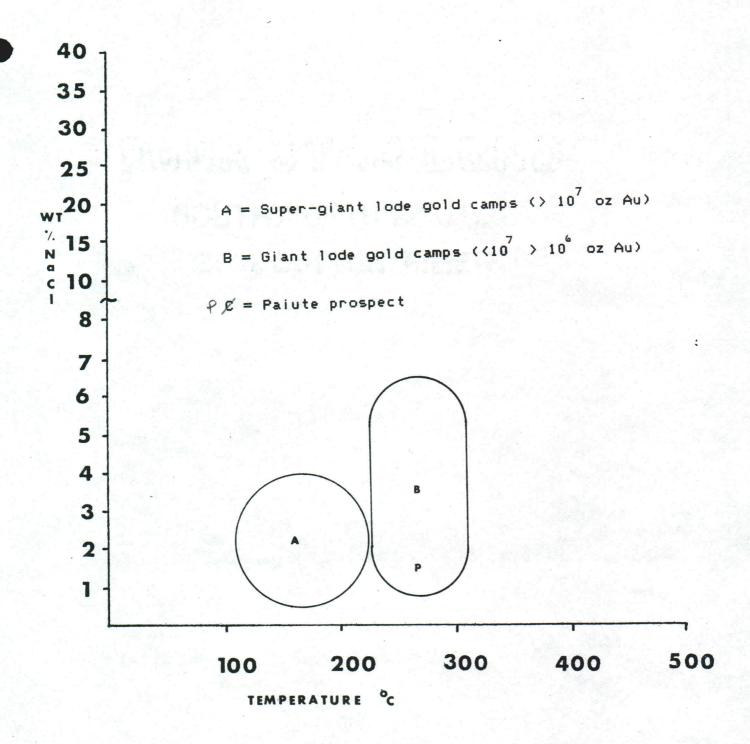


Figure 7. Temperature vs. salinity plot of supergiant, giant lode gold camps and the Paiute prospect

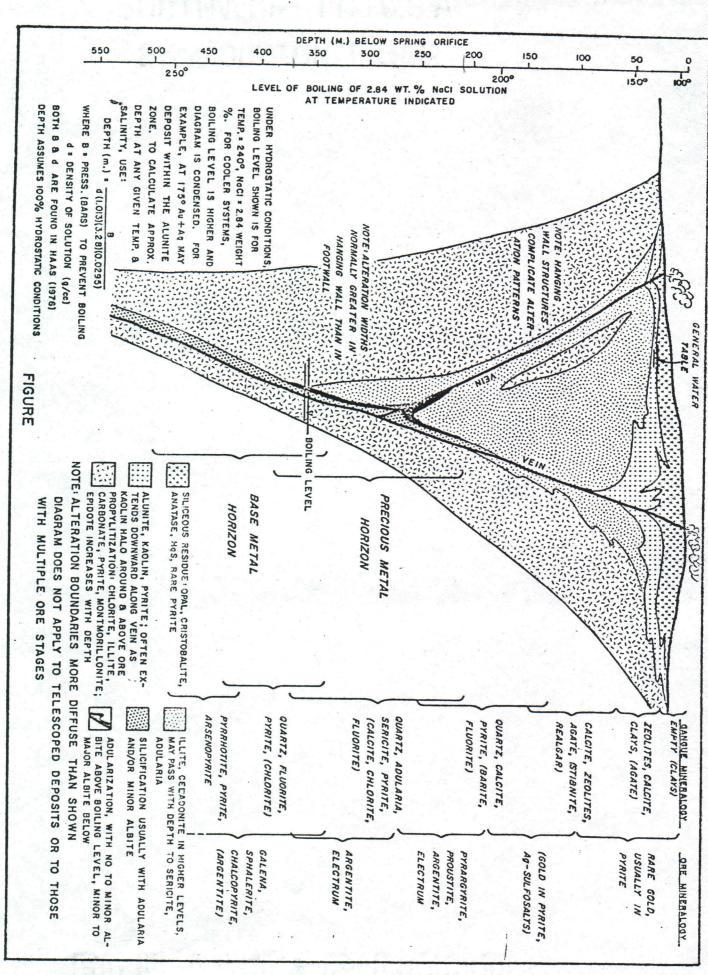


Figure 8. Buchanan epithermal precious metal model (Buchanan, 1981)

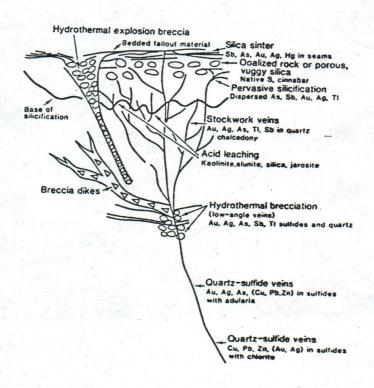


Figure 9. Berger and Eimon hot spring model (Berger and Eimon, 1982)

supports the prospect being in the upper levels.

The geochemical pathfinders delineate mineralization along the Paiute fault zone in 3 seperate areas and in section 8. As, Sb, K/Tl, Ba/Tl and Tl/Sr indicate potential mineralization in section 8.

	86-052-PR	86-051-PR	86-050-PR	86-049-PR	86-048-PR	86-047-PR	86-046-PR	86-044-PR	86-043-PR	86-041-PR	86-040-PR	86-039-PR	86-038-PR	86-036-PR	86-035-PR	86-034-PR	86-033-PR	86-032-PR	86-031-PR	86-029-PR	86-028-PR	86-027-PR	86-026-PR	86-024-PR	86-023-PR	MINERALIZED	86-096-PR	86-093-PR	86-091-PR	86-089-PR	86-087-PR	86-075-PR	86-072-PR	86-065-PR	86-064-PI	86-054-PR	86-045-PR	86-042-PR	86-037-PR	86-030-PR	86-025-PR		SHMPLE #		BACKGROUND
	R THL-P												R THL-P		R THM-B								<u>=</u>			ZE0						R IE													8
	.08		.04	L.																							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		NOT/20	}	
	11	22	6	19	7	11	22	10	30	7	U	7	7	10	100	70	6	22	10	180	23	11	120	25	38		σı	N	6	N	4	ч	N	4	U	7	11	10	10	10	14		PPM	1	
		.002	.01																								<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		NO1/20		
	695	455	760	835	565	390	325	615	400	405	845	390	825	500	660	390	430	495	965	585	570	525	325	460	410		1630	1260	1100	1390	1650	1400	1360	880	1530	1300	1320	1300	925	710	1430		PP BH	}	
	3.24	1.54	3.30	5.30	4.59	4.78	4.14	4.38	4.86	4.56	3.86	4.69	3.46	3.21	4.59	3. 15	4.41	4.59	3.45	4.43	4.62	3.92		4.46	4.38		4.61	3.53	3.90	4.70	5.77	4.03	3.98	5.07	3.87	3.36	4.51	3.58	3.67	5.29	4.13		N X		
	1.6	.9	2.2	1.0		.7	1.8	3.2	1.2	. 60	.6		Un	.7	1.8	1.6	4.	2.0	.2	3.4	1.4	2.2	4.8		2.8		.6	.	2.6	.6	1.4	1.0		.4	.6	.7	•6	. 6	.7	1.6			PPM SB		
	62	53	37	92	76	30	20	81	50	*	138	36	148	144	83	129	48	56	168	55	66	66	33	43	47		510	495	275	730	400	530	330	98	390	670	325	555	200	95	260		PPM		
	*	· On	.9	1.0	.7	.7	.6	.7	.7	.8	.9	8	.6	.7	.7	.6		.9		.7	.6	.7			٠,			*	*	*	*	.6	*	*	. ຫ	. ຫ	*	.6	.6	*	ok	*	PPM		
		3.08	3.67	5.30	6.56	6.83	6.90	6.26	6.94	5.70	4.29	5.86	5.77	4.59	6.56	5.25	5.51	5.10	5.75	6.33	7.7	5.60	5.81	5.53	6.26		7.68					6.72			7.74	6.72		5.97	6.12				KYT		
)		9.10	8.44	8.35	8.07	5.57	5.42	8.79	5.71	5.06	9.39	4.88	13.8	7.14	9.43	6.50	5.38	5.50	16.1	8.36	9.50	9.38	4.06	5.75	5.86		27.2					23.2			30.6	26.0		21.67	15.4				BA/TL		
		94.3	243	109	92.1	233	300	86.4	140	200	65.2	222	40.5	48.6	84.3	46.5	167	161	35.7	127	90.9	106	242	186	149		11.8					11.3			12.8	7.45		10.8	30.0				TL/SR		

* = TL DATA BY THL = LOWER MY THM = MIDDLE I THU = UPPER MY THM-B = UPPER THM-P = LOWER	86-090-PR 86-092-PR 86-094-PR 86-095-PR 86-097-PR 86-097-PR	96-081-PR 96-083-PR 96-085-PR 96-086-PR 96-086-PR		96-053-PR 96-057-PR 96-057-PR 96-059-PR 96-060-PR 96-062-PR 96-063-PR 96-068-PR 96-069-PR
MEMBER MEMBER MEMBER MEMBER MEMBER	++9944 444444	+ + + + + + + + + + + + + + + + + + +	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	= = = = = = = = = = = = = = = = = = =
RE-ANALYZED AT TI	.01			200
T TIME OF	1400040	. 12 1 4 8 0 0 4		125 125 125 125 125 125 125 125 125 125
REPORT			. 002	3 00 0
	1200 1200 1870 1870 1240 850 970	1200 1580 910 1090 535	1580 1580 1570 1570 1480 1780 1790 930	1155 155 155 155 155 155 155 155 155
	4. 96 4. 96 116	4.5.5.2.4.6.1 5.5.2.9.9 6.00 6.00 6.00 6.00 6.00 6.00 6.00	4.4.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	4.2.4.4.2.4.2.4.2.4.2.4.2.4.2.4.2.4.2.4
	1 4 1	11.04.87	NII. I	
	245 350 128 455 37	435 185 38 57	57 64 57 56 57 64 54 55 57 64 54 55 57 55 57 57 57 57 57 57 57 57 57 57	124 124 124 124 124 124 124 124 124 124
	1.71.888		111111111000000	
	. 4.5.5.5.4.5 11.33.23.88.88	7.5.5.4.5.5.4.6.5.5.6.6.6.6.6.6.6.6.6.6.6	2.00 6.4 4.00 4.60 2.00 6.4 4.00 4.00 2.00 6.00 6.00 6.00 2.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
			1.81 9.86 11.7 11.7 11.9 12.8 9.30	5.50 7.42 9.21 11.3 6.50 7.92 13.8
	32.6 22.9 85.9 15.4	286 16.1 76.3 263	353 156 9.46 158 36.6 31.9 263 172 184 175	123 776.9 194 194 93.3 95.2 95.2

SAMPLE NUMBER	T M ICE	EQUIV WT	T V H	VOL % VAPOR
86-001-F	-1.0 -0.2 -0.2 -0.6 -0.3 -0.1 -0.1	1.7 .35 .35 1.0 .53 .18 .18	254.8 214.7 211.5 160.0 262.2 240.8	11 33 13 20 13 11 17 25
86-003-F	-0.6 -0.5	1.0	226.3 230.2	17 17
86-004-F	-0.4 -1.7 -0.4	.70 2.9 .70		20 13 20 26
86-006-F	-0.5	.87	217.4 263.3	6 13
86-007-F	-0.4 -0.5 -1.0	.70 .87 1.0	270.5 215.4 238.8 261.6 255.8 288.7	17 25 25 16 10 20
86-008-F			252.2 272.2	40 20
86-010-F	-1.2 -1.2 -1.0 -1.2 -0.8 -0.7 -0.7 -1.4 -1.0	2.1 2.1 1.7 2.1 1.4 1.2 1.2 2.4 1.7 2.6	229.6 173.1 176.4 172.6 205.6 200.8 204.9 213.6 205.3 209.3	14 11 25 20 20 33 20 11 13
86-011-F	-0.6 -0.4 -0.9 -0.3 -0.2	1.0 .70 1.6 .53 .35	263.4 244.9 272.5 190.5 259.8 200.1	14 20 20 8 17 17
86-012-F	-0.8 -0.7 -0.6 -0.6	1.6 1.2 1.0 1.0	220.0 188.0 230.7 223.4	27 25 17 25
86-014-F	-1.5 -1.8	2.5 3.1	248. <i>9</i> 255.2	11 20

			249.6	33
	0.4	70	259.6	52
	-0.4	.70	262.2	40
	-0.7	1.2	241.6	20
	-1.0	1.7	237.5	11
	-1.0	1.7	230.4	20
	-0.8	1.6	265.3	17
	-0.8 -0.7	1.6	183.3	40
				17
86-015-F	-2.4	4.0	170.4	25
	-1.8	3.1	194.1	20
			205.4	
86-016-F			196.8	20
86-017-F	-1.2		248.6	
00-017-F	-1.2 -1.1	2.1	239.3	10
	-1.1	1.7	234.6	17
	-1.1	1.9	229.6	13
	-0.8	1.6	250.2	20
	0.0	1.0	194.3	8
			192.4	38
			214.4	20
			220.1	25
			225.6	40
			237.6	14
			224.8	15
			246.5	11
			245.8	
86-018-F			153.5	9
86-022-F			135.3	26
	-1.3	2.2	186.5	9
			232.2	33
86-055-F	-0.3	.53		21
	-0.4	.70	239.3	18
	-0.2	.35	242.0	5
	-0.5	.87	253.0	8
	-0.3	.53	288.4	5
	-0.4	.70	283.0	8
	-0.6	1.0	254.7	3
	-0.4	.70		8
	-0.4	.70	200.2	7

ALL TEMPERATURES IN CENTRIGRADE

ALL FLUID INCLUSIONS ARE TYPE 1

T = LAST ICE MELT M ICE

T V = HOMOGENIZATION OF VAPOR TO LIQUID

VOL % VAPOR = OBSERVED VOL % VAPOR AT 25 C

SAMPLES 86-002-F, 005, 009, 013, 019, 020, 021, AND 051AF ALL FLUID INCLUSIONS TO SMALL TO OBSERVE PHASE CHANGES

REFERENCES CITED:

- Berger, B., R., 1985, Geologic-Geochemical features of Hot-Spring precious metal deposits: In Tooker, E., W., Editor, Geologic Characteristics of sediment and volcanic hosted disseminated gold deposits. Search for an occurrence model: U. S. Geological Survey Bulletin 1646, 150 p.
- Beus, A., A., and Grigorian, S., V., 1977, Geochemical exploration methods for mineral deposits: Wilmette, Illinois, Applied Publishing Ltd., 287 p.
- Bodnar, R., J., 1981, Use of fluid inclusions in mineral exploration.

