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WILLOW CREEK

PLACER

EVALUATION

By

Wade W. Pearson
1983

INTRODUCTION

The property, known as the Willow Creek Placer, is FEE land, located 36 miles southwest of Winnemucca, Nevada. In the east range of the Humboldt Mountains, Township 31 North, Range 36 East in Pershing County, and includes the following:

NE $\frac{1}{2}$ of SE $\frac{1}{2}$ Sec 11	surface and minerals	40 acres
N $\frac{1}{2}$ of NW $\frac{1}{2}$ Sec 12	" "	80 acres
SW $\frac{1}{2}$ of NW $\frac{1}{2}$ Sec 12	" "	40 acres
W $\frac{1}{2}$ of SW $\frac{1}{2}$ Sec 12	" "	80 acres
W $\frac{1}{2}$ of NE $\frac{1}{2}$ Sec 2	minerals in the Thacker placer claim #1	80 acres
S $\frac{1}{2}$ of SW $\frac{1}{2}$ Sec 35, T32N, R36E,	minerals in Thacker placer claim #2	80 acres
E $\frac{1}{2}$ of NE $\frac{1}{2}$ of NW $\frac{1}{2}$ of Sec 2 T31N, R36E,	minerals in the Thacker placer claim #3	<u>20 acres</u>
TOTAL ACREAGE-----		420 acres

In addition, appropriative water rights to the use of Willow Creek for the amount of 2 C.F.S. Willow Creek has been traditionally productive creek flowing year round, with seldom dry years. An abundant water year has prevailed for the last three years and the creek is presently flowing four to ten times the above appropriated amount.

PHYSICAL DESCRIPTION

Semi arid high elevation (4,500 feet Mean Sea Level). Desert land with surrounding mountain peaks to 9,000 ft MSL. Average summer temperature range is 60 F to 100 F. Average winter temperature range is -10 F to 37 F. Working season with above 30 degrees temperature is from February 15th to November 15th, for a total of 9 months. Vegetation consists primarily of scrub bushes, mainly sagebrush, with interspersed juniper and pinyon trees.

Other than one company, Blanco Oil, in the 1960's, no company has approached the operation with any careful, well thought out method and developed the property in the manner appealing to justify or warrant mining. Blanco's history is of excellent recovery with well guarded results. It suffices to say that they did extremely well in their (hit-and-run) method.

Common knowledge is of quantities of large 1 and 2 ounce gold nuggets trading hands in the nearby towns. Several pockets were hit, including one containing some 500 ounces of gold and several containing 150 oz. The largest nugget was over 40 oz. and is well documented. The area worked by Blanco Oil is the upper 3/4 mile of the adjoining Wadley Canyon. This canyon empties into the Willow Creek on this lease. It has been tested in spots and denotes a very good prospect for accumulated gold.

Perhaps the best district authorities are Jim Calder D.D.S., of Winnemucca, and family members of Calder Mining Company. In addition, Howard Harris, a metallurgist and assayer with business offices in Winnemucca is also quite knowledgeable, having worked the area.

Jim Calder has been actively involved in the Willow Creek District for over 40 years with his father. His father recently passed away, but until then, they were perhaps the most diligent group to work the claims. His experience entails working on the upper Wadley claims and some exploration of the Thacker leases. The work on the Wadley involved primarily the placer gravels, and some work on the hard-rock areas. The amount and size of the placer gold he recovered is very impressive. The largest nugget is over 14 ounces. The majority of the samples are in excess of one troy ounce. He denotes great quantities of gold removed over the years, but bad record keeping and theft between operators makes it difficult to give accurate figures.

The system was almost finished when "political" problems and lack of main channel reserves (already mined out) made continuing with them a frustration.

The testing I performed in the Wadley area placers substantiated \$12 plus per yard gravels, but the yardage run revealed a higher rate of recovery: some \$20 per yard. Romac is currently attempting to operate.

The work I performed on the Thacker Lease consisted of reworking several prior trenching areas, and also a two week period exposing and verifying the pay channel. I cut three small adits into the bank running east/west perpendicular to the stream on bedrock, and ran the test yardage through a 2" surface dredge. The figures I can substantiate are above \$25 per yard but I still needed to get east approximately 20 feet to examine and test the gravels Mr. Harris uncovered. I exposed a mining width of over 40 feet and the evidence of the main channel-being to the east 25 feet enlarges the width to well over 60 feet. Historically, the area below where I'm presently mining indicates a higher \$40 per yard figure.

Work done by a consultant to Golden Age Minerals, Ken McGriffin- a geologist, is interesting in that he found fairly good values almost 150 feet from the main channel to the west, and 6 feet above bedrock. If this proves to be reliable, then the economic mining width may be over 300 feet for over a mile and a half in distance.

The general opinion, based on information so far collected, is that a large collection area in the confluence of the two creeks exists, and it should yield substantial gold values. It should begin to up-grade approximately 300 feet ahead of the present work. I feel it should hold up to \$60 per yard. Total mining yards should exceed 50,000 on just the upper section. No substantiated work has been performed on the lower

FUTURE DEVELOPMENT

The amount of potentially profitable gold gravels is so significant that a large scale operation such as a small bucket-line dredge would not be unjustified in consideration.

