

WHITE-DIVISION OF WATER RESOURCES
CANARY-CLIENT'S COPY
PINK-WELL DRILLER'S COPY

DW-16
STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 77033
Permit No. 39
Basin _____

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. 42878
MCCOY/COVE MINESITE

1. OWNER ECHO BAY MINERALS ADDRESS AT WELL LOCATION SOUTH OF BATTLE MTN., NV.
MAILING ADDRESS P.O. BOX 1658
BATTLE MTN., NV. 89820
2. LOCATION SW 1/4 SE 1/4 Sec. 36 T. 29 N. S. R. 42 E. LANDER County
PERMIT NO. 58410 Parcel No. N/A Subdivision Name N/A

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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
NOTE: WELL HAS BEEN MINED OFF. ONLY 630' REMAINED AT THE TIME OF ABANDONMENT. WE HAVE CHANGED THE SEAL AND GRAVEL PACK INFORMATION TO REFLECT THE WELL AS IT EXISTED WHEN WE ABANDONED IT.				
ABANDONED BY PUMPING ABANTONITE VIA TREMMIE FROM T.D. TO 225' THEN A MIXTURE OF ABANTONITE AND 3/4" HOLE PLUG FROM 225' TO 20', AND CAPPED THE WELL WITH 20' OF NEAT CEMENT.				
USED 1470 CU.FT. OF ABANTONITE		630	225	405
USED 241 CU.FT. OF ABANTONITE AND 240 CU.FT. OF 3/4 HOLE PLUG		225	20	205
USED 62 CU.FT. OF NEAT CEMENT.		20	0	20

8. WELL CONSTRUCTION
Depth Drilled 925 Feet Depth Cased 920 Feet
HOLE DIAMETER (BIT SIZE)
From To
48 Inches 0 Feet 54 Feet
34 Inches 54 Feet 715 Feet
31 Inches 715 Feet 925 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
36	142.68	0.375	0	54
20	78.60	0.312	0	920

Perforations:
Type perforation LOUVER
Size perforation 0.125"
From 360 feet to 760 feet
From 800 feet to 880 feet
From _____ feet to _____ feet
From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout
Depth of Seal _____
Placement Method: Pumped Poured
Gravel Packed: Yes No
From 0 feet to 630 feet

9. WATER LEVEL
Static water level 227 feet below land surface
Artesian flow N/A G.P.M. _____ P.S.I. _____
Water temperature _____ °F Quality _____

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name LANG EXPLORATORY DRILLING Contractor
Address P.O. BOX 5279 Contractor
ELKO, NV 89802
Nevada contractor's license number 0021976
issued by the State Contractor's Board
Nevada driller's license number issued by the 1716
Division of Water Resources, the on-site driller
Signed [Signature]
By driller performing actual drilling on site or contractor
Date SEPTEMBER 22, 1999

Date started SEPTEMBER 17 19 99
Date completed SEPTEMBER 20 19 99

7. WELL TEST DATA

TEST METHOD:	Draw Down (Feet Below Static)	Time (Hours)
<input type="checkbox"/> Bailor <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift		
G.P.M.		



DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

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Log
77033

December 8, 2000

Eric L. Daniels
Safety & Environmental Manager
Echo Bay Minerals Company – McCoy/Cove Mine
P O Box 1658
Battle Mountain, Nevada 89820

Re: Second request to waive plugging requirements for abandoned dewatering wells
at McCoy/Cove Mine, Lower Reese River Valley, Lander County, Nevada

Dear Mr. Daniels:

I apologize for the undue delay in this response, as I know you are anxious to finalize matters with the water wells at your mine properties. I am glad we had the opportunity to discuss these matters in person and I have reviewed your additional diagrams and information dated October 19, 2000.

As we discussed, the primary purpose of the plugging rule in Nevada is to return every borehole or well back to a condition that existed prior to the time it was drilled. Plugging represents a relatively permanent condition that eliminates as many question marks as possible regarding the integrity of each hole. We also talked about the importance of the State Engineer acting in a fair and consistent manner all over Nevada. It is in our best interest to continue to work with you and every other operator on a case-by-case basis, to design the most cost effective approach to plugging so that it gets done.

I have spent a great deal of time since our new regulation was written working with drilling contractors in the field, to see what options in methods and materials are best for different well conditions. I was in the Cove Pit last year working with one of your contractors to determine how bentonite grout, provided for in the regulation, was performing on large diameter wells, as we plugged exactly the same type of wells for which you now request a variance. At the time this office waived some of the perforating requirements based on the completions of those wells and the grout used worked very well.

Eric L. Daniels
Safety & Environmental Manager
Echo Bay Minerals Company – McCoy/Cove Mine
December 8, 2000
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As to your present request, this office still finds no grounds to waive the plugging requirements, except to the extent previously. That is, based on your diagrams of well completions, the State Engineer waives the perforating requirements as set forth in §534.420 (5)(b) of the Nevada Administrative Code. All wells shall be grouted from the total depth to fifty (50) feet above the open interval or top of the screen (or to surface) and the plug shall be tagged with a sufficient force to verify it's location. The remainder of the well bore may be backfilled with clean fill to twenty (20) feet below surface and then a grout surface plug shall be placed in each well as provided by rule.

This decision is consistent with the considerations that we are giving elsewhere in the state, including mining operations where water qualities are non-potable and even brackish. If you have any questions, please call me at 775-687-3861, or send a fax to 775-687-1393.

Very truly yours,



Thomas K. Gallagher, P.E.
Senior Ground Water Engineer

cc: NDWR, Las Vegas
Ross E. DeLipkau, Esq.
Robert K. Martinez, P.E., Chief, Engineering and Dam Safety
Tim Wilson, NDWR
Matt Dillon, NDWR

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