 Comparison of observed features with theoretical and experimental data on ore genesis: Geological Society of America, Abstract with Programs, v. 13, p. 412
- Brobst, D., A., 1959, Barite resources of the United States: U. S. Geological Survey Bulletin 1072-B, p. 67-130.
- Buchanan, L., J., 1981, Precious metal deposits associated with volcanic environments in the Southwest: In Dickinson, W., R., and Payne, W., D., Editors, Relations of tectonics to ore deposits in the Southern Cordillera, Arizona Geological Society Digest, v. 14, 288 p.
- Cunningham, C., C., 1985, Characteristics of boiling-water-table and carbon dioxide models for epithermal gold deposition: In Tooker, E., W., Editor, Geologic characteristics of sediment and volcanic hosted disseminated gold deposits. Search for an occurrence model: U. S. Geological Survey Bulletin 1646, 150 p.
- De Albuquerque, C., A., R., and Shaw, D., M., 1972, Thallium: In Wedepohl, K., H., Editor, Handbook of Geochemistry, Berlin, Springer-Verlag, p. 81-B-1-81-0-6.
- Etienne, J., Gordon, T., and Mihalasky, M., 1985,
 Major lode gold camps in North America: Spokane, Washington, 91
 st Northwest Mining Association Annual Convention.
- Ewers, G., R., and Keays, R., R., 1977, Volatile and precious metal zoning in the Broadlands geothermal field, New Zealand: Economic geology, v. 72, p. 1337-1354.
- Fischer, K., 1972, Barium: In Wedepohl, K., H., Editor, Handbook of Geochemistry, Berlin, Springer-Verlag, p. 56-A-1-56-A-6.
- Hahn, R., 1986, Lithogeochemistry and fluid inclusions of the Acme mining claims, Stevens County, Washington: Cheney, Eastern Washington University, M.S. Thesis, 67 p.
- Ikramuddin, M., 1982, The relation between Tl, Rb, and K in mineralized and non-mineralized rocks: Geological Society of America, Abstracts with Programs, v. 14, p. 520

- Ikramuddin, M., 1983, The use of Ba/Tl Ratio as a guide to mineralization: Geological Society of America, Abstracts with Progams, v. 15, p. 601
- Ikramuddin, M., Asmeron, Y., Nordstrom, P., M., Kinart, K., Martin., W., M., Digby, S., J., M., Elder, D., D., Nijak, W., F., and Afemari, A., A., 1983, Thallium: A potential guide to mineral deposits: Journal of Geochemical Exploration, v. 19, p. 465-490.
- Ikramuddin, M., Besse, L., and Nordstrom, P., M., 1986, Thallium in the Carlin type gold deposits: Applied Geochemistry, In Press.
- Levinson, A., A, 1980, Introduction to exploration geochemistry: Wilmette, Illinois, Applied Publishing Ltd., 924 p.
- Massa, P., J., and Ikramuddin, M., 1986, Thallium in gold-bearing quartz veins and associated rocks from the COMO mining district, Nevada: Chemical Geology, v. 54, p. 27-34.
- Nash, J., T., 1972, Fluid inclusion petrology—data from porphyry copper deposits and application to exploration: U. S. Geological Survey Professional Paper 907D, 16 p.
- Payne, M., H., 1985, Paiute Project: Denison Mines (U. S.) Inc., In-house report, 26 p.
- Potter, R., W., Clynne, M., A., and Brown, D., L., 1978, Freezing point depression of aqueous NaCl solutions: Economic Geology, v. 73, p. 284-285.
- Puchelt, H., 1972, Barium: In Wedepohl, K., H., Editor, Handbook of Geochemistry, Berlin, Springer-Verlag, p. 56-B-0-56-0-22.
- Roedder, E., 1984, Fluid Inclusions: Review in Mineralogy Volume 12, Chelsea, Michigan, Cook Crafters, Inc., 644 p.
- Romberger, S., B., 1982, Transport and deposition of gold hydrothermal systems at temperatures up to 300 C: Geological Society of America, Abstracts with Programs, v. 14, p. 602.
- Rose, A., W., Hawkes, H., E., And Webb, J., S., 1983, Geochemistry in mineral exploration: London, Academic Press, 657 p.
- Steuber, A., M., 1978, Strontium, in Wedepohl, K., H., editor, Handbook of geochemistry, Berlin, Springer-Verlag, D-1-1-17.
- Tooker, E., W., 1985, Geologic characteristics of sediment and volcanic hosted disseminated gold deposits. Search for an occurrence model: U. S. Geological Survey Bulletin 1646, 150 p.

- Vlasov, K., A., 1966, Geochemistry and mineralogy of rare elements and genetic types of their deposits, Volume II: Jerusalem, Isreal, Isreal Programs for Scientific Translation, 688 p.
 - Werre, R., W., Bodnar, R., J., Bethke, P., M., and Barton, P., B., 1979, A novel gas-flow fluid inclusion heating/freezing stage: Geological Society of America, Abstracts with programs, v. 11, p. 539.
 - White, D., E., 1981, Active geothermal systems and hydrothermal ore deposits: Economic Geology, 75th Anniversary Volume, p. 392-423.

Table 1

	T	o _C	Wt.;	NaC1	
	A	В	A	В	
East	212	231	1.16	1.19	
West	228	232	1.46	1.26	
Far West	218	232	1.44	.828	

A = Mean of each sample, then mean of samples.

B = Mean of individual meaurements of all samples.

East samples = 86-001-F, 003, 004, 014, 018.

West samples = 86-007-F, 008, 010, 011, 016, 017.

Far West = 86-022-F, 055.

References Cited

- Haas, J., L., Jr., 1976, Physical properties of the coexisting phases and the thermochemical properties of the H2O component in boiling NaCl solutions: U.S. Geological Society Bulletin 1421-A, 73 p.
- Potter, R., W., II, 1977, Pressure correction for fluid-inclusion homogenization temperatures based on the volumetric properties of the system NaCl-H2O. U.S. Geological Survey Journal Research, v. 5, p. 603-607.
- Roedder, E., 1984, Fluid Inclusions: Review in Mineralogy Volume 12, Chelsea, Michigan, Cook Crafters, Inc., 644 p.

Figure 6 References

- Buchanan, L., J., 1981, Precious metal deposits associated with volcanic environments in the southwest: In Dickson, W., R., and Payne, W., D., Editors, Relations of tectonics to ore deposits in the southern Cordillera: Arizona Geological Society Digest, v. 14, 288 p.
- Drier, J., F., 1976, The geochemical environment of ore deposition in the Pachuca-Real Del Norte District, Hidalgo, Mexico: Tuscon Arizona, University of Arizona, PhD, 115 p.
- Fahley, M., P., and Leanderson, P., J., 1982, Genesis of silver mineralization at Tonopah, Nevada: Geological Society of America, Abstracts with Programs, v. 14, p. 486.
- Goss, W., H., 1975, New ore discovery and source of silver-gold veins Guanajuato, Mexico: Economic Geology, v. 70, p. 1175-1189.
- Hayba, D., O., 1983, A compilation of fluid inclusion and stable isotope data on selected precious and base metal epithermal deposits: U. S. Geological Survey Open File Report OF 83-450. 24p.
- Kesler, S., E., Russell, N., Seaward, M., Rivera, J., McCurdy, K., Cumming, G., L., and Sutter, J., F., 1981, Geology and geochemistry of sulfide mineralization underlying the Pueblo Viejo gold-silver oxide deposit, Dominican Republic: Economic Geology, v. 76, p. 1096-1117.
- O'Neil, J., R., Silberman, M., L., Fabbi, B., P., and Chesterman, C., W., 1968, Stable isotope and chemical relations during mineralization in the Bodie Mining District, Mino County, California: Economic Geology, v. 68, p. 765-784.
- Radtke, A., S., Rye, R., O., and Dickson, F., W., 1980, Geology and stable isotope studies of the Carlin gold deposit, Nevada: Economic Geology, v. 75, p. 641-672.
- Smith, D., M., Jr., Albinson, T., and Sawkins, F., J., 1982, Geologic and fluid inclusion studies of the Tayoltita silver-gold vein deposit, Durango, Mexico: Economic Geology, v. 77, p. 1120-1145.
- Smith, T., J., Cloke, P., L., and Kesler, S., 1984, Geochemistry of fluid inclusions from the McIntyre-Hollinger gold deposit, Timmons, Ontario, Canada: Economic Geology, v. 79, p. 1265-1285.
- Thompson, T., B., Trippel, A., D., and Dwelley, P., C., 1985, Mineralized veins and breccias of the Cripple Creek district, Colorado: Economic Geology, v. 80, p. 1669-1688.
- Tooker, E. ,W., editor, 1985, Geologic characteristics of sediment

and volcanic hosted disseminated gold deposits-Search for an occurrence model: U. S. Geological Survey Bulletin 1646, 150 p.

FLUID INCLUSION SURVEY:

86-001-F

Quartz vein, clear-gray, 1-10 mm in width, cutting a propylitic altered tuff.

86-002-F

White-gray sugary quartz coated with Fe stain.

86-003-F

Silicified propylitic altered tuff. Silicification is gray, with a small 5 mm gray quartz vein cutting it.

86-004-F

Quartz vein feeding off a larger silicified zone. Vein cuttin a bleached (argillic) zone with prominant Fe staining. Located at the portal of a collapsed adit.

86-005-F

White quartz vein, 3-4 cm in width. Outcrop bleached white, Fe stained, and veined.

86-006-F

White quartz vein with numerous open spaces lined with well developed quartz crystals.

86-007-F

Small quartz veins with open spaces lined with small quartz crystals. Outcrop is propylitic altered tuff with abundant Fe staining.

86-008-F

Milky quartz vein, 2-6 cm in width, with open spaces lined with quartz crystals. Outcrop slightly Fe stained.

86-009-F

Small white quartz vein taken from prospectors pit that is Fe stained.

86-010-F

7 cm vein that is lined with milky quartz and centered is a clear-gray quartz containing small brecciated fragments, 1 mm of the milky quartz.

86-011-F

2 foot wide brecciated, milky quartz vein conating angular matrix of wallrock. Vein has numerous open space lined with well developed quartz crystals and adularia?

86-012-F

Clear-gray quartz vein with open spaces lined with quartz crystals, taken from tailings of old adit in sec 18.

86-013-F

White calcite from same tailings as 86-012-F.

86-014-F

Gray-white quartz vein, 10 cm, cut by small <1 cm vein. Small vein has open spaces lined with quartz crystals.

86-015-F

4 cm milky quartz vein containing open spaces and slightly Fe stained.

86-016-F

Milky quartz vein, 5-10 cm width, containing open spaces with well developed quartz crystals.

86-017-F

As 86-016-F

86-018-F

White quartz vein, 0.5-1 cm, with smaller veins cutting it, slightly Fe stained.

86-019-F

As 86-018-F, taken from float 1 meter below outcrop.

86-020-F

Silicified sample, white, sugary texture, with open spaces and some minor Fe stain. Sample excaveted (insitu?).

86-021-F

Quartz vein from tailings of small adit.

86-022-F

Tailings sample from portal of adit, white bull quartz.

86-055-PF

3 cm white quartz vein with open spaces line with well developed quartz crystals, cutting propylitic altered tuff.

86-051-AF

2 cm white quartz vein, cutting propylitic altered tuff.

LITHOGEOCHEMICAL SURVEY:

86-023-PR

Gray-white, silicified tuff with slight Fe stain.

86-024-PR

As 86-023-PR, except greater degree of Fe stain

86-025-PR

Purple crystalline tuff (Th1)

86-026-PR

Bleach white, Fe stained, slight silicification with light green matrix, tuff

86-027-PR

Bleached white, minor Fe stain, slightly silicified tuff

86-028-PR

White, silicified, minor Fe stain, tuff.

86-029-PR

As 86-028-PR

86-030-PR

Gray lithic tuff (Thm)

86-031-PR

Green, propylitic altered, tuff

86-032-PR

Bleached white, red and brown Fe stain, tuff.

86-033-PR

Gray-white silicified tuff, with minor Fe stain and small <1 cm quartz veining.

86-034-PR

Gray silicified tuff with 1-2 cm gray quartz veining.

86-035-PR

Bleached white, red and brown staining some slicification, small 1 cm quartz veining.

86-036-PR

Green, propylitic altered, tuff.

86-037-PR

Red to purple lapilli tuff, with green lapilli (Thm).

86-038-PR

Green, propylitic altered, tuff

86-039-PR

Bleached white, with slight green tint matrix, tuff

86-040-PR

As 86-038-PR

86-041-PR

As 86-039-PR

86-042-PR

Green lapilli tuff, slightly altered? (Th1).

86-043-PR

Bleached white, minor Fe stain, tuff

86-044-PR

Bleached white-gray, dark brown Fe stain, slightly

silicified tuff.

86-045-PR

Purple lapilli tuff, with green lapilli (Thl).

86-046-PR

Gray silicified, red and brown Fe stain, tuff, with minor sulfur stain.

86-047-PR

Bleached white, silicified, tuff, with red and brown Fe staining.

86-048-PR

As 86-047-PR

86-049-PR

Bleached white, slightly silicified tuff. Small veining as indicated by residual Fe staining.

86-050-PR

Green, propylitic altered, tuff, with small 2 cm quartz veining and slight Fe staining.

86-051-PR

As 86-050-Pr

86-052-PR

As 86-051-PR, except much grater quartz veining with open spaces.