The "hardrock" or open-pit type gold is extremely likely in large scale. The area is an extensive area of auriferous pockets, fissures and dikes. Detailed exploration and development is definitely warranted. I have personally explored a couple of likely prospect pits and a promising intrusive on the Thacker Lease; I recovered enough gold to warrant further development. Many highly regarded geologists, such as Ralph Roberts, are investigating the district. The physical evidence and the dendritic nature of much of the gold, and the history of "Gory holes" is overwhelming. I believe exploration and development is a must with competent authorities.

The testing and results reported apply only to the samples or submissions tested and in no event shall Canyonlands 21st Century Corporation be liable for any damages, consequential, indirect, special, or otherwise, by virtue of its tests and the reported results thereof.



CANYONLANDS 21ST. CENTURY CORP.

P. O. Box 2100 • BLANDING, UTAH 84511 • PHONE: (801) 876-2211

EMISSION SPECTROGRAPH TRACE ELEMENT ANALYSIS-68 ELEMENTS

INSTRUMENT: Jarrell-Ash Mark IV 3.4 Meter Ebert Spectrograph, with Constant Current DC Arc Source, Automatic Racking

PLATE #	REF #	Ag	Al	Au	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	*Ga	Gd	Ge	Hf	Hg	Ho	In	Ir	K	La	Li	Lu	Mg	Mn	Mo	Na
9554	1588	<0.1	1.0%	2.0	ND	2.0%	0.5%	ND	ND	0.6%	ND	300	50	200	200	3.0	100	300	ND	40%	/	50	ND	8.0	ND	1.0	2.0	ND	100	100	ND	30	200	0.2%	4.0	5.0
	(Orange)																																			
	1589	<0.1	200	1.0	<1.0	0.5%	ND	ND	ND	0.2%	ND	50	10	300	30	10	200	100	60	30%	/	60	ND	30	ND	100	15	ND	700	ND	ND	70	300	0.1%	4.0	5.0
	(Tagged, Black)																																			
DETECTION LIMITS		002	.1	.3	.07	1.0	.1	.06	.0	.03	.5	.0	.4	.2	.3	005	5.0	.5	5.0	.1	.06	3.0	.8	1.0	0.1	5.0	.1	5.0	.5	1.0	1.0	5.0	.02	.6	2.0	.3
PLATE #	REF #	Nb	Nd	Ni	Os	P	Pb	Pd	Pm	Pr	Pt	Rb	Rh	Ru	Sb	Sc	Si	Sm	Sn	Sr	Ta	Tb	Tc	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr		
9554	1588	ND	ND	ND	ND	0.2%	30	60	ND	ND	ND	300	30	ND	ND	60	30%	50	20	60	ND	150	ND	100	3.0%	80	50	150	200	30	100	70	5.0	30		
	(Orange)																																			
	1589	ND	ND	ND	ND	30	20	60	ND	100	ND	100	20	50	ND	30	2%	ND	10	50	ND	60	ND	100	0.8%	40	50	ND	2%	30	50	30	15	60		
	(Tagged, Black)																																			
DETECTION LIMITS		2.0	5.0	.2	3.0	3.0	0.2	2.0	10.0	0.5	0.5	1.0	1.0	1.0	1.0	5.0	0.0	5.0	.7	.03	3.0	.5	2.0	2.0	.2	.4	1.0	6.0	.5	2.0	.5	.3	.3	1.0		

REMARKS: Results in parts per million unless otherwise indicated ND - Not Detected I. - Detected but below level of determination

* Ga cannot be determined spectrographically because of environmental interference.

