DRILLERS FIELD LOG

Name of Property. Potosi Place	rs.
Location. Pony Gulch, Beaver Mi	ning District
Line No	Hole No
Depth (overburden) 23. feet	Depth (Bed Rock). 23.16.11
Value per Cu. Yd. 0.31 cents.	Gold @.\$3100per ounce

EXPLANATION

Column 1 (Time)

The first entry is the time of day that drilling started. The following entries in this Column are the time of day at each pumping.

Column 4 (Drive)

The pipe is driven into the ground and the depth of drive is recorded in this Column. The first entry shows the depth the pipe is driven before any pumping is done.

Although this is the first operation it is recorded in Column 4 so as to leave space for the time and depth records in the first two Columns. Having these values at the left of the page assists in future reference work when locating the corresponding values, colors, and formations for the various depths.

Column 2 (Pipe)

This Column gives the depth of the cutting edge of the drive shoe. The last item in this Column will be the total depth drilled.

Column 3 (Pumping)

The depth of pumping is shown in this Column. Care must be taken to see that pumping is not continued within 2 inches of the lower edge of the drive shoe until bed rock has been reached.

Column 5 (Core Before Pumping)

The core before pumping is the depth of the core forced into the pipe. This depth is the distance from the top of the core to the bottom of the drive shoe.

Column 6 (Core After Pumping)

The depth of the remaining core or plug left in the pipe is recorded in this Column. This plug is usually from 2 to 4 inches.

★Column 7 (Core Volume by Pipe Measurement)

This volume is represented by a cylinder the diameter of which is the inside diameter of the pipe and the length is the depth of core removed. The depth of core removed for each

Page late Date Proces

drive is the depth of core before pumping less the depth of core after pumping.

(Inside diameter of pipe)² x π x length of core pumped out of pipe

4 x 1,728

Note: Pipe diameter and length of core expressed in inches. Volume of core will be expressed in cubic feet.

★ Column 8 (Core Volume by Bucket Measurement)

After the pumpings are run out of the dump box into the volume bucket, they are measured. These measurements are recorded in this Column.

Column 9 (Theoretical Volume)

This is the volume represented by a cylinder, the diameter of which is the outside diameter of the drive shoe and the length is the depth of drive.

(Outside dia. Drive Shoe)² x π x depth of drive $4 \times 1,728$

Note: Diameter of drive shoe and depth expressed in inches. Core Volume will be expressed in cubic feet.

Column 10 (Number of Colors)

The sizes and number of gold colors are recorded in this Column. The panner classifies the gold in the 1, 2, and 3 colors. No. 3 is the finest and consists of all particles weighing less than 1 Mg. No. 2 is gold consisting of all particles weighing between 1 Mg. and 4 Mg., while No. 1 gold is any particle weighing over 4 Mg.

Column 11 (Estimated Weight)

This Column gives a record of the estimated weight of gold. This, however, is used only as a check, although it is surprising how accurate an experienced panner can estimate the values after he has worked for some time with gold of the same character.

Column 12 (Formation)

A record of the formation of the ground is recorded in this Column.

★ The volume by pipe measurement and the volume by bucket measurement are used in checking irregular holes.

1980年20年20月20日本年 1000年20日 100日 100日

DRILLERS

NAME OF PROPERTY	Potosi Placers
	, 9
LINE No.	HOLE No.

TIME DEPTH OF				- 1				COR	E		-	
OF ···	PIF	E	PUM	PING	DF	RIVE	BEF	ORE	PUM	TER IPING	VOLUME PipeMeasuremen π(pipedia.) ²	
PUMPING	Feet	Inches	Feet	Inches	Feet	Inches	Feet	Inches	Feet	Inches	PipeMeasuremen T(pipedia.) ² Ax1728 Dph. = Depth of Core for Drive	
5:10	6	0	3	9	6	0	4	-/	0	4	·····	
· · · · · · ·	8	0	2	0	2	0	2	2	0	2	>	
	10	6	_/	10	2	6	2	0	0	2)		
Sept 8	12	1	0	3	1	1	0	6	0	3		
	13	7	0	10	/_	6	0	10	0.	0		
	15	2	0	5	/_	7	0	9	0	4		
	17	5	0	7	2	3	0	9	. O	2		
	19	2	/	0		9		0	0	0	·······/···	
	21	0	0	9	/	10	/	0	0	3		
	22	6		0		6	/-	2	0	2		
10.20	23	9		6	/_	3		8	0	2		-
10:30	24	6	0	7	0	9	/	0	0			
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									77			
11:45	N	love	1	4	401	0 7	+ /	0				
1	4											
							•••••					

DIAMETER OF DRIVE SHOE 54	DEPTH
THEORETICAL VOLUME	Soil
MEASURED VOLUME	Gravel
WEIGHT OF GOLD (Mgs.)	Bed Rock 23-6
FINENESS OF GOLD	
CONSTANT USED	Water Level 110
VALUE PER CUBIC YARD (Cents) 0.3/	Pay in Bed Rock Mone

FIELD LOG

C, KIRK HILLMAN COMPANY FORM SEATTLE, WASH, U.S.A.