86-053-PR

As 86-034-PR

86-054-PR

Green red lapilli tuff, strong effervescing (Th1).

86-056-PR

Green, propylitic altered, tuff, with some bleaching.

86-057-PR

Bleached white, silicified tuff, with small quartz veining.

86-058-PR

Green and red lapilli tuff, strong effervesing and minor bleaching.

86-059-PR

Bleached white-gray, silicified tuff, with small quartz veining that contains well developed quartz crystals.

86-060-PR

As 86-059-PR

86-061-PR

As 86-060-PR

86-062-PR

Gray silicified tuff with minor Fe staining.

86-063-PR

Bleached gray, silicified tuff with small Fe stained cavities.

86-064-PR

Purple crystalline tuff (Thu).

86-065-PR

Purple crystalline tuff, effervesces slightly (Thu).

86-066-PR

Light green matrix, crystalline, tuff.

86-067-PR

Bleached gray, silicified tuff, with slight Fe stain.

86-068-PR

As 86-067-PR

86-069-PR

Gray tint color, completely silicified. Outcrop heavily Fe stained.

86-070-PR

Light gray, slightly silicified, light Fe stained, tuff.

86-071-PR

Green, propylitic altered tuff, with minor silicification and effervescing.

86-072-PR

Green-purple crystaline tuff, slight effervescing (Th1).

86-073-PR

Green, propylitic altered, tuff, with small <1 cm veining.

86-074-PR

Brown weathered color, fresh gray color, tuff. Some areas bleached gray by veining that has minor effervescing.

86-075-PR

Purple lapilli tuff, with green lapilli and minor effervescing (Thl).

86-076-PR

Green, propylitic altered, tuff. Weathered surface brown, fresh green matrix with slight silicification.

86-077-PR

Green, propylitic altered, tuff.

86-078-PR

Bleached white tuff, slightly silicified, Fe stain and minor quartz veining.

86-079-PR

Bleached white and silicified tuff. Minor Fe staining and small quartz veining.

86-080-PR

As 86-079-PR, except more open spaces in quartz veining.

86-081-PR

Dark green matrix, propylitic altered, tuff. Small quartz veining with Fe staining.

86-082-PR

Green, propylitic altered, tuff, effervesces.

86-083-PR

Matrix silicified, feldspars bleached white tuff, containing small quartz veining and Fe staining.

86-084-PR

Green lapilli tuff with green matrix and Fe staining indicating veining.

86-085-PR

Bleached white, slight silicification, minor Fe stain and quartz veining.

86-086-PR

As 86-085-PR

86-087-PR

Purple crystalline tuff with minor bleaching of feldspar and effervesces (Thl).

86-088-PR

Slightly silicified, propylitic tuff with minor veining.

86-089-PR

Purple lapilli tuff with purple-gray matrix and green lapilli, effervesces (Th1).

86-090-PR

Green, propylitic altered tuff, with small veining and effervesces.

86-091-PR

Green lithic tuff, effervesces (Th1).

86-092-PR

Green lithic tuff, with minor quartz veining, Fe stain and effervescing.

86-093-PR

Purple crystalline tuff cut by small \langle 1 cm veins, that effervesces (Th1).

86-094-PR

Bleached gray, minor silicification as evident by veining, tuff

86-095-PR

Light green-gray lapilli tuff, effervesces slightly.

86-096-PR

Green lapilli tuff, effervesces.

96-097-PR

Green, propylitic altered and bleached, tuff, with small quartz veining and Fe staining.

86-098-PR

Green, propylitic altered, tuff, with small quartz veins cutting sample and Fe staining in outcrop.



the tonto group of companies

BRISTLECONE MINING COMPNAY

CORE DRILLING PROJECT Nixon, Nevada

Q88-133C

34400031

Diamond Drill in Anderson - Fred Winminen 623 4208 358 5188 885 7865 Bellings C. City Bayler Bros. Sparks 358 5188 289 3145 Christ cariser Sla Cooper Sons. El 289 2669 Jong year Cilly 246 0296 Com Richardson 788 6200 Brian Susy

Stad mountad or track, and led 865

60l Cooper: Son Elig 209 2669

Drilling Services Co. AZ Juin Witt 602 895 9336

Gustin Corp. - Elko

Harris - Pat tied up rest of year

Hambolt 623 5259 Bhad
Jleze Keylo: - Win rame 623 5988

Track mountad per Brad a Humbolt

Nes answer

Layre Spaths 358 8607

B-53 Slels Relph Albright Drilling 322-6534. theray Exploration Drilling 782-4921 6:30 ToH Drilling 331 9250 Discou. Woytek 673 6906 - No Core Wayne 329-8063 STRAIGHT ROTARY T-4 (Hawling) 945-5600 No Answer 289-26693145 Busy Rot Convouly Christiansen 822 2327 No core Maran i Sons Mollay 225-8692 Answer Machine 209-466-3831 Min 9" x12 Parish 916-783-9733 BAKER 800-638-4429 Larry Flaming CEploration Yengton Levey Kay Jary Letter At 6232-3948 727 5371 Conv Rotary WaterWells Potter Veratura 602 623 2211



tonto drilling services

DIAMOND AND ROTARY DRILLING

March 3, 1988

Dennis LaPrairie Bristlecone Mining 2525 Sharon Way Reno, Nevada 89509

Dear Dennis,

Sorry it took me so long to get this bid out. As we discussed on the phone earlier, we anticpate pumping water to the site.

If you have any questions give me a call at 800-453-8290. We look forward to working with you on this program.

Sincerely,

TONTO DRILLING SERVICES

Larry M. Pisto



tonto drilling services

DIAMOND AND ROTARY DRILLING

Date March 3, 1988

Bristlecone Mining Company 2525 Sharon Way Reno, Nevada 89509

ATTENTION: Mr. Dennis S. LaPrairie

Q88-133C CORE DRILLING PROJECT Nixon, Nevada

We are pleased to submit our proposal number Q88-133C for your core drilling project near Nixon, Nevada.

- 1. SCOPE OF THE PROGRAM.
 - A. The work entails the drilling of 1 or 2 holes (angled) to a maximum depth of 1,000 feet.
 - B. The approximate footage of the project is 1,000 of HQ wireline drilling.
 - C. The work would commence approximately June 1, 1988.
 - D. The work would be carried out with one truck mounted drill operating two 10-hour shifts per day, seven days per week.

2. CLIENT'S RESPONSIBILITIES.

- A. Drill roads, drill sites, and supply pump sites are to be constructed and maintained accessible to a truck mounted drill rig free of cost to Tonto. Any environmental responsibility relating to the construction, use, or reclamation of same shall be the responsibility of the client. Tonto will, however, remove all trash and loose materials, leaving drill sites in a clean and orderly condition.
- B. All licenses, land and water use permits, environmental reports, reports relating to hole plugging, etc. shall be the responsibility of the client. Tonto shall cooperate with and give technical assistance if requested for compliance with these regulations.
- C. The client will hold Tonto harmless for any liability claims which may arise from normal activity related to this contract, including pollution of ground water or surrounding land from discharge of drill water and wastes, save if Tonto's employees act in an irresponsible manner.
- D. The client will provide suitable equipment at no cost to the contractor for the purposes of:
 - 1. Moving the drilling equipment from the staging area, including loading and off-loading.

2. Moving the drilling equipment from site to site.

Note: This section applies only if access proves too difficult for contractor's wheeled equipment.

- E. The client will provide or be responsible for the following items; alternatively, the contractor will provide and charge back to client at Tonto's list price plus ten percent (10%). Any items not covered by Tonto's list price will be charged at supplier's list price plus ten percent (10%).
 - Drilling mud and additives.

2. Cement.

Soluble oils (Kutwell).

4. Core boxes and lids, sample bags, and marker blocks.

Rod grease or other hole stabilization materials.

6. Special tools or drilling accessories required for testing purposes or which may be left in the hole upon client request.

Casing shoes.

8. Casing left in holes or unrecovered casing.9. Diamond bit costs in excess of \$ 3.00 /Ft.

Note: Costs for above items will be F.O.B. site basis.

CONTRACTOR'S RESPONSIBILITIES.

A. Equipment and Supplies.

Contractor will provide the following equipment to carry out the work.

 One (1) unitized truck mounted drill rig (or equivalent) with 20 ft. pull mast, to include hydraulic chuck and rod handling tools.

2. One (1) 4 x 4 pickup.

3. One (1) mud circulation unit.

4. One (1) mud mixing unit and tank.

One (1) mud pump.

6. Water supply pump and 2,000 feet of waterline.

7. Sufficient spares for the job.

B. Crew Transportation and Travel Time.

Contractor will provide means of crew transportation from accommodation to sites and return. (See Bid Prices for any applicable travel time costs.)

C. Water Supply.

Water that must be purchased will be the responsibility of the client.

D. Personnel.

Contractor will provide crew consisting of 1 driller and 1 helper per shift. All drill operators will have a minimum of three years drilling experience.

One of the crew shall be designated as runner foreman to supervise and coordinate the work and to prepare daily reports of the drilling activity. If a non-drilling foreman is supplied, he will have a minimum of five years experience in running and being responsible for drill jobs.

E. Accommodation.

Contractor shall provide room and board for the crews at no cost to the client.

F. Equipment Down Time.

Standby due to equipment repair is to the contractor's account except as otherwise noted.

4. GENERAL PROVISIONS.

A. Lost Materials.

In the event that drill rods, casing, or other equipment become lost, broken or stuck in the hole while drilling at the footage rates, the client agrees to reimburse the contractor at field cost rates, for time and materials expended in recovery attempts. If materials are unrecoverable, the contractor shall be reimbursed for same at replacement cost.

B. <u>Unsatisfactory Progress In Hole and Hole Abandonment</u>.

In the event that excessive water flows, cavities, loose, swelling, or caving materials or hole stability problems are encountered of a nature as to prevent the completion or satisfactory progress of a hole, then the contractor does not guarantee to drill to a predetermined depth. If it becomes necessary to abandon said hole, the contractor shall charge the client for those holes abandoned, at the depth of abandonment, and at the rates specified. If the client wishes the contractor to proceed in the hole, the contractor has the option to revert to the operating field cost rate, plus all materials, supplies, and equipment required at replacement cost plus ten percent (10%), subject to client's approval.

C. Field Cost Definitions.

Operating.

It is agreed that the operating rates shall include the labor of the regular two man crew per shift, and shall include drill and support equipment rental. The cost of rods, casing, below-the-chuck consumables and other materials and supplies consumed in the work shall be charged to the client at cost plus ten percent (10%).

In the event that extra labor over and above the regular two man crew per shift is utilized, the contractor agrees to supply such additional labor at the rates specified in Bid Prices, Section 5.

2. Non-Operating (Standby).

It is agreed that the non-operating rates shall prevail when work is interrupted due to delays not caused by the contractor, or delays beyond his control.

5. BID PRICES.

Mobilization.

Move in charge for all equipment and personnel to the staging area.

\$ 2,180.00

Demobilization.

Move out charge for all equipment and personnel from the staging area.

\$ 2,180.00

C. Moving.

Moving charge from staging area to the first drill site and from the last drill site back to the staging area.

\$ 80.00 /Rig Hour

Moving from site to site, setting up and tearing down.

\$ 80.00 /Rig Hour

Staging area is defined as the highway transport off loading area.

D. Coring.

PRICE PER FOOT

(HQ)Angle

0 - 1,000 Feet

\$ 30.75

Non-Core Drilling For Surface Casing.

PRICE PER FOOT

\$ 28.00

0 - 50 Feet

F. Field Cost - Operating.

Includes hourly functions such as, but not limited to:

Testing, hole surveying.

2.

Regaining circulation.
Hole stabilization/conditioning. 3.

Down-hole equipment recovery.

5.

Hole reduction.
Drilling sand or cave. 6.

7. Cementing.

Setting or pulling casing.

Mud mixing when drilling unduly interrupted.

10. Wedging operations.

OPERATING RATE:

\$ 90.00 /Rig Hour

G. Field Cost - Non-Operating.

Includes times when rig is not operating, such as, but not limited to:

- Awaiting instructions.
- Cement setting time.
 Waiting for dozer.
- 4. Hole logging by others.
- 5. Site or access delays.
- Waterline installation/ removal and maintenance.
- 7. Water delays if haulage cycle time is excessive or not arising from contractor's equipment.

8. Weather delays.

NON-OPERATING RATE:

- H. Extra Labor Rate.
- Travel Time after first hour per man per shift.
- J. <u>Rental</u> of Sperry Sun or other hole orientation devices.
- K. Accommodation Per Diem Room and Board

- \$ 80.00 /Rig Hour
- \$ 25.00 /Man Hour
- \$ 25.00 /Man Hour

3rd Party Rental Plus 10%, or Client May Supply.

Included in footage rate.

We wish to thank you for considering this proposal, and we look forward to working with you on this project.

Sincerely,

TONTO DRILLING SERVICES

Larry M. Pisto

PROSPECT DRILLING INC.

SPECIALIZING IN DUAL WALL REVERSE CIRCULATION VERTICAL AND ANGLE DRILLING

VIRTUALLY CONTAMINATION FREE GEOLOGICAL SAMPLES.

#EQUIPMENT MAINTAINED IN TOP CONDITION TO INSURE MINIMUM OF DOWN TIME.