ANALYST: SP/RSK JOB #: CUSTOMER: Wilbur Winter

6/13/84

42

43

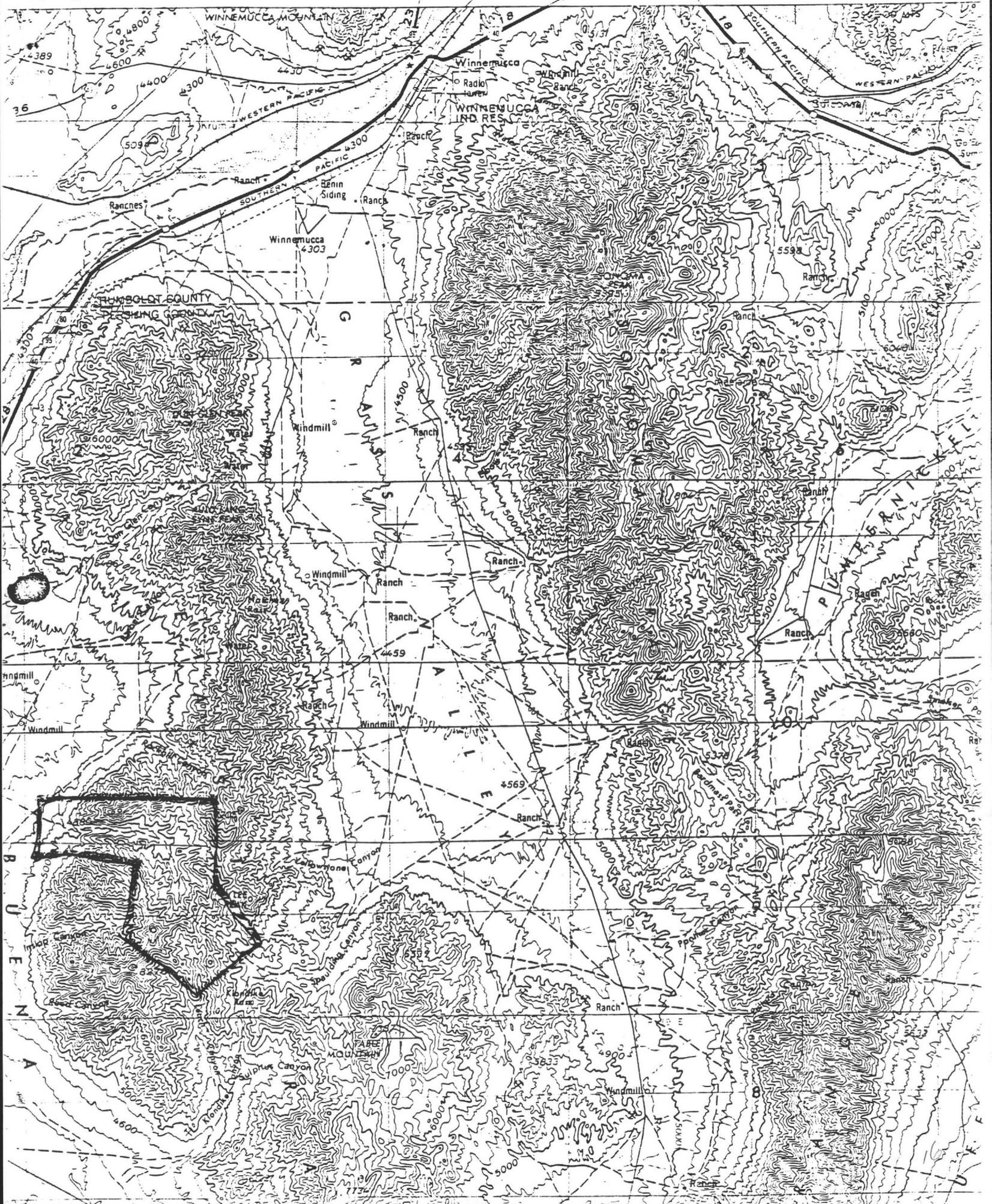
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