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. 95947
Permit No.
Basin 062

NOTICE OF INTENT NO. 54686

1. OWNER HECLA VENTURES
MAILING ADDRESS PO BOX 2610
WINNEMUCCA, NV 89446

ADDRESS AT WELL LOCATION
IVANHOE MINE

2. LOCATION SW 1/4 SW 1/4 Sec 4 T 37 N/S R 48 E ELKO County
PERMIT NO.
Issued By Water Resources | Parcel No. | Subdivision Name

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

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Indu ☒ Monitor ☐ Shock

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

6. LITHOLOGIC LOG

Material	Water Bearing	From	To	Thickness
FILL		0	17	17
BROWN CLAY AND ANDESITE		17	25	8
TAN ANDESITE		25	100	75
BLACK ANDESITE		100	180	80

RECEIVED
05 FEB 23 AM 11:41
STATE ENGINEERS OFFICE

Date Started February 2 2005
Date Completed February 14 2005

7. WELL TEST DATA
TEST METHOD:
☐ BAILER ☐ PUMP ☒ AIR LIFT

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
2		2

8. WELL CONSTRUCTION
Depth Drilled 180 Feet Depth Cased ~~170~~ 177 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10	Inches	0	Feet	180	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (inches)	Weight (pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
401/2		PVC SCH 40	+2	157

Perforations:
Type Perforation SCREEN
Size Perforation 0.02
From 157 feet to 177 feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 0 TO 140
Seal Type: ☐ Neat Cement ☒ Cement Grout ☐ Concrete Grout

Placement Method: ☐ Pumped ☒ Poured

Gravel Packed: ☒ Yes ☐ No
From 140 feet to 177 feet
From feet to feet

9. WATER LEVEL
Static Water Level 80 feet below land surface
Artesian flow G.P.M. P.S.I.
Water temperature COOL °F Quality GOOD

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Hydro Resources Nevada Inc. dba Humboldt Drilling and Pump Co.
Address 4975 West Winnemucca Boulevard
Winnemucca, Nevada 89445

Nevada Contractor's license number issued by the State Contractor's Board 56797
Nevada Driller's license number issued by the Division of Water Resources, the on-site driller 1713-T1

Signed: Kenneth L. Rohr Date: 2/14/05