#OUR TRAINING AND EXPERIENCE INSURES YOUR PROJECT WILLRECEIVE THE ATTENTION IT DESERVES

#FAMILY OWNED

PROSPECT DRILLING & EXPLORATION
Tye West or Dru West
1702 West Camelback Road,
Suite 13298
Phoenix, Arizona 85015
(602) 890-2865

FEDERAL	0 / / 1		ENTRY/ACQUITAL NO.				
EXPRE	D				3.47.31		
CANSICA INC. LICENSEE	ORT OF DESTINATION	81 KNO					
AIRPORT OF DEPARTURE AIRPO	OHT OF DESTINATION						
COMPANY ENTREPRISE	CONSIGNEE ACCOUNT NO.		CARRIER CODE	AIR WAYBILL NO.	of the engineer contribution		
LaPrairie Mining Limited	A SA THE HAZ TO SE	es consumbris	400	-781602	3 5		
TO (CONSIGNEE/RECIPIENT) DESTINATAIRE	CONSIGNEE PHONE NO.						
A STATE OF THE RESIDENCE OF THE PARTY OF THE PARTY.	Company of the Compan						
STREET ADDRESS ADRESSE RUE 2525 Sharon Way			and the contract of	o chair state pet to be	Egyption 10		
CITY VILLE PROV./STATE PROV./ETAT COUNT	RY POSTAL CODE	CODE POSTAL	REPORTING CARRIER				
RENO U.S.	A. 89509		900	19 Transferme	18 to bridge .		
COMPANY ENTREPRISE	SHIPPER ACCOUNT NO.		DISPOSITION		or to be the Year		
VenTech Healthcare Corp. 1889				HOLD FOR PICK-UP TEL. NO. BY CONSIGNEE OR CONSID			
FROM (SHIPPER'S NAME) EXPEDITEUR Gerald Kendall	SHIPPER PHONE NO. (AREA) 265-3035	e dicinate la la constanta de		RETURN DISPOS			
STREET ADDRESS ADRESSE RUE	(403) 203~3033		RECEIVED ABOVE SHPMENT IN GOOD ORDER AND I PAY ALL CHARGES INCLUDING CUSTOMS DUTES AND TO THE CONTITIONS OF CONTRACT AS STATED		ON ETAT NOUS CONSENTIONS A PAYER TOUS LES OROITS DE DOUANE ET LES TAXES BELON LES 'T SONT SPECÍFIES A L'ARRIENE DE LA COME CE		
#1500, 736 - 6th Ave. S.W.			MATERIAL CONT.	MEGENER.	STATE OF THE PARTY		
CITY VILLE PROV./STATE PROV./ETAT COUNT	RY POSTAL CODE	CODE POSTAL	South Section 19	Lists entodays was for a	Created the second		
Calgary and albertan Can	ada T2P 3T7	A A	CONSIGNEE SIGNATURE S	AND REAL PROPERTY AND PERSONS ASSESSED.	ATE/TIME DATE/HEURE		
NO OF. COMMERCIAL INVOICE FOR PKGS.	CUSTOMS	WEIGHT	PLACE AND DATE OF DIREC				
A share agree as agree was to be the same		1 a 1 a 1 a 1	IMPORTER NAME (IF OTHER TO	erta, March	ZZ, 1988		
1 Business Documents	Control of the specific of		IMPORTERIAME (IF OTHER I	PART CONSIGNALLY VENDOTTIVAL			
Term sale of the similar in the more, do some		LB KG	COUNTRY OF ORIGIN	COUNTRY O	EXPORT		
SPECIFY CURRENCY CONSTANT FOR CARRIAGE \$5.00	VALUE FOR CUSTOMS \$5.00	SPECIFY	Canada	Can	ida -		
TOTAL CHARGES BLOCK	SERVICES—CHECK ONLY ONE B	CES—CHECK ONLY ONE BOX					
PREPAID COLLECT USD CDN USD CDN	PRIORITY ONE	THESE SERVICES NO		TARIFF ITEM. VA	LUE FOR DUTY		
FREIGHT	1 D OVERNIGHT PACKAGE	3 OVERNIGHT	BOX 6 D OVERNIGHT LETTER	RATE OF DUTY S/E TAX STATUS	S.T. RATE E.T. RATE		
VALUATION	COURIER PAK	4 OVERNIGHT	TUBE 7 🗆 💮	to an indicate the second			
AND AND ACTION	2 □ OVERNIGHT ENVELOPE 5 □ STANDARD		AIR 8 🗆 🕆 😽 😘	DUTY			
ADVANCEORIGIN	eneminal median trans		Y SERVICE REQUIRED ge Applies)	SALES TAX	School about 1 16		
The second secon	or only a property than the	LI (EXII a Cilai	ge Applies)	EXCISE TAX			
DUTY	PAYMENT BILL SHIPPER	□ PAYME	NT IN ADVANCE	TOTAL	geld final heat		
	☐ BILL CONSIGNEE FEC.	. ACCT.#	AND THE SERVICE OF THE SERVICE				
	CREDIT BILL 3RD PARTY FEC.		ere see americani	I,(PLEASE PRINT NAME)			
OTHER CHARGES	THE SHIPPER AGREES TO THE TERM	S AND CONDITIO	NS OF CONTRACT AS SET	Partition Canting Strawd Straws			
	FORTH ON THE REVERSE SIDE OF THI AIR WAYBILL AND VERIFIES THAT	INFORMATION	CONTAINED ON THIS AIR	OFIMPORTER/AGENT			
TOTAL	WAYBILL TO BE TRUE AND CORRECT APPLICABLE TO THE CARRIAGE OF 1	THESE GOODS.	ONVENTION MAY ALSO BE DECLARE THE PARTICULARS OF THIS ENTRY TO BE CORRECT.				
CURRENCY CONVERSION RATE	×	Si	gnatureDate	IATURE			
TOTAL CHARGES DUE	RECEIVED BY F	E C. NO. I.F.S	S. NO. DATE/TIME				
TOTALOURINGEODE				DATE P.A. NO. AC	CT. SEC. NO.		

 In tendering the shipment for carriage, the shipper agrees to these TERMS AND CONDITIONS OF GONTHACT which no agent or employee of the parties may alter and that this Federal Express Air Waybill is NON-NEGOTIABLE and has been prepared by the shipper or on his behalf by Federal Express.

2. Carriage hereunder is subject to the fules relating to liability established by the Convention of the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929, as amended, and so far as the same is governed thereby, unless such

carriage is not International as defined by the Convention.

3. The shipper agrees that carriage is subject to the terms and conditions of contract stated herein, and those terms and conditions which are also stated in the most recent Federal Express Service Guide which is available for inspection and incorporated into this contract by reference and applicable tariffs filed with the Canada Transport Commission.

In tendering the shipment for carriage the shipper warrants that the shipment is packed adequately to protect the enclosed goods and to ensure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted).

for carriage as specified.

5. DECLARED VALUE AND LIMITATION OF LIABILITY. The liability of Federal Express is limited to the sum of CDN \$120.00 unless a higher value is declared for carriage herein and a greater charge paid at the rate of CDN \$.35 per CDN \$120.00 value. The maximum declared value is CDN \$600.00. The liability of Federal Express is limited to the declared value of the shipment or the amount of loss or damage actually sustained, whichever is lower.

Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof, violation by the shipper or consignee of any of the conditions of contract contained in this air waybill or applicable tariffs including but not limited to improper or insufficient packing, securing, marking, addressing or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under certain conditions, acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority, authority of law acts, or omissions of Customs or quarantine officials, riots, strikes or other local disputes, Civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts of omissions of any person other than Federal Express, including compliance with delivery instructions from the shipper or consignee. Federal Express shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. Federal Express shall not be liable in any event for any special or consequential damages including but not limited to the loss of profits or income whether of not

Federal Express had knowledge that such damages might be incurred CLAIMS Written notice of loss due to damage or delay must be reported by the shipper within 15 days after the delivery of the shipment. Written notice of loss due to non-delivery must be reported by the shipper within 180 days after acceptance of the shipment for carriage. Written notification will be considered to have been made if the shipper calls and notifies his local Federal Express City Station and as soon as practicable thereafter files a written notification. Documentation of all claims other than overcharge claims must be submitted in writing to Federal Express within ninety (90) days after receipt of written notification. NO claims for damage will be entertained until all transportation charges have been paid. The amount of a Claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facia evidence that the shipment was delivered in good condition, except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify Federal Express in writing as promptly as possible after the discovery. If more than 15 days shall elapse between the date of delivery of the shipment and notice of damage by the shipper, the shipper shall show good cause why the damage was not discovered earlier and timely notification not given. The shipper must make the original shipping cartons and packing available for inspection by Federal Express. Claims for overcharges and refunds must be made in writing to Federal Express within twelve (12) months of the billing date.

All claims must be filed by the shipper.

 In order to ensure safe transportation all shipments are subject to inspection by Federal Express including, but not ilmited to opening the shipment However, Federal Express is not obligated to perform such inspection.

 C O D services are not available and a C O D shipment sent in error will be delivered as a normal pre-paid or collect shipment.

 Federal Express carries no cargo llability insurance, but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

0. The shipper and consignee agree that the act of Customs clearance will

be performed by the carrier's designated broker.

11. Notwithstanding any agreement to the contrary, the shipper shall be primarily responsible for all freight charges incident to shipment to the consignee. In the event the shipment is undeliverable, the shipper shall be responsible for all reasonable costs of returning the shipment to the shipper or of otherwise disposing of the shipment per the shipper's instructions marked on the face hereof.

Federal Express P.O. Box.727 Dept. G Memphis, TN, 38194 CITY GOLD CORPORATION

AND

COATES DRILLING INC.

THIS	AGREEMENT	made	the		dau	of		19	
------	-----------	------	-----	--	-----	----	--	----	--

BETWEEN.

CITY GOLD CORPORATION
Suite 1500, Canada Life Tower
736 - 6th Avenue S.W.
Calgary, Alberta
T2P 3T7

Hereinafter referred to as "The Company"

OF THE FIRST PART

AND

COATES DRILLING, INC. 7583 Vantage Place Delta, British Columbia V4G 1A5

Hereinafter referred to as "The Contractor"

OF THE SECOND PART

WHEREAS the Company has requested the Contractor to complete a minimum of 800 feet of drilling and other services as set forth, on the property of the Company in the Fernley area in the State of Nevada.

AND WHEREAS the Contractor has agreed to do the said diamond drilling and to perform the other services requested upon the terms, conditions and provisos herein contained.

NOW THEREFORE this Agreement witnesseth that in consideration of the payment of the amounts herein stipulated and of the mutual covenants hereinafter contained, the parties hereto agree as follows:

SCHEDULE OF RATES - CORING:

THAT the Company hereby employs the Contractor to drill on the said property, a series of bore holes using NQ core barrels producing a core of approximately 1 15/16 inches in diameter. The Company agrees to pay the Contractor on a footage basis for all drilling according to the following Schedule of Rates:

From	To	Price/Foot
0'	- 500° in depth	\$ 18.35
500'	- 1000 in depth	\$ 19.80

All prices are quoted in U.S. dollars.

It is understood that measurements of all bore holes shall be from the top of the casing or stand pipe as the case may be.

OVERBURDEN:

THAT the Company agrees to pay for casing or stand pipe for the first 25 feet in any hole according to the following Schedule of Rates:

From			_	<u>To</u>	Price/Foot			
	0.	_	25 feet in	n depth	\$ 18.50			
	25	_		plus	Field Cost			

The Company further agrees that in the event that casing or stand pipe on any hole exceeds 25 feet, then charges for casing or stand piping on that hole shall be charged on a Field Cost Basis from the 25 foot depth to bedrock.

Whenever pipe or casing is lost, or left in a hole on the instructions of the Company's representative, then the Company agrees to pay for said casing or pipe at prices F.O.B. drill site plus twelve percent.

The Company further agrees to compensate the Contractor at the rate of \$ 1.85 per foot of casing employed for that portion of the hole completed on a field cost basis. Said amount per foot to compensate for the wear and tear on the casing.

MOBILIZATION/DEMOBILIZATION:

THAT the Contractor agrees to move his drill crew, drill equipment and supplies from his base to truck unload point (as close as practicable to the drill sites) and return from truck load point to his base for the lump sum of \$1000.00.

The movement of the drill crew, drill equipment and supplies from the truck unload point to the first drill site and from the last drill site to the truck load point, including unloading and loading, will be performed on a Field Cost Basis charged to the Company at Operating Field Cost Rates.

The Company will open the road to the property between drill sites prior to the Contractor mobilizing the drill and equipment.

The Company agrees to supply a tractor to aid in mobbing and demobbing the drill equipment and supplies.

WATER SUPPLY:

THAT the Company agrees that the above Schedule of Rates are deemed to include maintaining waterlines up to a distance of $\frac{2000}{2000}$ feet and /or a vertical lift of 200 feet.

400

Should the distance be greater than 2000 feet and /or the lift greater than 200 feet as measured along the waterline, maintaining the waterlines will be charged on a pro-rata basis; the above distance to the Contractor's account and the "over" charged to the Company's account at Operating Field Cost Rates.

Should the required supply of water ever exceed the limits of single stage pumping, then the Company agrees to supply the necessary water by hauling to the drill sites by tanker truck. Hauling water will be performed by a subcontractor to be arranged by the Company. All water hauling charges will be for the Company's account.

MOVING BETWEEN HOLES/SETTING UP/TEARING DOWN/LAYING AND REMOVING WATERLINES:

THAT the Contractor agrees that the Schedule of Rates includes the first 10 man hours employed tearing down, moving between holes, laying and

removing waterlines and setting up the drill. Hours employed in excess of 10 man hours will be charged to the Company at Operating Field Cost Rates.

The Contractor agrees to suppy a suitable tractor to facilitate moving between drill sites.

MUD, ADDITIVES, CUTTING DILS, AND GREASES

THAT it is mutually agreed that the mud and additives, cutting oils and greases consumed penetrating the overburden and/or aiding in core recovery while core drilling, will be charged on the basis of cost on job site plus 12 percent.

Time and materials spent recovering lost circulation and/or stabilizing the drill hole due to cave, artesian flow, etc. will be charged to the Company at Operating Field Cost Rates for all labour, equipment time and materials consumed.

HOLE STABILIZATION:

THAT the Company agrees that hole stabilization hours are those chargeable hours during which unanticipated events such as lost circulation, rock cave-in, flowing sand or artesian inflow are being dealt with and during which hole depth is not being gainfully advanced but the rig is being operated at anything greater than an idle. Such time will be charged to the Company at Operating Field Cost Rates for all labour, equipment and materials consumed.