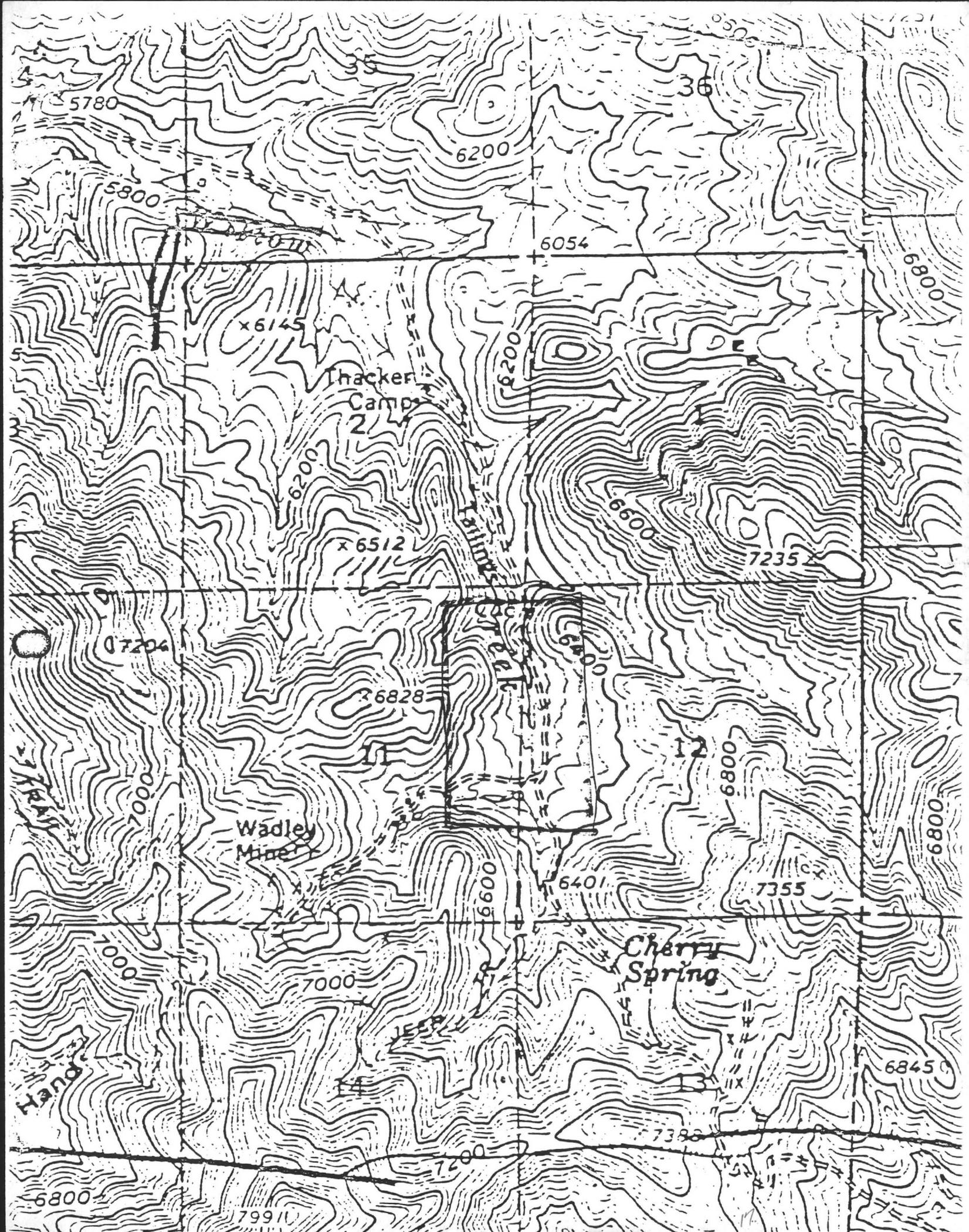
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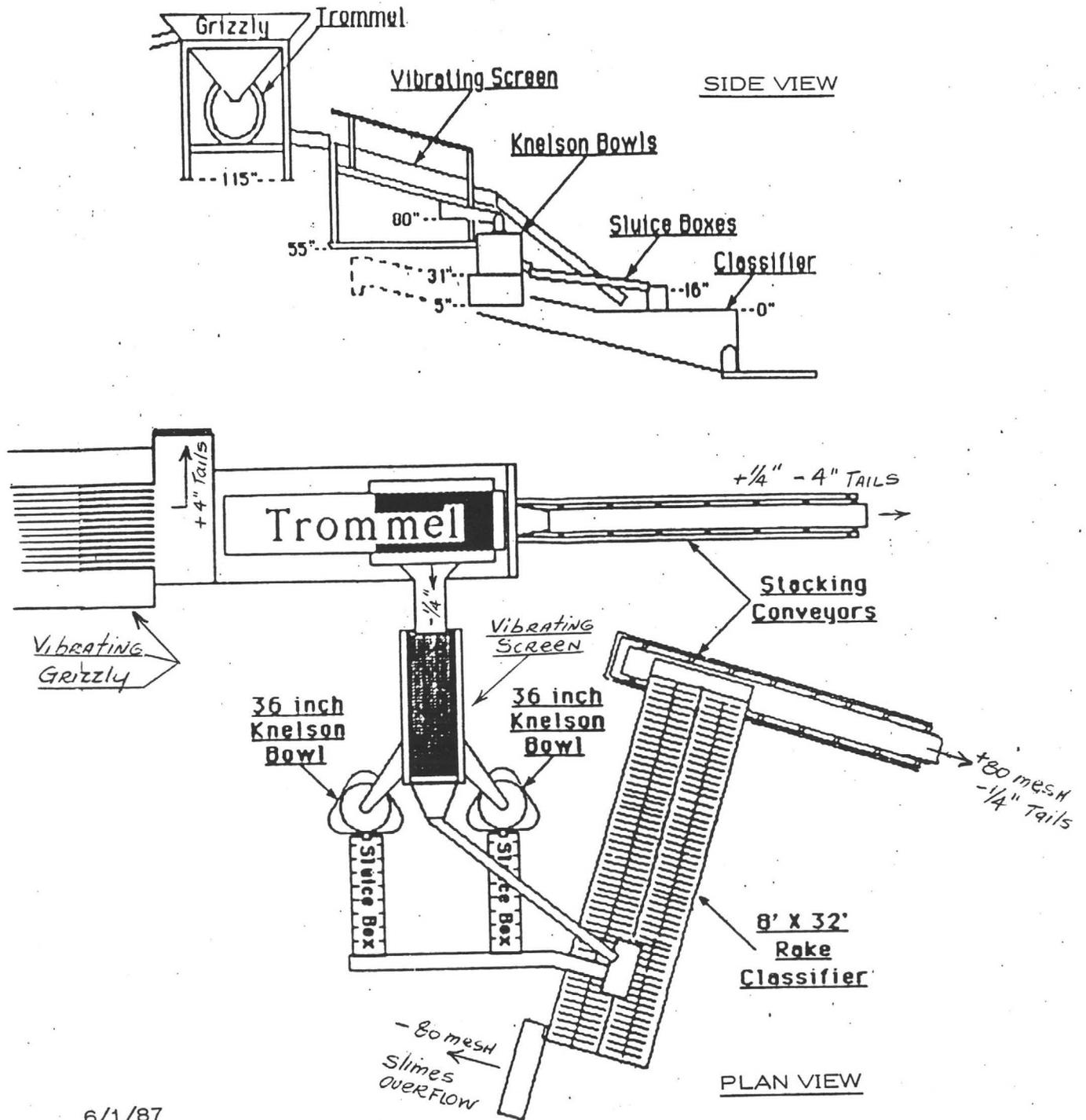


