WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY
Log No. 49403
Permit No.
Basin 028

NOTICE OF INTENT NO. Not Required

1. OWNER Hecla Mining Company
MAILING ADDRESS P.O. Box 1861, Lovelock, NV 89419
ADDRESS AT WELL LOCATION Rosebud Mine, 7000 Pitt Rd, Lovelock, NV 89417

2. LOCATION — ¼ — ¼ Sec. 24 T. 34 N/S R. 29 E Pershing County
PERMIT NO. MD-843 Issued by Water Resources | Lot 3 Parcel No. | Subdivision Name

3. WORK PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Abandon ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☐ Air ☒ Other HSA

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
See Attached Log				
GT-94-06				

RECEIVED 95 MAY 15 P2:18 STATE ENGINEER'S OFF

Date started 14 September, 1994
Date completed 14 September, 1994

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
N/A			

8. WELL CONSTRUCTION
Depth Drilled 34.0 Feet Depth Cased 33.5 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
~~8.0~~ Inches	~~23.5~~ Feet	— Feet
8.0 Inches	34.0 Feet	0 Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2.0	0.70	Schedule 40 PVC	23.5	0

Perforations:
Type perforation Machine Slot
Size perforation 0.020
From 33.5 feet to 23.5 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 5.0 ft. bgs
Placement Method: ☐ Pumped ☒ Poured
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed: ☒ Yes ☐ No
From 34.4 feet to 22.0 feet

9. WATER LEVEL
Static water level Not Encountered feet below land surface
Artesian flow N/A G.P.M. N/A P.S.I.
Water temperature N/A °F Quality N/A

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Brian Nance / Haz-Tech Drilling, Inc. Contractor
Address 3131 Lanark, Suite B Contractor
Meridian, ID 83642
Nevada contractor's license number issued by the State Contractor's Board 0023-111
Nevada driller's license number issued by the Division of Water Resources, the on-site driller N/A
Signed [signature] By driller performing actual drilling on site or contractor
Date 5-11-95

(Rev. 3-91) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

LOG 49403

GT-94-06

BOREHOLE NUMBER: GT-94-06 SHEET 1 OF 2

BORING LOCATION: N 2203274.066/ E 478732.562 Mill Facility: Center | SURFACE ELEVATION: 5024.7

DRILLING CO.: HAZ-TECH Drilling Inc. DRILLER: B. Nance | DATE/TIME STARTED: 14 SEP 94@14:40

EQUIPMENT: CME - 75 Super | DATE/TIME FINISHED: 14 SEP 94@16:00

WATER DEPTH: N/A DATE/TIME OF DEPTH: N/A | LOGGED BY: M. Fairhurst

ELEV. / DEPTH (Feet)	SOIL PROFILE: SOIL DESCRIPTION	SAMPLES: USCS CLASS	NO.	TYPE	BLOW COUNT/6"	DEPTH (UNITS) (Feet)	STANDARD PENETRATION TEST ▲ 'N' BLOWS PER FOOT (20 40 60 80) / WATER CONTENT, PERCENT & RANGE (Wp Wn WL; 20 40 60 80)	WELL CONSTRUCTION
5024.6 / 0.1	*Moderate yellowish brown (10YR 5/4), f-c SAND, some Silt, damp-dry (TOPSOIL/COLLUVIUM?)*							Top PVC elev: 5027.79
5020.4 / 4.3	*Stiff to hard, moderate brown (5YR 4/4), non-stratified, SILTY CLAY, little sub-angular Gravel (variety of clast types), trace Clay, damp (COLLUVIUM?) (BADGER FORMATION)*	CL	1	SPT	7 12 10	5.0	▲	
		CL	2	SPT	50/4"	10.0	▲	
5012.2 / 12.5	*Hard, grayish red (10R 4/2), non-stratified, CLAYEY SILT, damp (TUFF) (CHOCOLATE FORMATION)*	ML-CL	3	SPT	50/5"	15.0	▲	
		CL	4	SPT	50/5"	20.0	▲	

Continued Next Page

WELL CONSTRUCTION DETAILS

CASED INTERVAL: 23.5'-0
CASING MATERIAL: Schedule 40 PVC
CASING DIAMETER: 2.0"
FILTER INTERVAL/TYPE: 34.4-22'/8-20 Sand
BENTONITE INTERVAL: 22.0'-5.0'
GROUT INTERVAL/TYPE: 5.0'-0/Cement-bentonite
SCREENED INTERVAL: 33.5'-23.5'
SURFACE CASING WITH LOCK: YES ☒ NO ☐

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.: 864	Design By: M. Fairhurst	Scale: 44:1	Rosebud Project
File: RSBUD	Drawn By: M. Fairhurst	Date: 6 February, 1995	

TerraMatrix
Engineering & Environmental Services
1476 Pine Grove Road, P.O. Box 774019
Steamboat Springs, Colorado 80477

Figure 6

HECLA MINING COMPANY

ACZE 12 APR 95

LOG 99403

GT-94-06

BOREHOLE NUMBER: GT-94-06 SHEET 2 OF 2

BORING LOCATION: N 2203274.066/ E 478732.562 Mill Facility: Center

SURFACE ELEVATION: 5024.7

DRILLING CO.: HAZ-TECH Drilling Inc. DRILLER: B. Nance

DATE/TIME STARTED: 14 SEP 94@ :40

EQUIPMENT: CME - 75 Super

DATE/TIME FINISHED: 14 SEP 94@1

WATER DEPTH: N/A DATE/TIME OF DEPTH: N/A

LOGGED BY: M. Fairhurst

ELEV. / DEPTH (Feet)	SOIL PROFILE: SOIL DESCRIPTION	SAMPLES: USCS CLASS	NO.	TYPE	BLOW COUNT/6"	DEPTH (UNITS) (Feet)	STANDARD PENETRATION TEST ▲ 'N' BLOWS PER FOOT (20 40 60 80) / WATER CONTENT, PERCENT & RANGE (Wp Wn WL) (20 40 60 80)	WELL CONSTRUCTION
	(Continued)							
		CL	5	SPT	50/6"			
						25.0		
		CL	6	SPT	50/4"			
						30.0		
4990.3 / 34.4	*Bottom of Hole at 34.4'*	CL	7	SPT	50/4"			

WELL CONSTRUCTION DETAILS

CASED INTERVAL: 23.5'-0
CASING MATERIAL: Schedule 40 PVC
CASING DIAMETER: 2.0"
FILTER INTERVAL/TYPE: 34.4-22'/8-20 Sand
BENTONITE INTERVAL: 22.0'-5.0'
GROUT INTERVAL/TYPE: 5.0'-0/Cement-bentonite
SCREENED INTERVAL: 33.5'-23.5'
SURFACE CASING WITH LOCK: YES ☒ NO ☐

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	*Rosebud Project*
File: RSBUD	Drawn By: M. Fairhurst	Date: 6 February, 1995	

TerraMatrix Engineering & Environmental Services
1476 Pine Grove Road, P.O. Box 774019
Steamboat Springs, Colorado 80477

Figure 6

HECLA MINING COMPANY

ACZE 12 APR 95