REAMING AND CASING:

THAT the Company agrees that all reaming and casing that is necessary to stop cave-ins or maintain the return flow of water will be completed by the Contractor as required and that the costs incurred by the Contractor performing such reaming and placing of such casing will be charged to the Company at Operating Field Cost Rates.

Casing usage will be charged at the rate of \$ 1.85 per foot reamed to compensate for wear and tear on the casing.

CEMENTING:

THAT the Company agrees that all cementing that is necessary to stop cave-ins or maintain the return flow of water will be completed by the Contractor as required and that the costs incurred by the Contractor performing such cementing will be charged to the Company at Operating Field Cost Rates for all labor, equipment and materials consumed.

The Contractor will supply the cement materials at cost F.O.B job site plus 12 percent.

Waiting for cement to set will be charged to the Company at Non Operating Field Cost Rates for all labor, and equipment time.

Drilling cement will be performed on a Field Cost Basis and charged to the Company at Operating Field Cost Rates.

TRAVELLING TIME

THAT the Company agrees that should the time required to walk / travel / or ride from the Contractor's lodging site / camp to the drill site and return per man per shift be greater than 1 hour, then that time "over" will be paid to the Contractor at Operating Field Cost Rates for labor, and vehicle.

DIRECTIONAL AND CONTROLLED DRILLING:

THAT it is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

CAVED OR BROKEN GROUND

THAT in the event cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such incompleted holes at the rates herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming or casing, the Company agrees to reimburse the Contractor to the extent of field cost.

ACID TESTS:

THAT the Contractor agrees to take acid dip tests at the depths as instructed by the Company's representative. Such tests will be charged to the Company at the rate of three feet of drilling at the depth the tests are taken.

CORE BOXES:

THAT the Contractor agrees that, if requested by the Company, core boxes with lids will be supplied at actual cost F.O.B. job site plus 10 percent.

FUEL:

THAT the Contractor agrees that the fuel required for operation of the Contractor's drill equipment is included in the Schedule of Rates.

BOARD AND LODGINGS:

THAT the Company agrees to supply suitable board and lodgings for the Contractor's personnel at no cost to the Contractor.

DRILLING SITES:

THAT the Contractor agrees to case and drill a series of bore holes on the sites and at inclinations and azimuths as selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

THAT the Company agrees that the cost of building and maintaining access roads, preparation of suitable drill sites and reclamation of drill sites if required, will be for the Company's account.

OPERATING FIELD COSTS

THAT the Company agrees that the following rates will apply when certain work, as defined in this contract, is performed on a Field Cost Basis. "Field Cost" items are defined as all direct labour, supervision, drill and support equipment, diamond tools, down the hole materials and other supplies consumed in this work.

Labor

\$ 23.50 per man hour

Drill with equipment

\$ 27.25 per hour

Materials consumed

at cost on job site plus 12 percent

Reaming casing

\$ 1.85 per foot reamed to cover

wear and tear on casing.

NOTE: The above equipment is only charged when applicable.

No charge is made for drill equipment when moving between holes,

mobilizing or demobilizing to and from the job site unless there are delays
beyond the Contractor's control.

NON OPERATING FIELD COST:

THAT the Company agrees that the following rates will apply when certain work, as defined in this contract, is performed on a Non Operating Field Cost Basis. Non Operating Field Cost items are defined as delay time while waiting for instructions from the Company's representative, waiting for cement to set, standby while logging the drill hole and any other delay caused by the Company and / or delays beyond the Contractor's control.

Labor (maximum 8 hours/man/shift)

\$ 21.50 per man hour

Drill with equipment (max. 10 hours/day) \$ 22.25 per hour

SECURITY:

THAT the Contractor will not give out any information regarding drill results or access to core to any person other than to the Company's representative.

DISCIPLINE:

THAT the Contractor will, at all times, enforce discipline and maintain good order among its employees and will not retain, on the job, any person not skilled in the work assigned him.

INSURANCE-

THAT the Contractor, during the entire term of this agreement, will keep in full force and effect a policy of public liability and property damage insurance with respect to the work undertaken in this agreement, in the amount of \$2,000,000 for any one accident.

The insurance will be with an insurance company duly licensed to do business in the State of Nevada.

ENVIRONMENT:

THAT during the course of the work, the Contractor shall at all times keep the clients premises free from accumulation of waste material or rubbish

and upon completion of the work shall remove all tools, scaffolding and surplus material and leave the premises in a clean condition. The Contractor will observe and comply with all applicable Federal and State laws.

RIGHTS OF WAY:

THAT the Company agrees, at its own expense, to provide all rights-of-way, all rights of ingress and egress and all real property that may be required in connection with said work, including real property upon which all necessary temporary buildings may be erected, and other facilities required, and shall also warrant the quiet and peaceful possession of all such real property and shall save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatever kind or character incident to the occupation of said real property.

WORKERS COMPENSATION-

THAT the Contractor agrees that the personnel employed by him in the performance of this contract shall be fully covered under the Worker's Compensation laws according to the State of Nevada and will keep such personnel covered, pay the assessments required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

PAYMENTS:

THAT the Company agrees to make payments at the rates hereinbefore specified in accordance with the terms hereinafter set out, that is: For all

work done hereunder between the first and fifteenth day and the sixteenth and last day of the month, invoices will be due and payable when rendered. Interest at a rate of bank prime plus four percent per annum will be added to all accounts more than thirty days overdue from date of invoice. These payments shall be made as the work progresses in conformity with the Contractor's semi-monthly invoices.

RIGHT OF CANCELLATION:

THAT the Contractor reserves the right to cancel this contract should its fulfillment be rendered impossible by:

- (a) War, invasion, insurrection, riot, the order or regulations of any civil or military authority, or by strikes, lockouts, or labour disputes, whether in or in the neighborhood of the Contractor's plant or of that of any supplier of materials necessary for the completion of the contract.
- (b) The inability to obtain essential materials and supplies due to priority restriction.
- (c) The inability to secure labour due to restrictions or causes beyond the Contractor's control, and the Contractor shall not be liable for any loss or damage directly or indirectly suffered by the Company by reason of exercise of such right of cancellation.

THAT it is mutually agreed that this agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by either party without the consent in writing of the other party first had and obtained.

THAT it is further agreed that this agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of the State of Nevada.

THAT any notice required to be given hereunder shall be properly given if mailed by registered letter addressed the the Company as follows:

CITY GOLD CORPORATION

Suite 1500, Canada Life Tower

736 - 6th Avenue S.W.

Calgary, Alberta

T2P 3T7

OR to the Contractor by registered letter addressed as follows:

COATES DRILLING, INC.

7583 Vantage Place

Delta, B. C.

V4G 1A5

IN WITNESS WHEREOF these presents have been executed by the parties hereto the day and year first above written:

SIGNED AND DELIVERED

In the presence of

CITY GOLD CORPORATION

per_____

per_____

COATES DRILLING THE.

ner

her

LaPrairie Mining Limited

2525 SHARON WAY; RENO, NV 89509; (702) 826-2838 OFFICE, 826-3049 HOME

February 12, 1988

&company& &gen/o& &first/o& &last/o& &street/o& &box/o& &city&, &state& &zip&

Dear Sirs:

We wish to take this opportunity to invite you to bid on a preliminary drill program for our Paiute Project in Washoe County, Nevada.

The scope of work would entail drilling of one hole, minimum length of 800' at an angle of 60 degrees from horizontal. This hole will be either reverse circulation rotary, 5" or larger, or core, minimum size, NQ.

The drill rig should be skid or track mounted as the final grade to the drill site is too steep for a truck mounted rig.

Would you please inform us as to footage rates, mobilization costs, standby and hourly rates and drill availability.

Please find a composit map showing the location at three different scales. The project is located approximately six miles southwest from Nixon, Nevada and is 50 miles east of Reno.

We wish to complete this project by June 30, 1988.

If there are any questions or you wish to arrange a site visit, please feel free to call.

Yours truly,

Dennis S. LaPrairie

encl.

		COAT		RILLIN ME REPOR	IG, INC.	()	We ar	e nui	mber (ONE	10	
CONTRACT NAME	Rrist	lerane			OB NO. 836		1	1	3/	The state of the s	1	_/	
	Tune	7		aing J	OB NO.		/		12/	0/	/		
DATE P. Q	8-1		DAY			,	1	1	40	7	/ " ,		
AZA			AFTE	RNOON [/	~. Y	0.7	/K	/	/		
SIZE /V 9	400		NIGH	іт 🗆		/ 4	ON THE WAY	The last	Service 1	A STATE OF THE STA	4		
		FROM	то	FEET	OPERATION	DRILL		HOURS	HOURS	HOURS			
CORING					CORING								
OVERBU	RDEN				OVERBURDEN	Sec.							
DRILLC	EMENT				CEMENTING						and the particular of the second		
REAM CA	ASING				REAMING CASING						TE	ST DEPT	HS
					TESTING								
WATER LINES: DIST	ANCE 1200	FT. LIFT _	300 F	т.	WATER LINES		1	1					
MOVING: UNDER EQ	UIPMENT SHOW	V TRACTOR 8	TRUCK H	OURS	MOVING								
			14.		SETTINGUP/TEAR DOWN		1	1		1			
					SUPERVISION						i Mary America		
MOBILIZATION: FRO	M BASE TO TR	UCK UNLOA	DPOINT			1	2	2	8.00				
DEMOBILIZATION: F	ROM TRUCK L	OAD POINT T	OBASE			+34		1			3		
MOBILIZATION: FRO	M TRUCK UNL	OAD PT. TO	st HOLE			4,	6	6	a l				
DEMOBILIZATION: F	ROM LAST HO	LE TO TRUCK	LOAD POI	NT		i							
	EQUIPM	ENT DATA											
UNIT	HOURS	REI	MARKS 1		HOLE STABILIZING								
TRACTOR					T. DRIVING						-		
6 x 6 TRUCK					CAMP								
4 x 4 TRUCK					REPAIRS & MAINT.		0	-					
PICKUP TRUCK					WALKING		Z	2					
MUD MIXER	Ŧ				OTHER								
COIL STOVE													
Extra variety					TOTAL HOURS		12	12					
GENERAL COMMENT	rs: had	to we	ait to	o get	site mad.	e.	ria	ht	on	и	10 h	111	
road.				0		•	/	20					
					de Americania						, X,		
MATERIALS USED	OR LOST				1							19.	
QUANTITY				ITEN	& REMARKS				1			APPROV	/AL
*					· ·								
100			\					q.					
1. 13	ed diam	and an	and the second						\				
		n		7				/					
- 4	110	5		1			51		^	,			
CUSTOME	R ////	de by	to a	in .	COMPANY	/	100	- P	Kerta	ne	ب	A 8	_