PRODUCTION EQUIPMENT

LA PAZ MINING, INC.

1301 EAST FT. LOWELL ROAD
TUCSON, ARIZONA 85719
PHONE: AREA CODE 602 325-1514

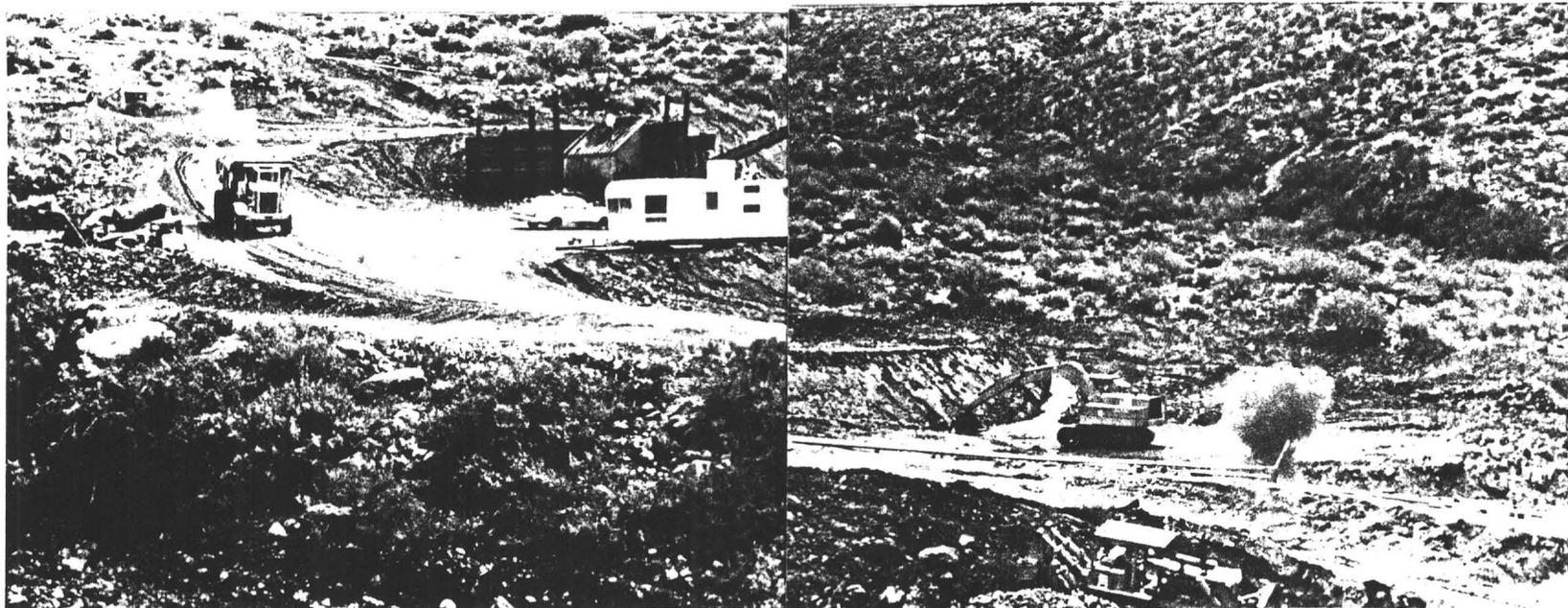
GOLD PROCESSING PLANT



6/1/87

THP NEVADA PROJECT
 MAJOR COMPONENTS PRODUCTION EQUIPMENT LIST

1.	Kushmaul 3 Compartment Steel Tank	007
2.	Knelson Hydro Concentrator Bowl, 30"	009
3.	" " " " with motor & shroud	010
4.	" " " ", 7-1/2"	012
5.	Ford End Dump 10 Wheel Diesel Truck	022
6.	Fruehauf Storage Van (Two)	023, 024
7.	Converter Dolly	025
8.	Cat Front End Loader 966-C, 5 Yd.	029
9.	International Loader 530-A	030
10.	Cat D-8 Crawler with 22M Ripper	031
11.	Diesel Generator 20KW	035
12.	" " Cummins 100KW	036
13.	" Deutz Gorman Rupp Pump	037
14.	Goldfield Trommel, Trailer-Mounted with Vibrating Grizzly, Shakerscreens, 2 Conveyors, 4 Sluice Boxes, Pneumatic Nugget Trap and Pneumatic Levelers	038
14a.	Vega House Trailer	
15.	Milton Roy Pump & Back Pressure Valve	049a
16.	Dorr-Oliver Rake Classifier	049
17.	Miller Welder, Gas Powered	055
18.	Chev. Pickup 4x4 Truck, 1978	056
19.	Two - Willing Water Flow Meters	058
20.	Chain Saw, 20"	026
21.	Hand Disc Grinder	027
22.	B&D 3/4" Electric Impact Wrench	028
23.	Rotating Filter Screen	070
24.	Vacuum Pump on Trailer w/Engine Fabricated by La Paz & Harry Kieth	071
25.	Misc. Hand Tools	
26.	Misc. Laboratory Supplies & Equipment	
27.	Misc. 6" and 8" Pipe	
28.	Misc. Electric Cable	
29.	Misc. Surveyor Supplies	



LA PAZ MINING, INC.

