STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

PRINT OR TYPE ONLY

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

OFFICE USE ONLY
Log No. 103560 B1
Permit No.
Basin 054

NOTICE OF INTENT NO. **59252**

1. OWNER **Barrick Cortez Mines** **CHPZ-52**
MAILING ADDRESS **HC66, Box 1250**
Crescent Valley, NV. 89821

ADDRESS AT WELL LOCATION **Cortez minesite**
7 miles west of Crescent Valley, NV.
Subdivision Name: **N/A** *County:* **Lander**

2. LOCATION ~~SW¼NW~~ NW SW ¼ Sec **31** T **27** N/ R **48** E
PERMIT/WAIVER NO. **M/O - 1448** *Issued by Water Resources* **N/A** Parcel. No.

Latitude **40° 09.876" N** UTM E ☒ NAD 27
Longitude **116° 36.844" W** N ☐ NAD 83/WGS 84

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 RVC**

6. **LITHOLOGIC LOG**

Material	Water Strata	From	To	Thickness
Oxidized Alluvium		0'	240'	240'
Gray silty limestone		240'	450'	210'
Oxidized marble		450'	600'	150'
Carbonaceaous micrite		600'	1210'	610'
Oxidized quartz		1210'	1400'	190
White marble		1400'	1510'	110'
Oxidized quartz		1510'	1600'	90'
White marble		1600'	1760'	160'
Weak silty limestone		1760'	2070'	310'
Biotite quartz		2070'	2110'	40'
Silicified limestone		2110'	2210'	100'
White quartz		2210'	2290'	80'
Crystaline dolostone		2290'	2370'	80'
White quartz		2370'	2450'	80'
Marble with sporadic pyrite		2450'	2650'	200'

N 40.169600
W 116.614067 NAD27

Date started: **05/29**, 20 **07**
Date completed: **07/01**, 20 **07**

9. ***WELL CONSTRUCTION***

Depth Drilled **2650** Feet Depth Cased **2631** Feet

HOLE DIAMETER (BIT SIZE)

	From	To
20 Inches	**0** Feet	**55** Feet
14.75 Inches	**55** Feet	**1286** Feet
8.75 Inches	**1286** Feet	**2650** Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
16	**42**	**0.250**	**0**	**55**
10.750	**28**	**0.250**	**0**	**1286**

Perforations:
Type of perforation
Size of perforation
From feet to feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☒ Neat Cement 0' to 55' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☐ Yes ☐ No to ☐ Pumped ☐ Poured
Type:
Bentonite Chips: ☐ Yes ☐ No to ☐ Pumped ☐ Poured
Type:

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

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

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

STATE ENGINEERS OFFICE
2007 AUG -6 PM 12:21

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 **PO Box 5279** (CONTRACTOR)
Elko, NV. 89802-5279
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* **2283**
Signed
By driller performing actual drilling on site or contractor
Date **08/01/07**

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DIVISION OF WATER RESOURCES

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NOTICE OF INTENT NO. 59252

1. OWNER Barrick Cortez Mines CHPZ-52
MAILING ADDRESS HC66, Box 1250
Crescent Valley, NV. 89821

ADDRESS AT WELL LOCATION Cortez minesite
7 miles west of Crescent Valley, NV.
Subdivision Name: N/A *County:* Lander

2. LOCATION SW¼NW¼ Sec31T27N/ R48E
PERMIT/WAIVER NO. M/O - 1448 *Issued by Water Resources* N/A Parcel. No.

Latitude 40° 09.876" N UTM E ☒ NAD 27
Longitude 116° 36.844" W N ☐ NAD 83/WGS 84

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 RVC

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
page 2				
Notes:				
3/8" Hole Plug		100'	105'	5'
30% Bentonite Grout		105'	1741'	1636'
3/8" Hole Plug		1741'	1788'	47'
1/4" SRI Gravel		1788'	2235'	447'
3/8" Hole Plug		2235'	2469'	234'
1/4" SRI Gravel		2469'	2650'	181'

Date started: 05/29 , 20 07
Date completed: 07/01 , 20 07

9. *WELL CONSTRUCTION*
Depth Drilled 2650 Feet Depth Cased 2631 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
Inches	Feet	Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2.375	5.02	0.218	+2	2231
2.375	5.02	0.218	+2	2631

Perforations:
Type of perforation Slotted
Size of perforation 0.125"
From 1792 feet to 2231 feet
From 2471 feet to 2631 feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☒ Neat Cement 0' to 100' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No to ☐ Pumped ☐ Poured
Type: see notes
Bentonite Chips: ☒ Yes ☐ No to ☐ Pumped ☐ Poured
Type: see notes

7. *Water Level*
Static water level: 1362 feet below land surface
Artesian Flow: G.P.M. P.S.I
Water Temperature: Cool °F
Quality: Fair

8. WELL TEST DATA
TEST METHOD: ☒ Bailer ☐ Pump ☐ Air Lift

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

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 PO Box 5279 (CONTRACTOR)
Elko, NV. 89802-5279
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* 2283
Signed
By driller performing actual drilling on site or contractor
Date 08/01/07