CONTRACT NAME Bristleione Mining JOB NO. 936 DATE JUN 02 DAY HOLE NO. P. 88-1 SIZE NO - 40° FROM TO FEET OPERATION OPERATION OVERSHOURS HOURS TESTING WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES MOVING UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOSILIZATION: FROM TRUCK UNLOAD POINT TO BASE MOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS TRACTOR T. DRIVING CAMP A* A TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING OTHER TOTAL HOURS GENERAL COMMENTS: 1 A 20 C A0 F	1.		,	C	COAT		RILLIN ME REPOR	IG, INC.	(We a	re nui	mber	ONE	1	0
DATE	CONTRACT	NAME	Br	ist	Lecon	e M	lining s	OB NO 836		/	./	1	100	1	' /	
SIZE	DATE	Jun					/ -			/	1	0/ 5	14	/-	/	
SIZE NG 40° NIGHT FROM TO FEET OPERATION PRILL HOURS 1	HOLE NO. P	- 88	-/			AFTE	ERNOON [/	1 7	1 7	13	1 /			
FROM TO FEET OPERATION OR SHOURS HOURS HOU	SIZE Ng) –	400			NIGH	ıı 🗆		/	ON	w V	James S.	V.	James /		
OVERBURDEN OVERBURDEN DRILL CEMENT REAM CASING REAMING CASING TEST DEPTHS TEST DEPTHS TEST DEPTHS WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. WATER LINES SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN 3 3 SUPERVISION WADER LINES: DISTANCE 200 FT. WATER LINES WATER LINES: DISTANCE 200 FT. WATER LINES WATER LINES MOVING SETTINGUP/TEAR-DOWN 3 3 SUPERVISION SUPERVISION TO DISTANCE 200 FT. WATER LINES TEST DEPTHS					FROM	то	FEET	OPERATION	DRILL							
OVERBURDEN DRILL CEMENT REAM CASING REAMING CASING REAMING CASING TEST DEPTHS TESTING WATER LINES: DISTANCE DEPTHS WATER LINES: DISTANCE FT. LIFT 300 FT. WATER LINES MOVING SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SUPERVISION WOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO 1st HOLE DEMOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING T. DRIVING \$ ** 6 TRUCK MALKING MUD MIXER COIL STOVE TOTAL HOURS // // TOTAL HOURS TOTAL HOURS // // TOTAL HOURS // // TOTAL HOURS // // TOTAL HOURS TOTAL HOU	cor	RING			10	54	44	CORING		4	4					
DRILL CEMENT REAM CASING REAMING CASING TESTING TESTING WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SETTINGUP/TEAR-DOWN SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING A 4 TRUCK REPAIRS & MAINT. WALKING MUD MIXER TOTAL HOURS // // TOTAL HOURS // //	ovi	ERBURG	DEN		200	10	10	OVERBURDEN		1	1					
TESTING WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS SETTINGUP/TEAR-DOWN SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 ** 6 TRUCK A ** 4 TRUCK PICKUP TRUCK WALKING MUD MIXER OTHER TOTAL HOURS // //	DR	ILL CEM	ENT					CEMENTING								
WATER LINES: DISTANCE 200 FT. LIFT 300 FT. WATER LINES / / / MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS MOVING SETTINGUP/TEAR-DOWN 3 3 SUPERVISION 3 3 MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING T. DRIVING T. DRIVING A 4 4 4 TRUCK MALKING A 4 4 4 TRUCK MALKING A 4 4 TRUCK MALKING A 5 MALKING A 5 MALKING A 6 MALKING A 6 MALKING A 7 M	REA	AM CASI	ING					REAMING CASING							TEST DE	PTHS
MOVING UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS SETTINGUP/TEAR-DOWN SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR 6 x 6 TRUCK CAMP 7 L DRIVING 6 x 6 TRUCK REPAIRS & MAINT. PICKUP TRUCK MUD MIXER OTHER TOTAL HOURS // //						Page 15 No. 1		TESTING		4						
SETTINGUP/TEAR-DOWN SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING MUD MIXER OTHER TOTAL HOURS // //	WATER LINES:	DISTAN	CE 120	00 F	T. LIFT _	300 F	т.	WATER LINES		1	1					<u> </u>
SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING MUD MIXER COIL STOVE TOTAL HOURS // //	MOVING: UNDE	REQUI	PMENTS	ноw т	TRACTOR 8	TRUCK H	OURS	MOVING								
MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING MUD MIXER COIL STOVE TOTAL HOURS // //								SETTINGUP/TEAR DOWN		3	3					
DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING MUD MIXER COIL STOVE TOTAL HOURS // //								SUPERVISION								
MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING OTHER COIL STOVE TOTAL HOURS // //	MOBILIZATION	: FROM	BASE TO	TRUC	CK UNLOAD	POINT								Archael a page of the second		
DEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT EQUIPMENT DATA UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP A x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING MUD MIXER COIL STOVE TOTAL HOURS // //	DEMOBILIZATI	ON: FRO	M TRUC	K LOA	D POINT T	O BASE								-	NEW PART OF PROPERTY OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF	THE PASSAGE STREET, ST
UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK MUD MIXER COIL STOVE TOTAL HOURS // //	MOBILIZATION	: FROM	TRUCK	INLOA	AD PT. TO 1	st HOLE								B		
UNIT HOURS REMARKS HOLE STABILIZING TRACTOR T. DRIVING 6 x 6 TRUCK CAMP REPAIRS & MAINT. PICKUP TRUCK MUD MIXER COIL STOVE TOTAL HOURS // //	DEMOBILIZATI	ON: FRO	OM LAST	HOLE	TO TRUCK	LOAD POI	INT									
TRACTOR T. DRIVING CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING OTHER COIL STOVE TOTAL HOURS // //			EQU	IPMEN	NT DATA	W										
6 x 6 TRUCK CAMP 4 x 4 TRUCK REPAIRS & MAINT. PICKUP TRUCK WALKING OTHER COIL STOVE TOTAL HOURS // //	UNIT		HOURS		REN	MARKS		HOLE STABILIZING	9884	14						
4 x 4 TRUCK PICKUP TRUCK WALKING OTHER COIL STOVE TOTAL HOURS REPAIRS & MAINT. WALKING // //	TRACTOR							T. DRIVING								A C B C C C C C C C C C C C C C C C C C
PICKUP TRUCK WALKING // MUD MIXER OTHER TOTAL HOURS // //	6 x 6 TRUCK							CAMP		30	4					
MUD MIXER / OTHER / / / COIL STOVE TOTAL HOURS // //	4 x 4 TRUCK		- 1					REPAIRS & MAINT.								i ref.
COIL STOVE TOTAL HOURS // //	PICKUP TRUCK							WALKING	199	1	1					
TOTAL HOURS // //	MUD MIXER		1					OTHER	1	-1		and the second	and the second section of the second	蒙		
	COIL STOVE													AN ALL		
GENERAL COMMENTS: 1hr Burn in anchor								TOTAL HOURS		11	11					
	GENERAL COM	MENTS:	14	~	Burr	2 1/1	anc	hor			4					
							19									
							e ve me								4	
													Parameter State of the State of			
MATERIALS USED OR LOST	MATERIALSU	SED OR	LOST											in the		
QUANTITY ITEM & REMARKS APPROVAL	QUANTITY						ITEM	& REMARKS							APPRO	DVAL
1 alcomer 120 L	1	al	com	er	12	20 4										
133 tri-cone	1	3	る.	tri	-con	2										
3/Khan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						2/1/2	90 1	Part La Para								
	,				3	Maria San						The said				
Marie Control of the				1	Law J. C.		7	2. 37.72%		200						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CUSTOMER Mellery Cer COMPANY Don Kirknen	01103	OMER	411	u	4/1	de.	7 ' 5	COMPANY	8	2	m	H	nk	ne		

CONTRACT	NAME	B_r			DAILY TIN	ME REPOR	IG, INC.	(0	We a	re nu	mber	ONE	1	0
DATE	Ju	une	3		DAY	7 (9			/.	9/	9/(1/2/	/	/	
HOLE NO.	P- 8	38-1				RNOON 🗆		,	1 4	13	100	7			
SIZE N	10	- 40	U		NIGH			/	0./	0/	Rei/	/	/		
	1							/ 6	ON THE	Name .	James .	TANK TO	ME		
. 1+				FROM	то	FEET	OPERATION	DRILL				HOURS			
co	RING			54	144	90	CORING		8	8					
ov	ERBUR	DEN					OVERBURDEN								
DR	RILL CEN	MENT					CEMENTING	No.							
RE	AM CAS	ING					REAMING CASING							FEET DES	*****
						4.4	TESTING		A					EST DEP	THS
WATER LINES:	DISTAN	ICE 12	00 F	T. LIFT _	300 F	. 1	WATER LINES							1	1
MOVING: UND	ER EQUI	PMENTS	ноw т	RACTOR &	TRUCK HO	DURS	MOVING		10.0					044	
							SETTINGUP/TEAR DOWN								
							SUPERVISION								
MOBILIZATION	N: FROM														
DEMOBILIZATI	ION: FRO	FROM TRUCK LOAD POINT TO BASE													
MOBILIZATION	N: FROM														
DEMOBILIZATI	ION: FRO	FROM LAST HOLE TO TRUCK LOAD POINT													
		EQU	IPMEN	T DATA						1					
UNIT		HOURS		REM	IARKS		HOLE STABILIZING		2	2					
TRACTOR							T. DRIVING		_		7.7				
6 x 6 TRUCK							CAMP		10000						
4 x 4 TRUCK							REPAIRS & MAINT.							1 H	
PICKUP TRUCK							WALKING		,	1					
MUD MIXER		1					OTHER		and the second of the	appropriate of	200 10020	gasyana Mariaba			
COIL STOVE										4					
							TOTAL HOURS		11	11					
GENERAL COM	MENTS:	26	W.C.	040	- pine	do	un cotton		-	1//					
	IIIICIN I O			P	Fing	, 40	on 10110A :	100	9	X		g) à			
	Jacobs Communication of the Co														
MATERIALSU	SED OR	LOST											10		
QUANTITY						ITEM	& REMARKS					A. L.		APPRO	VAL
1	al	com	er	12	OL										
. /	b	00	of			seed	1								
84/	11	Led	7) jamo	1	step	bit # 1P6	00	8						
,				/		J-P				4	= 11	4 6	+		
						7	100,490		1-			. 1	- 1, W ₁		
		//	1	1	//	·					,		-		
CUST	OMER_	Men	In	e by	de	~ '	COMPANY	d	on	1	dul	Em			

1			ES DR		G, INC.	()	We ar	e nui	mber	ONE	1	0	
CONTRACT NAME _	Brist	/econe	Min	ing s	OB NO. 836		/	9/	DY:	1 Sec	/	/		
DATE _ Jun	c 4		DAY	10	Contract the second		12	1/2	9/	7	/-	/		
HOLE NO. P-8	8-1		AFTE	RNOON 🗆		/	')	(-)	3	/ /	/	/		
SIZE NO	-400		NIGH	т 🗆			ON IN	The last	W S	w X	w/			
		FROM	то	FEET	OPERATION	DRILL				HOURS				
CORING		144	236	92	CORING		8	8						
OVERBURDE	EN				OVERBURDEN									
DRILL CEME	ENT				CEMENTING									
REAM CASIN	NG				REAMING CASING						т	EST DEP	THS	
					TESTING					7				
WATER LINES: DISTANC	E 1200	FT. LIFT	300 FT	r	WATER LINES									
MOVING: UNDER EQUIP	MENT SHOW	TRACTOR 8	TRUCK HO	DURS	MOVING									
1					SETTINGUP/TEAR DOWN									
***					SUPERVISION	130					-			
MOBILIZATION: FROM B	BASE TO TRU	CK UNLOAD	POINT											
DEMOBILIZATION: FROM	ZATION: FROM TRUCK LOAD POINT TO BASE TION: FROM TRUCK UNLOAD PT. TO 1st HOLE													
MOBILIZATION: FROM T														
DEMOBILIZATION: FROM	ON: FROM LAST HOLE TO TRUCK LOAD POINT													
UNIT														
TRACTOR					T. DRIVING		spire.							
6 x 6 TRUCK					CAMP									
4 x 4 TRUCK		1	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		REPAIRS & MAINT.									
PICKUP TRUCK					WALKING		1	1		a Arcalone		4		
MUD MIXER	1				OTHER			545 m (SHA)						
COIL STOVE														
					TOTAL HOURS		11	11						
GENERAL COMMENTS:	Trip	for	mis	lateh										
2 hus. pu	mpin		own	Los	1	tion	/	Ma	ter	icel	1			
		/												
				•										
MATERIALS USED OR L	LOST			190 (2)					1					
QUANTITY				ITEM	& REMARKS							APPRO	OVAL	
1 alc	comer	120	1											
	7.00													
								Prv.	~~					

				2										
	6//	4	///	- 1			1		1	1	ja.			
CUSTOMER_	Melle	MI	100	Turns	COMPANY		26	~ 1	n	home	1.			

1.			DAILY TI	ME REPOR	NG, INC.	(We a	re nu	mber	ONE	1	
CONTRACT NAME	Brist	LECONE	Min	ina.	JOB NO. 836			/	' A	(E)	,	/ /	
DATE JUNE	05		DAY				/	_/-	3	Y	/		
HOLE NO. P-8	8-1			ERNOON [1	4	1	Ž,	/		
SIZE NO-	400		NIGH			1	9.7	V	12/	/	/	/	
						1	D'III	Manie .	Wall.	No.	W/		
		FROM	то	FEET	OPERATION	DRILL				HOURS			
CORING		236	324	88	CORING		19	9					
OVERBU					OVERBURDEN								100
DRILL CI			*		CEMENTING							-11	
REAM CA	VSING				REAMING CASING	A					,	EST DEPT	HS
					TESTING								
WATER LINES: DISTA	NCE 1200	FT. LIFT _	300 FT	r. 5000	WATER LINES								
MOVING: UNDER EQ	UIPMENT SHOW	V TRACTOR 8	TRUCK HO	DURS	MOVING					1 9 1			
					SETTINGUP/TEAR DOWN								
					SUPERVISION				WP (
MOBILIZATION: FRO	M BASE TO TR	UCK UNLOAD	POINT										
DEMOBILIZATION: FI	ROM TRUCK L	OAD POINT T	O BASE			*							
MOBILIZATION: FRO	M TRUCK UNL	OAD PT. TO 1	st HOLE						- 2				
DEMOBILIZATION: FI	ROM LAST HOL	LE TO TRUCK	LOAD POIN	NT									1/5
	EQUIPM	ENT DATA				100							
UNIT	HOURS	REM	MARKS		HOLE STABILIZING		1	1					100
TRACTOR					T. DRIVING		agirn.	AL					
6 x 6 TRUCK					CAMP				1	je	1111111		
4 × 4 TRUCK					REPAIRS & MAINT.					-			
PICKUP TRUCK				4	WALKING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A	Z				e/	
MUD MIXER	1				OTHER		F	7					
COIL STOVE							3	B					
					TOTAL HOURS		13	18			* * * * * * * * * * * * * * * * * * *		
GENERAL COMMENTS	54/10	OCINO	hale	+01	RECAPIN CIRCUL	12 +	MATERIAL MATERIAL STREET	12					
	7	19"9	77076	/ /	1897IN TIRCUI	9/10	N	1			¥		
MATERIALS USED OF	RLOST	,											
QUANTITY				ITEM	& REMARKS						T	APPROV	AL
						1990					+		
			//	7	<u>\$</u>				1				
	-IA		//	١.			1			-,-			
CUSTOMER	Mu	w /	lan		COMPANY	2	on	100	nh	Ine.	-		

11 .			COAT	ES DI	RILLIN ME REPOR	NG, INC.		2	We a	re nu	mber	ONE	11 6	^
CONTRAC	TNAME	Brist	1-6-	M	WE REFOR	JOB NO. 836			~ /		14/	,		9
DATE	Jun	e 6	1 c Com.		1			/	1	16	10	/		
HOLE NO.	P-88	-1		DAY				15	13	9/01	7	/:		
SIZE /	VQ - 1	400			ERNOON .		/	0./	0.7	Ani)	/			
	1			NIGH	4T [/	ON INC	Jane .	James .	Wall a	James /		
			FROM	то	FEET	OPERATION	DRILL				HOURS	Grand Bridge		
	ORING		324	400	76	CORING		8	8					
0	VERBURDEN					OVERBURDEN								
D	RILL CEMEN	Г				CEMENTING		4						
, R	EAM CASING					REAMING CASING								
						TESTING						IE	ST DEPT	THS
WATER LINES	DISTANCE	1200 F	T. LIFT 💆	300 FT	г.	WATER LINES								
MOVING: UND	DER EQUIPME	NT SHOW	FRACTOR &	TRUCK HO	DURS	MOVING								
						SETTINGUP/TEAR DOWN						2 (
						SUPERVISION					(2)			
MOBILIZATIO	N: FROM BAS	E TO TRUC	K UNLOAD	POINT										
DEMOBILIZAT	ION: FROM T	RUCK LOA	D POINT TO	DBASE										
MOBILIZAŢIO	N: FROM TRU	CK UNLO	D PT. TO 1	t HOLE										
DEMOBILIZAT	ION: FROM L	AST HOLE	TO TRUCK	LOAD POIN	NT									
		EQUIPMEN	IT DATA											
UNIT	нос	IRS	REM	ARKS		HOLE STABILIZING		7	7					
TRACTOR						T. DRIVING		2	2					100
6 x 6 TRUCK						CAMP								
4 x 4 TRUCK						REPAIRS & MAINT.			1.0					
PICKUP TRUCK						WALKING		,	,				1.0	
MUD MIXER	1					OTHER		-	-					110
COIL STOVE												**************************************		
						TOTAL HOURS		11	11			la establica		
GENERAL COM	MENTS: 2	hrs	Dum	0 1	03+ 0	irculation	-/-	//	//	1/		4.	-1	
		al 1950.			237 6	Irculation Mater	ia (wn		the	ce	TI	meg	
										1000				—
MATERIALSU	SED OR LOST													
QUANTITY					ITEM	REMARKS						1	APPROV	AL
1	alcon	ner	120	۷.										
	Hudd	y BA	feen	#9:	359/	38 footage	7	24-	401) =	27/	P		
trate of the second		,			1	1-01-96		-/-	100		c / W	1		
e e														Section and participates
		1			7							7		
ğ		1//	9	//	1			0				p		
CUST	OMER /	ller	1/1	lac	~	COMPANY _	1	Jon	pe	nk	nes			