Upper Weaver Project
August 1986

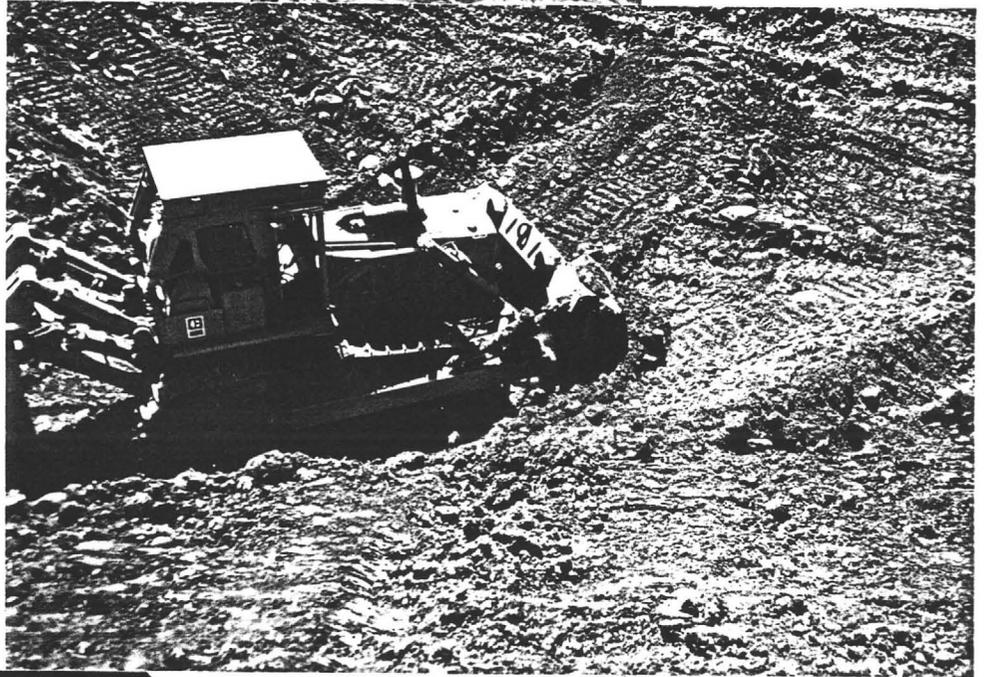
Showing: Ore Truck, Trommel, Dozer, Backhoe,
Fuel Truck, and Field Office

TYPICAL PLACER OPERATION



2
International
Front end Loader
Item 9 on Equip.
List attached.

Cat D-8 Dozer
with ripper
Item 10 on
Equip. list
attached.



3
Goldfield Trommel
with vibrating grizzly
Item 14 on Equip.
attached.

Production Equipment



In the distance Goldfield Trommel and vibrating Grizzly & Conveyor. Item 14 on Equip. List. In operating position.

D-8 Dozer in center of picture. Item 10 on Equip. List. Dozer is constructing a water pond.



International Ft. End Loader, Item 9.

Vega Trailer, Item 14a.

EXPLORATION EQUIPMENT

EXPLORATION EQUIPMENT
FOR DC & SG NEVADA PROJECTS

1.	Knelson Hydro Concentrator Bowl, 7-1/2"	004
2.	Kushmaul Hopper w/Clam Gate	007a
3.	Kushmaul 4" Gravel Grizzly	007b
4.	Kushmaul Conveyor Electric Motor	007c
5.	Kushmaul Trommel Electric Dr. Motor & Gearbox	007d
6.	Kushmaul Sump Pump (Electric) NK-15	007e
7.	Kushmaul "Z" Electronics Console	007f
8.	Kushmaul Tools	008
9.	Mainland Machinery Blue Goose Trommel, Trailer-mounted w/Pump	002
10.	Simplex Rake Classifier	005
11.	Classifier Electric Motor	006
12.	Ashton 18' Conveyor	053
13.	Variable Speed Feeder Belt with Motor	065
14.	20KW Detroit Diesel Generator, Trailer-Mounted with Izuzu Motor	069

