

DIVISION OF WATER RESOURCES  
WELL DRILLER'S REPORT

Log No. 108764  
Permit No. 054  
Basin 054

PRINT OR TYPE ONLY

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

NOTICE OF INTENT NO. 63901

1. OWNER **Barrick Cortez Mine** DW-15 ADDRESS AT WELL LOCATION **South of Crescent Valley, NV**  
MAILING ADDRESS **HC66 Box 1250**  
**Crescent Valley, NV 89821** Subdivision Name: \_\_\_\_\_ County: **Lander**

2. LOCATION **SW1/4SW1/4 Sec31T27N/ R48E** Latitude **40.163276°N** UTM E **532963**  NAD 27  
PERMIT/WAIVER NO. **77179** Longitude **116.612921°W** **4445741**  NAD 83/WGS 84  
Issued by Water Resources Parcel No. **NAD 27 (TA)**

3. WORK PERFORMED  
 New Well  Replace  Recondition  
 Deepen  Other \_\_\_\_\_  
4. PROPOSED USE  
 Domestic  Irrigation  Test  
 Municipal/Industrial  Monitor  Stock  
5. WELL TYPE  
 Cable  Rotary  RVC  
 Air  Other **Flooded Reverse**

6. LITHOLOGIC LOG				
Material	Water Strata	From	To	Thick-ness
Alluvium		0'	190'	190'
Alluvium w/Clay		190'	460'	270'
Gray Limestone		460'	1155'	695'
Dike		1155'	1230'	75'
Gray Limestone		1230'	1760'	530'
White Clay & Dike		1760'	1770'	10'
Dark Green to Black Dike		1770'	1810'	40'
Dark Gray Limestone		1810'	2060'	250'
Pink Dike		2060'	2070'	10'
Dark Gray Limestone		2070'	2090'	20'
Dike		2090'	2395'	305'
Medium Gray Dolomite		2395'	2460'	65'
Light Gray Dolomite		2460'	2570'	110'
Medium Gray Dolomite		2570'	2580'	10'
Light/Medium Gray Dolomite		2580'	2860'	280'
Pink & Tan Dolomite		2860'	2880'	20'
White/Tan & Pink Clay		2880'	2925'	45'
White & Pink Dolomite		2925'	2980'	55'
Tan Clay		2980'	2990'	10'
Dike		2990'	3050'	60'
White to Mauve Dolomite		3050'	3080'	30'
Tan to Pink Clay		3080'	3120'	40'
Sounder Pipe		+2'	3080'	3082'
2.375" 5.02 lb/ft Sch. 80				

9. WELL CONSTRUCTION  
Depth Drilled **3120** Feet Depth Cased **3100** Feet  
HOLE DIAMETER (BIT SIZE)  
From To  
**38.00** Inches **0** Feet **80** Feet  
**28.00** Inches **80** Feet **1800** Feet  
**19.00** Inches **1800** Feet **3120** Feet

CASING SCHEDULE				
Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
34.00	177.21	.500	0	80
22.00	114.81	.500	0	1800
12.750	49.56	.375	+2	3100

Perforations:  
Type of perforation **Louvered**  
Size of perforation **.255**  
From **2499** feet to **3100** feet  
From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Annular Seal:  Yes  No  
 Neat Cement **0'** to **2350'**  Pumped  Poured  
 Cement Grout \_\_\_\_\_ to \_\_\_\_\_  Pumped  Poured  
 Concrete Grout \_\_\_\_\_ to \_\_\_\_\_  Pumped  Poured  
 ≥30% Bentonite Grout \_\_\_\_\_ to \_\_\_\_\_  Pumped  Poured  
Gravel Pack:  Yes  No **2350'** to **3120'**  Pumped  Poured  
Type: **1/2 x 5/8 SRI**  
Bentonite Chips:  Yes  No \_\_\_\_\_ to \_\_\_\_\_  Pumped  Poured  
Type: \_\_\_\_\_

Date started: **24-Jun**, 20 **09**  
Date completed: **18-Aug**, 20 **09**

7. Water Level  
Static water level: **1750** feet below land surface  
Artesian Flow: \_\_\_\_\_ G.P.M. \_\_\_\_\_ P.S.I.  
Water Temperature: **102** °F  
Quality: \_\_\_\_\_

8. WELL TEST DATA			
TEST METHOD:	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input checked="" type="checkbox"/> Air Lift	<b>250.0</b>	<b>30.0</b>	<b>72.0</b>

10. DRILLER'S CERTIFICATION  
This well was drilled under my supervision and the report is true to the best of my knowledge.  
Name **Boart Longyear Drilling Services** (CONTRACTOR)  
Address **P.O. Box 5279** (CONTRACTOR)  
**Elko, NV 89802**  
Nevada contractor's license number issued by the State Contractor's Board **0021976**  
Nevada driller's license number issued by the Division of Water Resources, the on-site driller **2350**  
Signed \_\_\_\_\_  
By driller performing actual drilling on site or contractor  
Date **15-Sep-09**