11	COAT		RILLIN ME REPOR	G, INC.	()	We a	re nui	nber (ONE		
CONTRACT NAME Brist	lecone	Mini	W.P. 10	OB NO 936		/	1	37	14.5	/	1	
DATE - June 7		DAY	7 0			/.	1/	3/2	64	/		
HOLE NO P-88-1			RNOON		/	15	13	1	1	/ /		
SIZE NQ -400		NIGH			/	0/	0/	16/	/	/		
		Nigh			/ &	ON THE N	Jame :	TAME X	Nat Nat	4/		
	FROM	то	FEET	OPERATION	DRILL		English to	HOURS				
CORING	400	462	62	CORING		7	7					
OVERBURDEN				OVERBURDEN								arina
DRILL CEMENT				CEMENTING								
REAM CASING				REAMING CASING						TES	T DEP	THS
				TESTING								
WATER LINES: DISTANCE 120	FT. LIFT	700 FT	ri	WATER LINES								
MOVING: UNDER EQUIPMENT SHOW	V TRACTOR 8	TRUCK HO	DURS	MOVING								
				SETTINGUP/TEAR DOWN								
				SUPERVISION								
MOBILIZATION: FROM BASE TO TR	UCK UNLOAD	POINT									************	enterior de la companya de la compa
DEMOBILIZATION: FROM TRUCK L	DAD POINT T	O BASE										THE SECOND STREET, STR
MOBILIZATION: FROM TRUCK UNL	OAD PT. TO 1	st HOLE	3							140		
DEMOBILIZATION: FROM LAST HOL	E TO TRUCK	LOAD POIL	NT									
EQUIPM	ENT DATA				78							
UNIT HOURS	REN	MARKS		HOLE STABILIZING		3	3					
TRACTOR				T. DRIVING		Virtual Control						and the supplier of the suppli
6 x 6 TRUCK				CAMP					. W			
4 x 4 TRUCK				REPAIRS & MAINT.						i i		
PICKUP TRUCK				WALKING		1	1					
MUD MIXER				OTHER		- (
COIL STOVE										1 2 2		
				TOTAL HOURS		11	17					
GENERAL COMMENTS: 3hrs	plan	p Lo	st c	circulation	ma	ate.	rial	(rlso	p	u/	led
to grease roo	els.											
			K									
					i i i i i i i i i i i i i i i i i i i							
MATERIALS USED OR LOST												
QUANTITY			ITEM	& REMARKS							APPRO	VAL
1 Lub Tu	<u>cb</u>											
1 alcomer	120	L.								2 7		
1 pag of	cottona	See	ed.									
1 Rod gr	ease,						*					
	2	/	7								L. L.	
CUSTOMER_	un /	16	in	COMPANY	a	Don	1	Link	Eme			

											-				
	1		(COAT	ES DF	RILLIN ME REPOR	IG, INC.	(We a	e nui	mberg	ONE	11	
CONTRA	ACT NAM	E Bri	s+/.	econe			OB NO 836		/	.0/	1	12/2	1	1	
DATE		une 8	3		DAY				/1	1/5	9/	74	/	/	
HOLE NO.	P-	88-1			AFTE	RNOON		/	1 1	12	3	/	/		
SIZE	NO	-400			NIGH			/	ð/	4	30	/	/		
					74				ON THE WAY	* × ×	* *	W X			
				FROM	то	FEET	OPERATION	DRILL	HOURS	HOURS	HOURS	HOURS			
	CORING			462	584	122	CORING		9	9					
-	OVERBU					10.74.73	OVERBURDEN								
	DRILL						CEMENTING								
	REAMC	ASING					REAMING CASING						Т	EST DEP	THS
	1 1 1 1						TESTING						- 8		
WATER LIN	NES: DIST	ANCE 12	00 F	T. LIFT	300 F	г.	WATER LINES		la.						
MOVING: U	INDEREC	DUIPMENT S	HOW	TRACTOR 8	TRUCK H	DURS	MOVING								
							SETTINGUP/TEAR DOWN						4/		
SUPERVISION MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE															
MOBILIZATION: FROM BASE TO TRUCK UNLOAD POINT DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE															
DEMOBILIZATION: FROM TRUCK LOAD POINT TO BASE MOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE															
DEMOBILIZ	OBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE EMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT														
	OBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE														
UNI	Ţ	HOURS		REN	MARKS		HOLE STABILIZING		1	1					
TRACTOR	e Pag						T. DRIVING		5 10 12 mg 83						
6 x 6 TRUC	K						CAMP								
4 x 4 TRUC	K						REPAIRS & MAINT.								
PICKUPTR	UCK						WALKING		1	1					
MUD MIXE	R	1					OTHER								
COIL STOV	E														
	9						TOTAL HOURS		11	11					
GENERAL	COMMEN	TS: 1hr	0	umpe	ed co	tton	seed don	In	to	r	ega	ni	cic	ala-	tion
			'								V				
												.			
												4,			
MATERIA	LS USED	OR LOST		\		1646									
QUANTIT	Y		ŧ.	1		ITEM	1 & REMARKS							APPRO	VAL
	1 a	leon	er	120	1										
				- American											
			1	7	0/										
	n .	//	1		1//	-			1		1	kn	$I^{x \to \hat{c}}$		
	CUSTOME	R MA	Re	u/	1111	In	COMPANY	d	10	-	1our	Azn	-		

				la sur									*	
		COAT	ES DF	RILLIN ME REPOR	G, INC.	()	We ar	e nur	nber	ONE	1)	
CONTRACT NAME	Bris	tLecon	e M.	nine w	OB NO. 836		/	1	1.	14	/	' /		
	une 9		DAY	7 @			/\	1/1	3/6	3/	/			
HOLE NO. 7-89	3-1			RNOON 🗆		/	1 1/2	2	3	/ /	/ =			
	400		NIGH			/	ð/	4	180.	./	/			
,						/ 6	ON THE WO	* ×		W N				
		FROM	то	FEET	OPERATION	DRILL	HOURS							
CORING		584			CORING									
OVERBUR	DEN				OVERBURDEN						No.			
DRILL CE	MENT				CEMENTING								1115	
REAM CAS	SING				REAMING CASING				1		,	TEST DEPT	THS	
					TESTING						14			
WATER LINES: DISTAL	NCE 1200	FT. LIFT	300 F	т.	WATER LINES									
MOVING: UNDER EQU	IPMENT SHOW	V TRACTOR 8	TRUCK HO	OURS	MOVING									
					SETTINGUP/TEAR DOWN		in.							
					SUPERVISION									
MOBILIZATION: FROM	BASE TO TR	UCK UNLOAD	POINT											
DEMOBILIZATION: FR	EMOBILIZATION: FROM TRUCK LOAD POINT TO BASE OBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE													
IOBILIZATION: FROM TRUCK UNLOAD PT. TO 1st HOLE JEMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT														
EMOBILIZATION: FROM LAST HOLE TO TRUCK LOAD POINT														
	EQUIPMENT DATA													
UNIT	UNIT HOURS REMARKS HOLE STABILIZING													
TRACTOR	UNIT HOURS REMARKS HOLE STABILIZING													
6 x 6 TRUCK					CAMP					4				
4 x 4 TRUCK					REPAIRS & MAINT.									
PICKUP TRUCK					WALKING				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- 1. 30.5			
MUD MIXER					OTHER	11		6			,			
COIL STOVE														
					TOTAL HOURS			1						
GENERAL COMMENTS	C.V	Jood	had	do	ctor's opp	oiu	+ m	Len	+	501	m e	thin	. 0	
		44.	Ruse		CION OPP						7		7	
B. Ducho	1	trib	to	Carso	n City fo	- 1	Sup	20/4		an	al			
ser vice			70	Carso				PH		<u> </u>	<u>u</u>			
MATERIALS USED OF	for the second s													
QUANTITY				ITEM	& REMARKS							APPRO	VAL	
		19 (1)										*		
			4										T.	
*			- 8											
			/	7										
	6/1	1	2//				0		1	1				
CUSTOMER	100	en /	1 to	u'	COMPANY	P	bu	- 1	Ken	ken		2_	_	

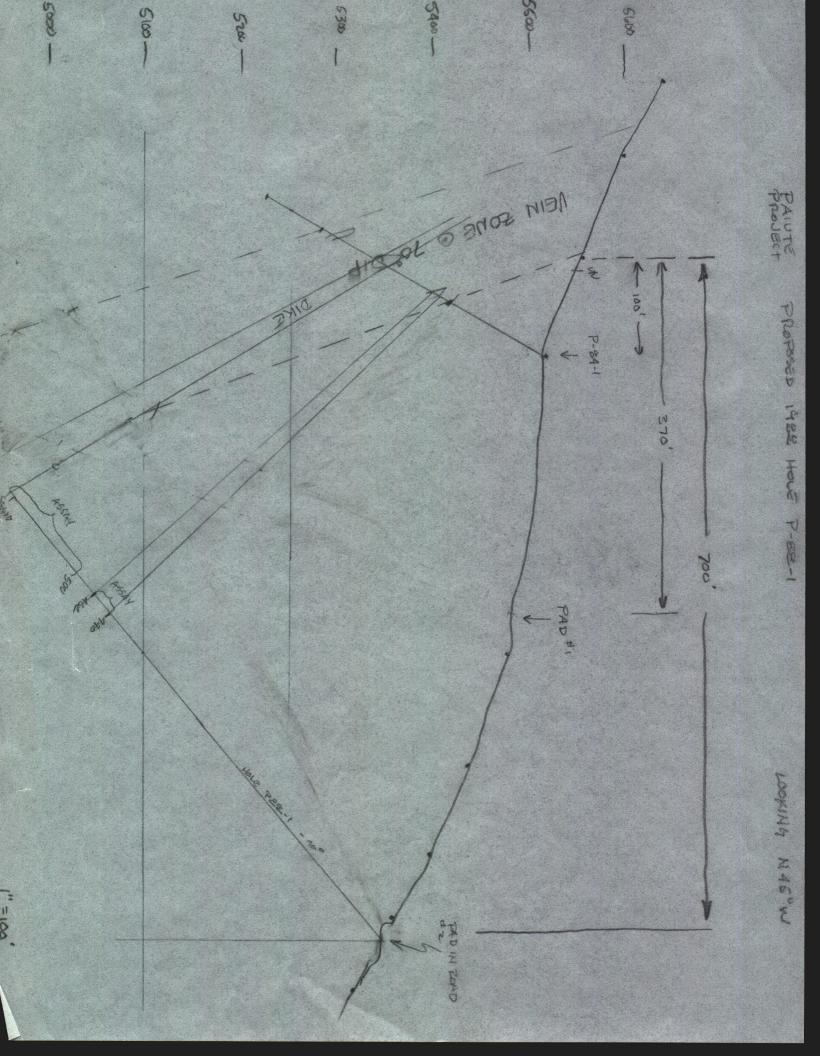
			COAT		RILLIN ME REPOR	IG, INC.	(We a	re nu	mber	ONE	1	
CONTRACT	NAME	Brist	le come			юв No836			/	\/	15	720		~
DATE	Jun		COME	DAY	· 1/2			/.	1	34	40	14	/	
HOLE NO.	P-88	3-1			RNOON 🗆		-	1	13	1	L. Dy	7 -	/	
SIZE NO)	400:		NIGH			/	80/	4	1	19.	/		
				NIO.			/ 6	ON THE T	Jame .	A PARE	* X	ME		
			FROM	то	FEET	OPERATION	DRILL				HOURS			
coi	RING		584	674	90	CORING		3	3	6				
ovi	ERBURDE	EN				OVERBURDEN				w w				
DR	ILL CEME	NT				CEMENTING								
REA	AM CASIN	IG .				REAMING CASING							FEET DE	980
						TESTING							TEST DEF	IMS
WATER LINES:	DISTANC	E /200	FT. LIFT	300 FT		WATER LINES								
MOVING: UNDE	REQUIPM	MENT SHOW	V TRACTOR 8	TRUCK HO	DURS	MOVING								
						SETTINGUP/TEAR DOWN		oraș.						
		*			To Awar	SUPERVISION								
MOBILIZATION	: FROM B	ASE TO TR	UCK UNLOAD	POINT						913				
DEMOBILIZATION	ON: FROM	M TRUCK LO	DAD POINT T	O BASE										
MOBILIZATION	: FROM T	RUCK UNL	OAD PT. TO 1	st HOLE										
DEMOBILIZATIO	ON: FROM	A LAST HOL	E TO TRUCK	LOAD POI	NT							*		a Asarta
		EQUIPMI	ENT DATA						e la composition de la composition della composi					
UNIT	н	IOURS	REN	MARKS		HOLE STABILIZING								
TRACTOR			4			T. DRIVING		Parameter 1						
6 x 6 TRUCK						CAMP								
4 × 4 TRUCK						REPAIRS & MAINT.			4	4				
PICKUP TRUCK						WALKING		1		1				
MUD MIXER		1				OTHER		1						37.74
COIL STOVE														
						TOTAL HOURS		4		11		100		
GENERAL COM	MENTS:	4 hrs	ren	air.	trip	to Carson C	ite		20r	Me	1.1	fu	-1	
Line	and		ector	~ 11	rip	10 (47302 (19			// -		7		
C. Wos	1	A ()		nin+	ment	- in the mor	. 60 1 14	_	0	et	ey	00		
	age		i fr	, , , ,		TR. TR. TR.	A I I	7	7		-7			
MATERIALS US	CONTRACTOR OF STREET	(A)				And the second s						3		
QUANTITY					ITEM	& REMARKS							APPRO	VAL
/	ala	omer	120	4.										
1	Lu		ub.		0	K- 47 CW.	43'							
						, , , , , , ,		,						
						**************************************	100							
			1	0				n _g Hal						
	1	///	6	//				1		; /		1 "		
CUSTO	OMER	Alle	in We	De	7	COMPANY	d	Vor		plan	kn	<u></u>	- 1	_