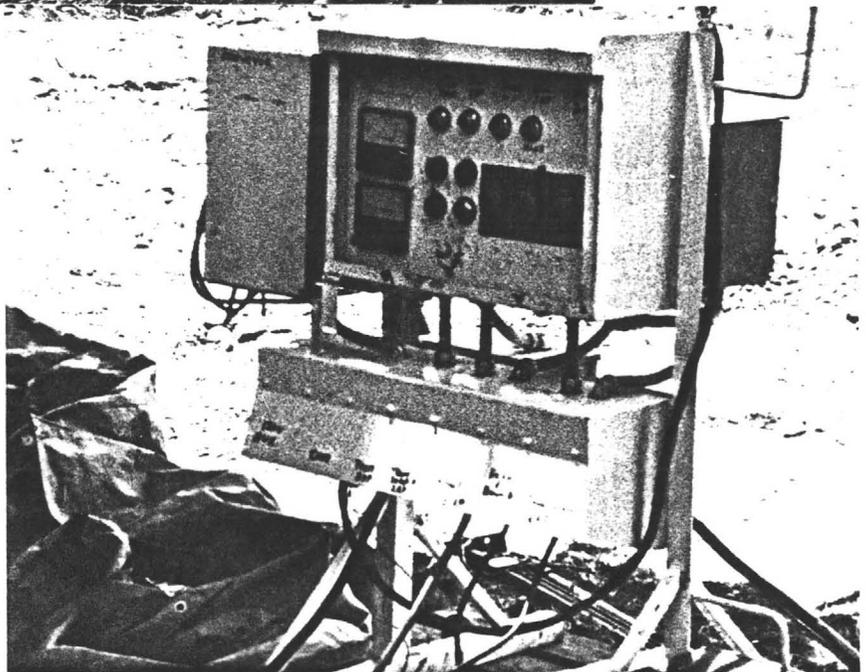
EXPLORATION
EQUIPMENT

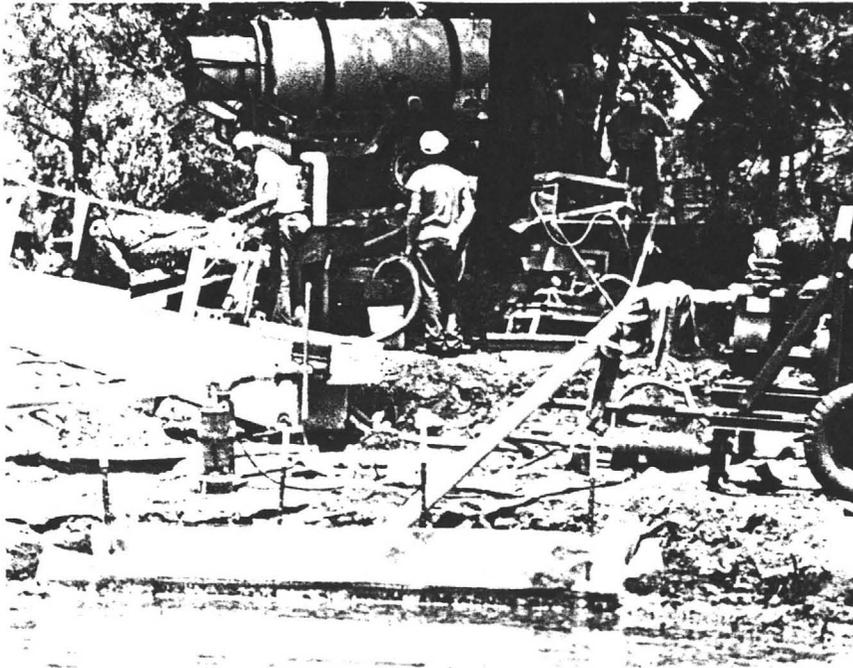
From lt. to rt.
Kushmaul Hopper,
Conveyor,
Blue Goose Trommel
Items 2, 12, 9 on
Expl. List.



Expl. Equip.
From lt. to rt.
Classifier,
Knelson Bowl,
Conveyor,
Hopper,
Loader.
Items 10, 1, 12, 2 on
Expl. List
Loader is on Product-
ion List item 9.

Expl. Equip.
Console Control Panel
Item 7 .on Expl. List
Attached.



