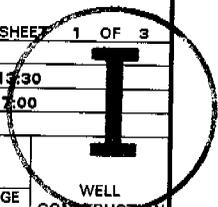


GT-94-08

BOREHOLE NUMBER:		GT-94-08		SHEET 1 OF 3	
BORING LOCATION: N 2201913.503/ E 478507.801 Telling embankment: Mid-north		SURFACE ELEVATION: 4939.4			
DRILLING CO.: HAZ-TECH Drilling Inc.		DRILLER: B. Nance		DATE/TIME STARTED: 16 SEP 94@13:30	
EQUIPMENT: GME - 75 Super				DATE/TIME FINISHED: 16 SEP 94@17:00	
WATER DEPTH: N/A		DATE/TIME OF DEPTH: N/A		LOGGED BY: M. Fairhurst	



ELEV. DEPTH	SOIL PROFILE	SAMPLES				DEPTH (UNITS)	STANDARD PENETRATION TEST ▲ 'N' BLOWS PER FOOT				WELL CONSTRUCTION	
		USCS CLASS	NO.	TYPE	BLOW COUNT/8"		20	40	60	80		
4939.3 0.1	Compact to very dense, moderate yellowish brown (10YR 5/4), stratified, c-f SAND and angular to sub-angular GRAVEL (variety of clast types), some Clayey Silt, damp to moist (COLLUVIUM) (BADGER FORMATION)											
		SM	1	SPT	10 13 20							
			SM	2	SPT	10 10 12						
			SM	3	SPT	9 10 10						

Continued Next Page

WELL CONSTRUCTION DETAILS

CASED INTERVAL: 29.5'-0"	BENTONITE INTERVAL: 28.0'-5.0'
CASING MATERIAL: Schedule 40 PVC	GROUT INTERVAL/TYPE: 5'- 0'/Cement-bentonite
CASING DIAMETER: 2.0"	SCREENED INTERVAL: 39.5'-29.5'
FILTER INTERVAL/TYPE: 40.3-28'/B-20 Sand	SURFACE CASING WITH LOCK: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

DISCLAIMER: This log is not to be used separately from the engineering report.
NOTE 1: See Cover Page For Legend And Soil Description Methodology **NOTE 2:** N/A

Project No.: 884	Design By: M. Fairhurst	Scale: 44:1
File: RSBUD	Drawn By: M. Fairhurst	Date: 6 February, 1995

Rosebud Project



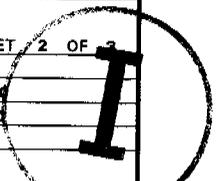
Figure 8

HECLA MINING COMPANY

ACZE 12 APR 95

GT-94-08

BOREHOLE NUMBER:		GT-94-08		SURFACE ELEVATION: 4939.4	
BORING LOCATION: N 2201913.603/ E 476807.801		Tailing embankment: Mid-north		DATE/TIME STARTED: 16 SEP 94@13:30	
DRILLING CO.: HAZ-TECH Drilling Inc.		DRILLER: B. Nance		DATE/TIME FINISHED: 16 SEP 94@17:00	
EQUIPMENT: CME - 75 Super		DATE/TIME OF DEPTH: N/A		LOGGED BY: M. Fairhurst	
WATER DEPTH: N/A					



ELEV. DEPTH	SOIL PROFILE SOIL DESCRIPTION	SAMPLES				DEPTH (UNITS)	STANDARD PENETRATION TEST ▲ 'N' BLOWS PER FOOT					WELL CONSTRUCTION
		USCS CLASS	NO.	TYPE	BLOW COUNT/8"		20	Wp 40	Wn 60	WL 80	80	
Feet	(Continued)					Feet						
		SM	4	SPT	15 9 10							
4913.4 26.0	Hard, grayish red (10R 4/2), massive, SILTY CLAY, little sub-angular fine Gravel (medium gray (N5)), moist (CHOCOLATE FORMATION?)	SM	5	SPT	28 50/5"	25.0						
		CL-CH	6	SPT	22 36 36	30.0						
		CL	7	SPT	9 24 43	35.0						
	Continued Next Page					40.0						

WELL CONSTRUCTION DETAILS

CASED INTERVAL: 29.5'-0"	BENTONITE INTERVAL: 28.0-5.0'
CASING MATERIAL: Schedule 40 PVC	GROUT INTERVAL/TYPE: 5'- 0'/Cement-bentonite
CASING DIAMETER: 2.0"	SCREENED INTERVAL: 39.5'-29.5'
FILTER INTERVAL/TYPE: 40.3-28'/8-20 Sand	SURFACE CASING WITH LOCK: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

DISCLAIMER: This log is not to be used separately from the engineering report.

NOTE 1: See Cover Page For Legend And Soil Description Methodology

Project No.: 864	Design By: M. Fairhurst	Scale: 44:1
File: RSBUD	Drawn By: M. Fairhurst	Date: 6 February, 1995

Rosebud Project

TerraMatrix
Engineering & Environmental Services
1476 Pine Grove Road, P.O. Box 774018
Steamboat Springs, Colorado 80477

Figure 8

HECLA MINING COMPANY

ACZE 12 APR 95

GT-94-08

BOREHOLE NUMBER:		GT-94-08		SHEET 3 OF 3	
BORING LOCATION: N 2201813.503/ E 478507.801 Telling embankment: Mid-north			SURFACE ELEVATION: 4939.4		
DRILLING CO.: HAZ-TECH Drilling Inc.		DRILLER: B. Nance		DATE/TIME STARTED: 18 SEP 94@13:30	
EQUIPMENT: CME - 75 Super			DATE/TIME FINISHED: 18 SEP 94@17:00		
WATER DEPTH: N/A		DATE/TIME OF DEPTH: N/A		LOGGED BY: M. Fairhurst	

ELEV. DEPTH	SOIL PROFILE SOIL DESCRIPTION	SAMPLES				DEPTH (UNITS)	STANDARD PENETRATION TEST ▲ 'N' BLOWS PER FOOT				WELL CONSTRUCTION
		USCS CLASS	NO.	TYPE	BLOW COUNT/6"		20	40	60	80	
Feet	<i>(Continued)</i>					Feet					
4899.1 40.3	Weathered Rock Bottom of Hole at 40.3'	N/A	8	SPT	50/4"						

WELL CONSTRUCTION DETAILS

CASED INTERVAL: 29.5'-0	BENTONITE INTERVAL: 28.0-5.0'
CASING MATERIAL: Schedule 40 PVC	GROUT INTERVAL/TYPE: 5'- 0/Cement-bentonite
CASING DIAMETER: 2.0"	SCREENED INTERVAL: 39.5'-29.5'
FILTER INTERVAL/TYPE: 40.3-28'/8-20 Sand	SURFACE CASING WITH LOCK: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

DISCLAIMER: This log is not to be used separately from the engineering report.

NOTE 1: See Cover Page For Legend And Soil Description Methodology

Project No.: 884	Design By: M. Fairhurst	Scale: 44:1	<i>Rosebud Project</i>
File: RSBUD	Drawn By: M. Fairhurst	Date: 8 February, 1995	
 Engineering & Environmental Services 1476 Pine Grove Road, P.O. Box 774016 Steamboat Springs, Colorado 80477			HECLA MINING COMPANY

Figure 8

ACZE 12 APR 95