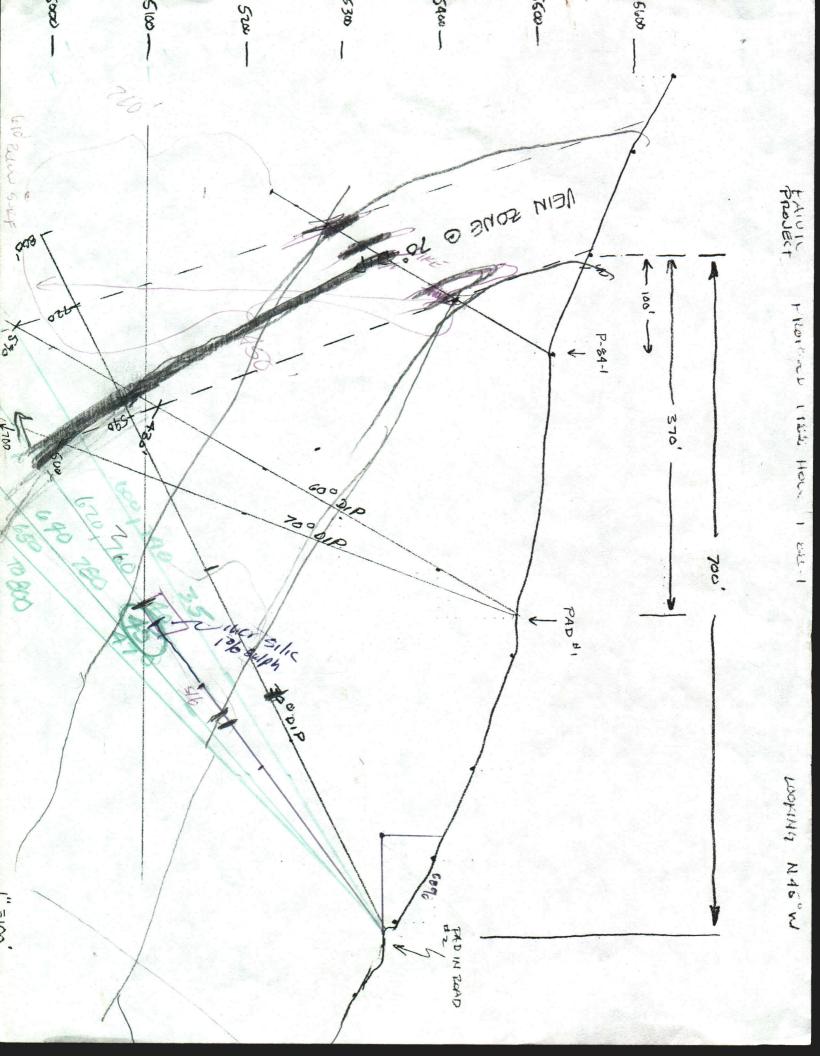
			(COAT	ES DF	RILLIN ME REPOR		(We a		mber		10
CONTRACT	A		3+18	ECONE	MINI	NG J	OB NO. 834		/	/	0/	Sept 1	/	
DAIL	0/11	188			DAY	Ø			/,	0/-	7 (7	/	
	7-88		-		AFT	RNOON 🗆		/	4	13	29/	/ /	/	
SIZE NO	Q-40)°	-		NIGH	іт 🗆		/	ONTINE	Jane .	James .	W X	W.	
				FROM	то	FEET	OPERATION	DRILL				HOURS		
co	RING	*		674	794	120	CORING	1.00	10%	10%				
ov.	ERBUR	DEN					OVERBURDEN							
DR	ILL CEN	MENT					CEMENTING						100	
RE	AM CAS	ING					REAMING CASING						,	TEST DEPTHS
							TESTING							
WATER LINES:	DISTAN	ICE 13	00 F	T. LIFT	300 F	т.	WATER LINES	1						
MOVING: UNDE	REQU	IPMENT S	HOW .	TRACTOR	TRUCK H	DURS	MOVING	स्टबर् अन्त						
							SETTINGUP/TEAR DOWN							
							SUPERVISION	- # 1 To						
MOBILIZATION	: FROM	BASE TO	TRU	CK UNLOA	DPOINT									
DEMOBILIZATI	ON: FR	OM TRUC	K LO	AD POINT T	OBASE									
MOBILIZATION	: FROM	TRUCK	UNLO	AD PT. TO	st HOLE					19 g				
DEMOBILIZATI	ON: FR	OM LAST	HOLE	TO TRUCK	LOAD POI	NT	4 - 4							
		EQU	IPMEN	NT DATA		146								-07
UNIT		HOURS		REI	MARKS		HOLE STABILIZING	k						
TRACTOR						*	T. DRIVING							
6 x 6 TRUCK							CAMP			ur 8				
4 x 4 TRUCK					**		REPAIRS & MAINT.		1/2	1/2				
PICKUP TRUCK					*		WALKING							
MUD MIXER							OTHER							
COIL STOVE		que e						446						
							TOTAL HOURS		11	11			i i i i i i i i i i i i i i i i i i i	
GENERAL COM	MENTS:	REV	ioi	1d Pa	oaff	Value	, short Run	s F	BRO	KEN	Ro	oK	AS	F 25'
							oFskiFt						*	
			1171	<u> </u>		110110								
MATERIALS U	SED OR	LOST							1			+		
QUANTITY	(1)	AIC	MC	ER		ITEM	& REMARKS						24-21	APPROVAL
	•													
							and the same of th			**		ę.		
	J									-		25		
					1								in .	- tr
4			1	y	2//	(.			2				7	1
CUST	OMER	All	Dec	uld	ice		COMPANY		0	~	K	inte	n	

				RILLIN ME REPORT	G, INC.	(We a	re nu	mber	ONE	1	
CONTRACT NAME	Roid	=Cous A	M: wive		OB NO. 836		1	1	0/	Te	1	_/	
DATE OGIOL		ecane 1	DAY	7	OB NO. <u>456</u>		/	/	8	3	/	/	
HOLE NO. P-88			1.74 1 13	RNOON		,	1,4	A	0	γ,	/-/	/	
SIZE NO-1			NIGH			/	30.	4	37	/	/		
200			, Wilding			/ &	ON THE WORK	Wall .	James .	N / N	Sales Contraction of the Contrac		
		FROM '	то	FEET	OPERATION	DRILL				HOURS			
CORING					CORING								
OVERBUI	RDEN				OVERBURDEN							1	
DRILL CE	MENT		Asimir varia		CEMENTING								
REAM CA	SING				REAMING CASING				14.0		TE	ST DEP	THS
					TESTING								
WATER LINES: DISTA	NCE 1200	T. LIFT 3	00 F1	г.	WATER LINES						*		
MOVING: UNDER EQU	JIPMENT SHOW	TRACTOR &	TRUCK HO	DURS	MOVING								
					SETTINGUP/TEAR DOWN							1 Y	
					SUPERVISION								
MOBILIZATION: FRO	M BASE TO TRU	CK UNLOAD	POINT	No.	ANTES OF							1	
DEMOBILIZATION: FI	ROM TRUCK LO	AD POINT TO	O BASE								17		**************************************
MOBILIZATION: FRO	M TRUCK UNLO	AD PT. TO 1	st HOLE										
DEMOBILIZATION: FI	ROM LAST HOLE	TO TRUCK	LOAD POI	NT						1			
	EQUIPME	NT DATA							4000				
UNIT	HOURS	REM	IARKS	*	HOLE STABILIZING								- AN
TRACTOR					T. DRIVING								
6 x 6 TRUCK					CAMP			- 10 V			Den.		
4 x 4 TRUCK					REPAIRS & MAINT								
PICKUP TRUCK					WALKING		1	1					1
MUD MIXER					OTHER	Dief w	10	10					E.
COIL STOVE													
200					TOTAL HOURS		11	11		*	4		
GENERAL COMMENTS	s: TRIDO	not f	õe mi	Slatch	TRIP back in	to	50	RUE	v h	ole	, -		(***)
CAMERA	Peoblems	, not u	vorkin	c ·					1		1000		
100													
MATERIALS USED O	R LOST												
QUANTITY				ITEM	& REMARKS							APPRO	IVAL
The state of the s					# 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1								
	v												
											4		
			/	7					#				
	Mar	,, 5	9/	1		بر	Don	k	Link	men			

	COATES DRILLING, INC. DAILY TIME REPORT NAME Bristlecone Mining JOB NO. 836						We are number ONE							
CONTRACT NAM	OB NO		/,	./	9	0/0	/							
DATE			1	1	9/10	1/2								
HOLE NO.	88-1		AFTE	ERNOON 🗆		/	/ /	63	BY	/ /	/			
SIZE N B		/	ON THE NO.	www.	Jame .	No.	w/							
		FROM	то	FEET	OPERATION	DRILL				HOURS	/			
CORING	G	794			CORING									
OVERB	URDEN				OVERBURDEN	1.00								
DRILL CEMENT					CEMENTING									
REAM CASING					REAMING CASING						т	EST DEPTHS		
					TESTING		3	3			Constitution Ass	490		
WATER LINES: DIS	TANCE 1200	FT. LIFT 3	500 F	т.	WATER LINES									
MOVING: UNDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS					MOVING									
					SETTINGUP/TEAR DOWN		フ	フ						
					SUPERVISION									
MOBILIZATION: FR														
DEMOBILIZATION:	FROM TRUCK LO	AD POINT T	O BASE											
MOBILIZATION: FR								199						
DEMOBILIZATION:	FROM LAST HOL	E TO TRUCK	LOAD POI	NT										
	EQUIPME	NT DATA												
UNIT HOURS		REM	MARKS		HOLE STABILIZING					2 7				
TRACTOR					T. DRIVING									
6 x 6 TRUCK					CAMP									
4 x 4 TRUCK					REPAIRS & MAINT.		*		1000					
PICKUP TRUCK					WALKING		1	1						
MUD MIXER		ye.,			OTHER				7					
COIL STOVE														
					TOTAL HOURS		11	11			42			
GENERAL COMMENTS: SPETTY Sun fest at 790 and 490 Notworking 9												900d.		
Break		/	d t	tar d	THE RESERVE AND ADDRESS OF THE PARTY OF THE						1			
MATERIALS USED OR LOST														
QUANTITY										APPROVAL				
1	R/s # 86145 Huddy fostage 10 to 794 - 784 At.													
NO Huddy Blue 9493/40 footage 400 to 794 = 39											394	181.		
CUSTOMER Melley Thrace COMPANY Don Kinking														
CUSTOM	ED MILLE	11/11	rain	-	COMPANY		0	m	Kin	kn				

		COATI	We are number ONE										
CONTRACT NAME	Bris	He'con	e M	ining y	OB NO. 836		/	./	2/	4	/	/	
DATE	ne 14		DAY	0	/		11	9/11	0/11	7			
HOLE NO. P-8	3-1			RNOON		/	1 4	1	0.1	/	/		
SIZE NO -	400		/	ON THE WO	4/	4	w/	w/					
			/ 6	2	* *	*/ ×	N N N	/					
		FROM	то	FEET	OPERATION	DRILL	HOURS	HOURS	HOURS	HOURS			
CORING					CORING								
OVERBURD	EN				OVERBURDEN								
DRILL CEM				CEMENTING									
REAM CASING				REAMING CASING						TE	ST DE	PTHS	
					TESTING						1		
WATER LINES: DISTAN	WATER LINES			1									
MOVING: UNDER EQUI	MOVING												
	SETTINGUP/TEAR DOWN												
					SUPERVISION								
MOBILIZATION: FROM													
DEMOBILIZATION: FRO	OM TRUCK L	OAD POINT T	TO BASE										
MOBILIZATION: FROM				1 1									
DEMOBILIZATION: FRO			5	5									
	EQUIPM	ENT DATA					182						
UNIT	HOURS	RE	MARKS		HOLE STABILIZING	A Company	3						
TRACTOR					T. DRIVING								
6 x 6 TRUCK	1304				CAMP								
4 x 4 TRUCK					REPAIRS & MAINT.								414
PICKUP TRUCK		1		V	WALKING		1	1					
MUD MIXER					OTHER		2	2	200				
COIL STOVE						-							
					TOTAL HOURS		8	8	10.3834				
GENERAL COMMENTS	261	's Lo	ading	. 00	or cat ope	rat	00						1 1
			/										
						9						114	1.0
MATERIALS USED OF	RLOST											ADD	ROVAL
QUANTITY				ITE	M & REMARKS				1214			APP	HOVAL
		and the second											
												*	
		A	0	1									
,	1//		111	/ (1		1		U.	19	#		
CUSTOMER	Alle	elsen.	Mi	cen	COMPAN	IY _	No	n.	Jun	En	Zerranne .		





Hole 1 225° -60°

Angust 29th 146'
203 & 3 shifts
335 &

Hole 1B 160° -60°

Angust 30 316'

August 31 380

Corporation for 181es

CAT SKINNER GEORGE ON BRUCE MULL 575-2278

BIG MOUTH CREEK \$7500 /m

1,000 HOPE 328' VERT TO HZO 32% GRADE
1049' TOTAL LENGTH
70° DIP