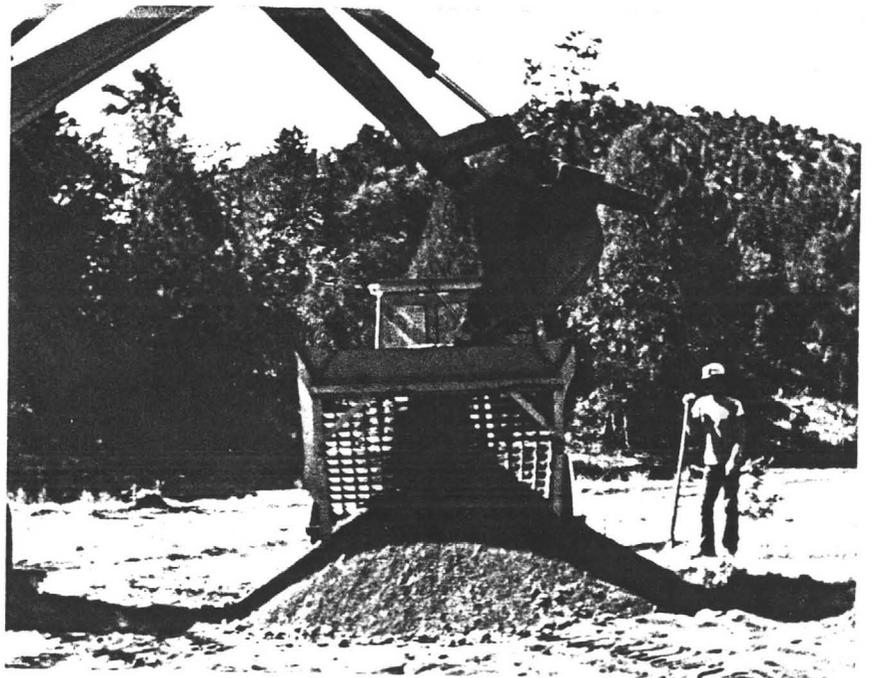


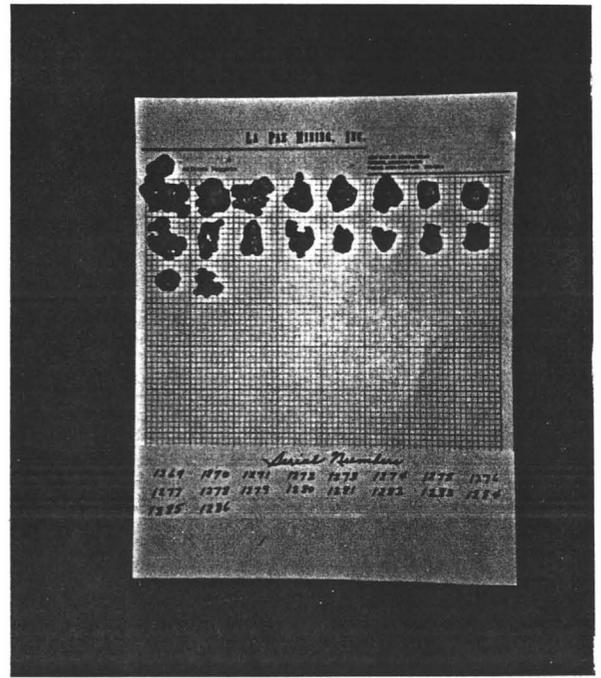
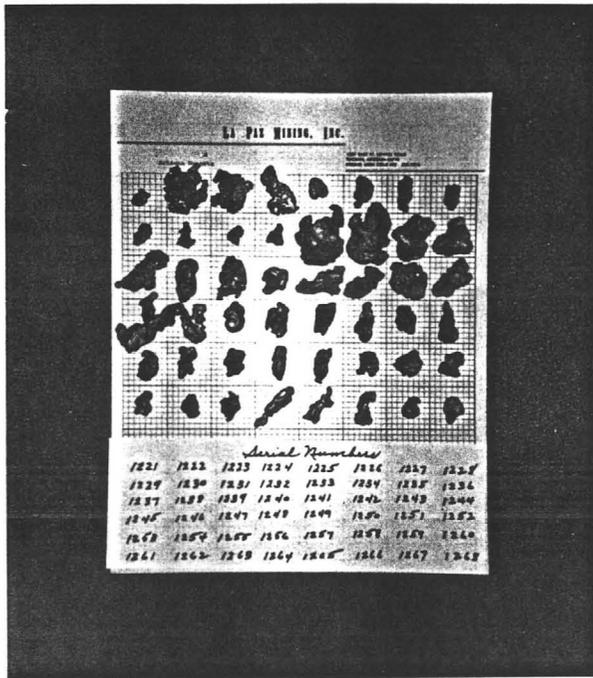
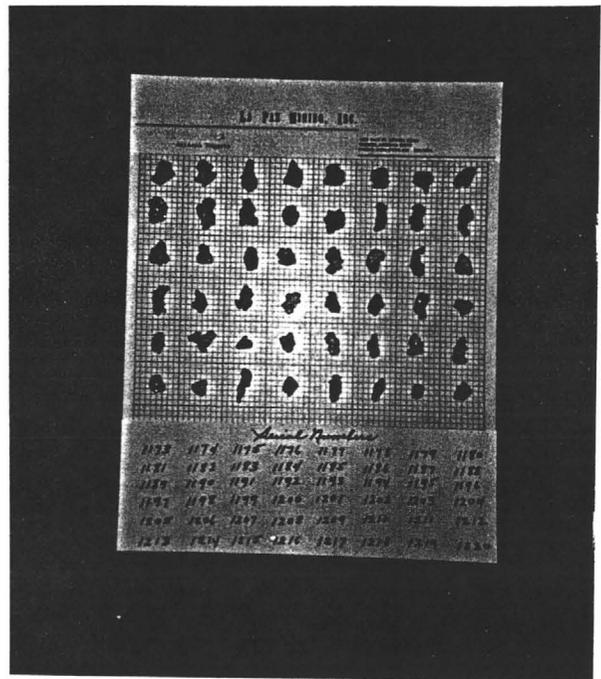
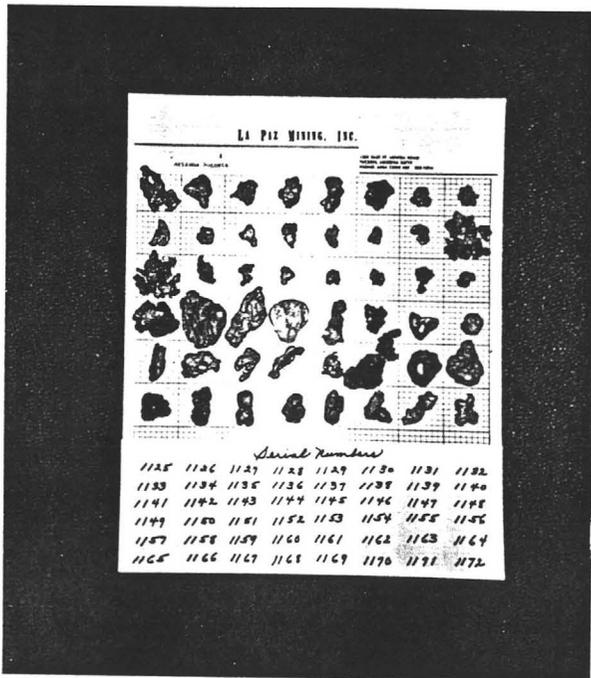
Expl. Equip.

Lt. to Rt.
Sump pump item 6
Classifier item 10
Blue Goose Trommel item 9
Knelson Bowl item 1

Expl. Equip.

4" Gravel Grizzly with a
measured sample for testing





GOLD NUGGETS

A partial representation of our present inventory of over 800 nuggets, which vary in weight from over 2 oz. each down to 0.2 oz. The size of an individual nugget can be determined here by observing and comparing the nugget to the large square (1"x1") on the graph paper under each nugget.