waiver:
R3D-2012-5

**STATE OF NEVADA**

**DIVISION OF WATER RESOURCES**

**WELL DRILLER'S REPORT**

* PLUGGING REPORT *

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

**PRINT OR TYPE ONLY**

OFFICE USE ONLY
Log No. 116982
Permit No.
Basin 053

NOTICE OF INTENT NO. 68979

1. OWNER Barrick Cortez Mine "Hay-1"
MAILING ADDRESS HC 66 Box 1250
Crescent Valley, NV 89821

ADDRESS AT WELL LOCATION Hay Ranch
20 miles south of Carlin, NV
Subdivision Name: Ramdhouse County: Lander

2. LOCATION SW¼SE¼ Sec09T29N/ R52E
PERMIT/WAIVER NO. N/A
Issued by Water Resources Parcel. No.

Latitude
Longitude
UTM E 575446 ☒ NAD 27
N 4472878 ☐ NAD 83/WGS 84

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

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

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

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|---|---|---|---|---|
| Alluvium clay mix | | 0 | 480 | 480 |
| All casing pulled | | | | |
| Hole abandoned | | | | |
| Abantonite 102 cu/ft | | 62 | 480 | 418 |
| 3/8 Hole plug | | 50 | 62 | 12 |
| Neat cement | | 0 | 50 | 50 |
| Water Data: | | | | |
| 2 GPM @100' | | | | |
| 100 GPM @ 240' | | | | |
| 125 GPM @ 300' | | | | |
| After installing temporary | | | | |
| Intermediate casing to 300' | | | | |
| 10 GPM @320' | | | | |
| 107 GPM @ 380' | | | | |
| 150 GPM @480' | | | | |

Date started: April 11, 20 12
Date completed: April 16, 20 12

7. Water Level
Static water level: 59 feet below land surface
Artesian Flow: N/A G.P.M. N/A P.S.I
Water Temperature: N/A °F
Quality: N/A

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

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|---|---|---|
| 150 | N/A | 1 |
| 40.404996° N | NAD27 | |
| 116.110895° W | | |

9. WELL CONSTRUCTION
Depth Drilled 480 Feet Depth Cased 0 Feet

HOLE DIAMETER (BIT SIZE)

| | From | To |
|---|---|---|
| 14.750 Inches | 0 Feet | 20 Feet |
| 9.875 Inches | 20 Feet | 300 Feet |
| 6.250 Inches | 300 Feet | 480 Feet |

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|---|---|---|---|---|
| | | N/A | | |

Perforations:
Type of perforation N/A
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 50 | | ☐ 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: | | | | |

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 2745 California Avenue (CONTRACTOR)
Salt Lake City, UT 84104
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 2239
Signed
By driller performing actual drilling on site or contractor
Date April 27, 2012

RECEIVED 2012 MAY -2 AM 11:44 STATE ENGINEERS OFFICE

(Rev 05-06) USE ADDITIONAL SHEETS IF NECESSARY

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NOI # 68979

**Matt Hein**

**From:** Matt Hein
**Sent:** Friday, April 20, 2012 11:39 AM
**To:** 'Kohlman, Dan'
**Cc:** 'pyoung@barrick.com'; 'kathy2@rci-nv.com'; Tom Gallagher; Hamilton Reed; Lynette M. Johnson
**Subject:** RE: Hay Ranch Domestic Well / NOI #68979

Dan,

Per our conversation this morning (with Tom Gallagher): a well serving a *handful* of residences is NOT to be defined as a "single family" domestic well (ie: the *correct* perception is "one well – one house"). Please have your client pursue a permit for this project, prior to filing any further notices of intent to drill. It is our understanding the 6" test hole, drilled to some 600 ft., was plugged and abandoned simultaneously and that well report is on its way to NDWR.

If you have any further questions, please give a call.

All the best,
Matt

*Matthew M. Hein*
Well Supervisor - Adjudication & Drilling Regulation
Nevada Division of Water Resources
901 S. Stewart Street, Suite 2002
Carson City, NV 89701
mhein@water.nv.gov
Office: 775-684-2855
Fax: 775-684-2810
Web: http://water.nv.gov

DEPARTMENT OF
CONSERVATION &
NATURAL RESOURCES

**From:** Kohlman, Dan [mailto:dkohlman@boartlongyear.com]
**Sent:** Friday, April 20, 2012 10:24 AM
**To:** Hamilton Reed; Matt Hein
**Subject:** FW: Hay Ranch Domestic Well

Guys,
I just want to make sure we have our ducks in a row when the time comes to drill this well.
As we discussed on the phone, the card I sent in (late, sorry) was just for the test hole.
I believe the mine will want to drill this well in the next couple weeks.
My only real question is when I went to the property, I saw 4 or 5 houses that I believe will be serviced by this well.
Would they all be considered part of the "complex"?
We don't drill many domestic wells, so I'm not sure what is included in a "single family dwelling" as the regs state.
Let me know what you think please.
Thanks,
Dan

NDI #68979

Daniel Kohlman
Boart Longyear
Operations Manager-Elko Large Rotary
3707 Manzanita Lane, Elko, Nv 89801
P.O. Box 1750, Elko, Nv 89803
Office 775-753-8710
Mobile 775-397-0964
Fax 775-753-5278

**From:** Young, Peggy (Cortez) [mailto:pyoung@barrick.com]
**Sent:** Thursday, April 19, 2012 11:14 AM
**To:** Kohlman, Dan
**Subject:** FW: Hay Ranch Domestic Well

Dan,

What are water rights folks say regarding drilling the Hay Ranch well.

Please feel free to contact Kathy directly if you would like to discuss this further.

Thanks
Peggy

**From:** Kathy Sylvia [mailto:kathy2@rci-nv.com]
**Sent:** Thursday, April 19, 2012 8:23 AM
**To:** Young, Peggy (Cortez)
**Cc:** Bruce Scott; Shawnee Clayson
**Subject:** Hay Ranch Domestic Well

Hi Peggy -

Did you get my telephone message yesterday?

Bottom line regarding the domestic well issues your well drillers seem to be having:
You do not need a water rights permit to drill a domestic well.
The drillers need to let the Division of Water Resources know that this is not a replacement domestic well; it is a replacement well for a failed spring source.
If the well is just serving the ranch complex, a water right permit is not necessary.
If later on you want to add more uses - like stockwater or additional houses / living quarters for more people - we can put permitted water into that well.
Traditionally, the domestic water well will serve the buildings in the ranch complex including the barns and corrals.
Again - if usage gets excessive, we can move permitted water into the well.

Bruce is happy to talk to the well drillers or whoever at the Division of Water Resources..

Let me know if you need us to do anything!

Thanks -

Kathy

NOI # 68979

**Kathy Sylvia**
**Water Rights**
KathyS@rci-nv.com

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