

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 120978
Permit No. _____
Basin 109

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

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

NOTICE OF INTENT NO. 71720

1. OWNER Borealis Mine ADDRESS AT WELL LOCATION 12 miles southwest of Hawthorne Lucky Boy Pass, Borealis mine
MAILING ADDRESS P.O. Box 549 Hawthorne Nevada 89415 Subdivision Name: _____ County: _____

2. LOCATION NE 1/4 NE 1/4 Sec 17 T 6.0 S R 29 E Latitude _____ UTM 6246158 NAD 27
PERMIT/WAIVER No. _____ Longitude _____ N 4250105 NAD 83/WGS 84

Issued by Water Resources Parcel No. _____

3. **PMW-4 WORKED PERFORMED**
 New Well Replace Recondition
 Deepen Other

4. PROPOSED USE
 Domestic Irrigation Test Cable Rotary RVC
 Municipal/Industrial Monitor Stock Air Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
<u>ALLUVIUM</u>		<u>0'</u>	<u>120'</u>	<u>120'</u>
<u>TRANSITION</u>		<u>120'</u>	<u>140'</u>	<u>20'</u>
<u>VOLCANICS</u>		<u>140'</u>	<u>240'</u>	<u>100'</u>
<u>TRACE of water at - 200'</u>				
<u>0 to 5 GPM.?</u>				
<u>Perf. 240' up to 170'</u>				
<u>40 Bags Silica Sand</u>				
<u>20 Bags 3/8" Hole plug</u>				
<u>12 Bags Neat Cement</u>				
<u>5ft up to surface plus 2'</u>				
<u>Rimrock Tool GPS</u>				
<u>OF This Well PMW-4</u>				
<u>0346151 E</u>				
<u>4250107 N</u>				

9. WELL CONSTRUCTION

Depth Drilled 240 Feet Depth Cased 240 Feet

HOLE DIAMETER (BIT SIZE)

	From	To	Feet
<u>8 1/2" Inches</u>	<u>0'</u>	<u>20'</u>	<u>20'</u>
<u>6 3/4" Inches</u>	<u>20'</u>	<u>240'</u>	<u>240'</u>

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
			<u>2" SCH 80 PVC</u>	<u>240' - 0' plus 3'</u>

Perforations:

Type of perforation Horiz. slot
Size of perforation 0.20

From	feet to	feet
<u>240'</u>	<u>170'</u>	

Annular Seal: Yes No

	to			
<input type="checkbox"/> Neat Cement	<u>0</u>	<u>50'</u>	<input checked="" type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Cement Grout			<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Concrete Grout			<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> ≥30% Bentonite Grout			<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured

Gravel Pack: Yes No 240 to 160' Pumped Poured
Type: Silica Sand #8

Bentonite Chips: Yes No 160' to 50' Pumped Poured
Type: 3/8" well Plug

Date started: 10-15 20 14
Date completed: 10-16 20 14

7. Water Level
Static water level: 122'6" to surface feet below land surface
Artesian Flow: _____ G.P.M. _____ P.S.I.
Water Temperature: 48° °F
Quality: CLEAN

8. WELL TEST DATA

TEST METHOD:	Bailer	Pump	Air Lift	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<u>BLOW AIR</u>						<u>2 1/2 HRS</u>
<u>Mad 27</u>						
<u>38.580025 N</u>						
<u>119.760522 W</u>						

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Ward Weaver Contractor
Address Rimrock Drilling Inc
shop 2305 Last Chance Rd. Ely NV 89801
Nevada contractor's license number _____
issued by the State Contractor's Board 0030630
Nevada driller's license number issued by the 7676
Division of Water Resources, the on-site driller

Signed Ward Weaver By driller performing actual drilling on-site or contractor
Date 10-16-14