

**CS-4000 Unit #714 SLM Spot Check
13 January 2004
Gold Quarry Mine Site, Carlin, Nevada**

Site Description

This spot check SLM survey was conducted between 1930 and 2030 on 13 January 2004 at the Newmont Gold Quarry Mine. This active gold mine is located in the northern Nevada town of Carlin. It is a high desert area with rocky soil and scrub brush. The altitude is approximately 5,000 feet above sea level. The site was in the mountainous terrain outside of the town and inside of an inactive mine pit. The drill rig was on a pad area with a steep highwall directly to the front of the drill, a slight embankment to the right and no other additional barriers within 200 feet (Figure 1). There was no additional heavy equipment that could have contributed to noise levels in the survey.

Environmental Conditions

During the entire survey there were no winds. The temperature was 15° F during the course of the survey with very low humidity. The background noise level taken with the SLM before drilling operations commenced was less than 75.0 dBA.

Site Equipment

The drill surveyed was unit #714 based out of Chandler, Arizona. The main engine of the drill rig is a deck mounted, six cylinder, 3208 Caterpillar diesel. Associated equipment included with the rig is a Multiquip Whisperwatt 7000 light plant powered by a two-cylinder diesel engine which was running at the time of the survey. The rig is mounted on a Peterbuilt carrier. Ancillary equipment included a Navistar 8200 water truck, mud trailer, pipe trailer and a Ford F-250 driller's pick-up truck.

Technical Approach

Layne Christensen Safety Coordinator, Jim Wright, conducted this survey. During the survey, the drill crew was performing routine drilling operations. This survey would constitute an "average" time frame of drilling on a CS 4000 core drill rig.

Instantaneous Sound Level Measurement Results

Instantaneous SLM results for the CS-4000 drill rig at Gold Quarry showed noise levels above 85 dBA up to thirty feet (35') away from the rig during drilling operations. These levels were dependent upon the direction of the rig. The front showed the lowest levels beginning at ~ 85 dBA. The noise levels at the left and right sides of the drill produced levels of ~ 103 dBA due to the close proximity of the engine. The rear line extended to 35 feet due to the positioning of the light plant.

Conclusion

The 85 dBA line and instantaneous SLM reading taken during this survey are within the other historical surveys conducted.

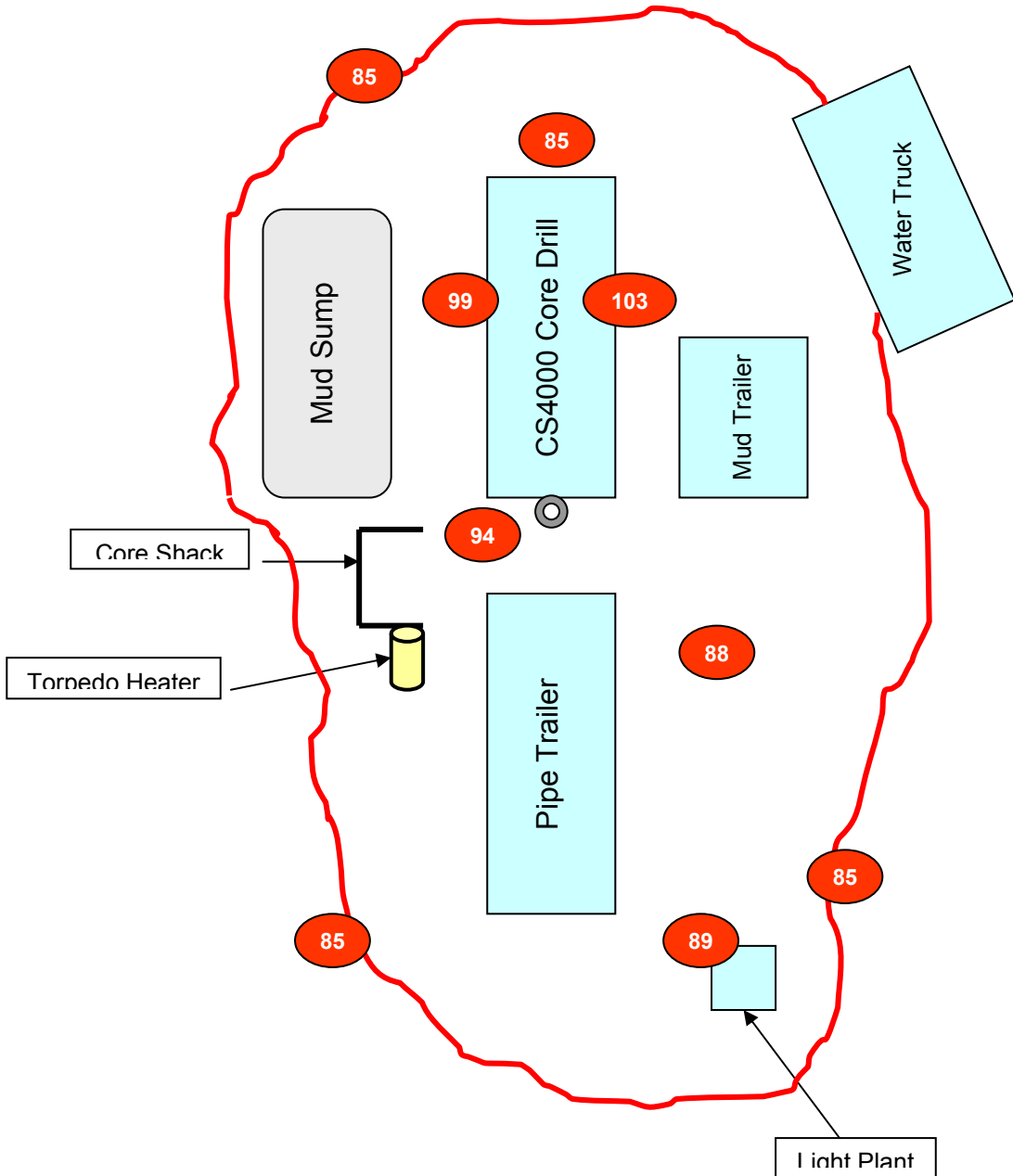
Equipment List	
Instrument	Serial Number
Quest Model 215 Sound Level Meter	M4050078
Quest CA12 Acoustical Calibrator	6100450

Calibration		
Serial Number	Pre-Cal	Post-Cal
M4050078	110 dBA @ 1,000 Hz	110 dBA @ 1,000 Hz

Instantaneous SLM Readings				
Distance from Rig in feet	SLM Readings in dBA from Position			
	Front	Rear	Left	Right
0	82.0	94.0	99.0	103.0
5	83.0	93.0	97.0	100.0
10	86.0	91.0	94.0	98.0
15	86.0	88.0	92.0	96.0
20	85.0	86.0	89.0	93.0
25	-	85.0	87.0	90.0
30	-	85.0	85.0	88.0
35	-	87.0	-	85.0
40	-	86.0	-	-
45	-	85.0	-	-

Misc. Instantaneous SLM Readings	
Light Plant at Source	89 dBA
Operator's Station	94 dBA
Core Shack	90 dBA

100+ ft. highwall 50' from front of drill.



Slight 20 ft embankment 100' from right of drill.

XX = SPOT READING IN dBA

— * +85 dBA line

SCALE (Ft)

0 4 8 14 18 22

Figure 1 Gold Quarry Mine
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