Measured The by π.	VOLUME Theoretical π, D.2x Depth		Number of COLOF		ESTIMATED WEIGHT	FORMATION
VOLUME	4 x 1728 D.=Dia.of Drive Short	1	2	3	lawisti ka	
411						/
2						Soil-6-5
······						n " "
7						G-S Boulder-G-S
·····						Boulder - G-S
······						Wash -G-Si
4						
3						11 11 11
				/		" -G-S-Cl
/				-/		10-6-8
2						10-8-BLR
						Bedrock-Cl
						Decomposed Si
					0.1	· care frame
					Pyrire	cone trom
					ground	up pace
					Il Out	
					l	
	1	IME	LOG			
ABBREVIATIO	Drilling				. 8.	. H.oox
S. Sand 1h. 1 G. Gravel F. F	rozen Pulling			,	- Wik	Driller
CI. Clay M. I	Much Maying	hr	-			
B. Boulders Sm. S St. Sticky T. 1	Calliana				2	WEF EBBLEY Panner

Convenient Equivalents

1 Troy Ounce 480 Grains 1 Troy Ounce 20 Pennyweig 1 Troy Ounce 31,104 Milligrams 1 Grain 64.8 Milligrams	ht 1 Cu. Yd
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Drive Pipe and Drive Shoe Measurements

	4" Drive Pipe Inside dia. 3.826"	5¼" Drive Shoe Cutting Edge dia. 5¼"
Cross-sectional Area	.079835 Cu. Ft.	21.6475 Sq. In. 259.7700 Cu. In. .1503299 Cu. Ft. .00556777 Cu. Yds.

Theoretical Rise in 4" Drive Pipe using a 51/4" Drive Shoe driven to a depth of one foot-22.6"

	5" Drive Pipe Inside dia, 4.813"	6½" Drive Shoe Cutting Edge dia. 6½"
Cross-sectional Area		33.1832 Sq. In. 398.1978 Cu. In. .2304585 Cu. Ft. .0085355 Cu. Yds.

Theoretical Rise in 5" Drive Pipe using a 61/2" Drive Shoe driven to a depth of one foot—21.9"

	6" Drive Pipe Inside dia. 5.761"	7½" Drive Shoe Cutting Edge dia. 7½"
Cross-sectional Area		44.1788 Sq. In. 530.1450 Cu. In. .3067968 Cu. Ft. .0113628 Cu. Yds.

Theoretical Rise in 6" Drive Pipe using a 7½" Drive Shoe driven to a depth of one foot—20.3". Theoretical Rise in 6" Drive Pipe using a 7½" Drive Shoe (Using Keystone Constant)—17.9"

Comparison of Gold Values per Ounce, Grain, Milligram

50.00 49.00 48.00	10.4166 10.2083 10.0000 9.7916	.1607 .1575 .1543	30.00 29.00	6.2499 6.0417	.0965
48.00	10.0000		29.00	6 0417	0022
48.00	10.0000	.1543		U. UTL	. 0933
			28.00	5.8332	.0901
47.00		.1511	27.00	5.6250	. 0868
46.00	9.5833	.1479	26.00	5.4167	. 0836
45.00	9.3750	.1447	25.00	5.2083	.0804
44.00	9.1666	.1415	24.00	5.0000	.0772
43.00	8.9583	.1382	23.00	4.7916	.0740
42.00	8.7500	. 1350	22.00	4.5833	.0707
41.00	8.5416	.1318	21.00	4.3750	.0675
40.00	8.3333	.1286	20.00	4,1666	. 0643
39.00	8.1250	.1254	19.00	3.9583	.0611
38.00	7.9166	.1222	18.00	3.7500	.0579
37.00	7.7083	.1190	17.00	3.5416	.0547
36.00	7.5000	.1157	16.00	3.3333	.0514
35.00	7.2916	.1125	15.00	3.1250	.0482
34.00	7.0832	.1093	14.00	2.9166	.0450
33.00	6.8750	.1061	13.00	2.7083	.0418
32.00	6.6666	.1029	12.00	2.5000	.0386
31.00	6.4583	.0997			** ** ** ** ** ** ** **