

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

OFFICE USE ONLY
Log No. 114363
Permit No.
Basin 066

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. 65817

1. OWNER **Twin Creeks Mine** DW-76 ADDRESS AT WELL LOCATION **Twin Creeks Mine**
MAILING ADDRESS **P.O. Box 669** **North of Golconda**
Carlin, NV 89822 **Subdivision Name:** **County: Humboldt**

2. LOCATION **SE 1/4 NW 1/4 Sec 8 T39N R43E** Latitude _____ UTM E **487088** NAD 27
PERMIT/WAIVER NO. **Order #1087** Longitude _____ N **4569330** NAD 83/WGS 84
Issued by Water Resources Parcel No. _____

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**

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|--------------------------------|--------------|------|-----|-----------|
| White and grey rock | | 0 | 40 | 40 |
| Tan/brown/black & grey gravel | | 40 | 110 | 70 |
| Tan and grey rock w/clay | | 110 | 135 | 25 |
| Tan/brown & grey gravel | | 135 | 165 | 30 |
| Tan/brown & grey rock w/clay | | 165 | 225 | 60 |
| Brown/tan & black gravel | | 225 | 260 | 35 |
| Tan & grey rock w/clay | | 260 | 315 | 55 |
| Tan & grey rock w/little clay | | 315 | 380 | 65 |
| Brown & grey rock w/clay | | 380 | 395 | 15 |
| Tan & grey rock w/clay | | 395 | 460 | 65 |
| Grey gravel w/clay | | 460 | 590 | 130 |
| Brown & grey rock w/clay | | 590 | 660 | 70 |
| Tan/brown & grey gravel w/clay | | 660 | 745 | 85 |
| Tan & grey rock | | 745 | 755 | 10 |
| Brown rock w/clay | | 755 | 780 | 25 |
| Black & grey gravel | | 780 | 845 | 65 |
| Tan & grey gravel w/clay | | 845 | 865 | 20 |
| Grey & black gravel w/clay | | 865 | 875 | 10 |
| White/grey & tan rock | | 875 | 980 | 105 |

9. WELL CONSTRUCTION
Depth Drilled **980** Feet Depth Cased **970** Feet
HOLE DIAMETER (BIT SIZE)
From _____ To _____
28 Inches **0** Feet **60** Feet
22 Inches **60** Feet **980** Feet
_____ Inches _____ Feet _____ Feet

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|--------------------|---------------------|-------------------------|-------------|------------|
| 24 | 94.62 | .375 | 0 | 60 |
| 16 | 62.58 | .375 | 0 | 970 |

Perforations:
Type of perforation **Louvered**
Size of perforation **.125**
From **970** feet to **480** 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 465 to 980 Pumped Poured
Type: **3/8" Gravel**
Bentonite Chips: Yes No 50 to 465 Pumped Poured
Type: **3/8" hole plug**

Date started: **June 27, 20 11**
Date completed: **August 10, 20 11**

7. Water Level
Static water level: **477.3** feet below land surface
Artesian Flow: **N/A** G.P.M. **N/A** P.S.I.
Water Temperature: **cool** °F
Quality: **good**

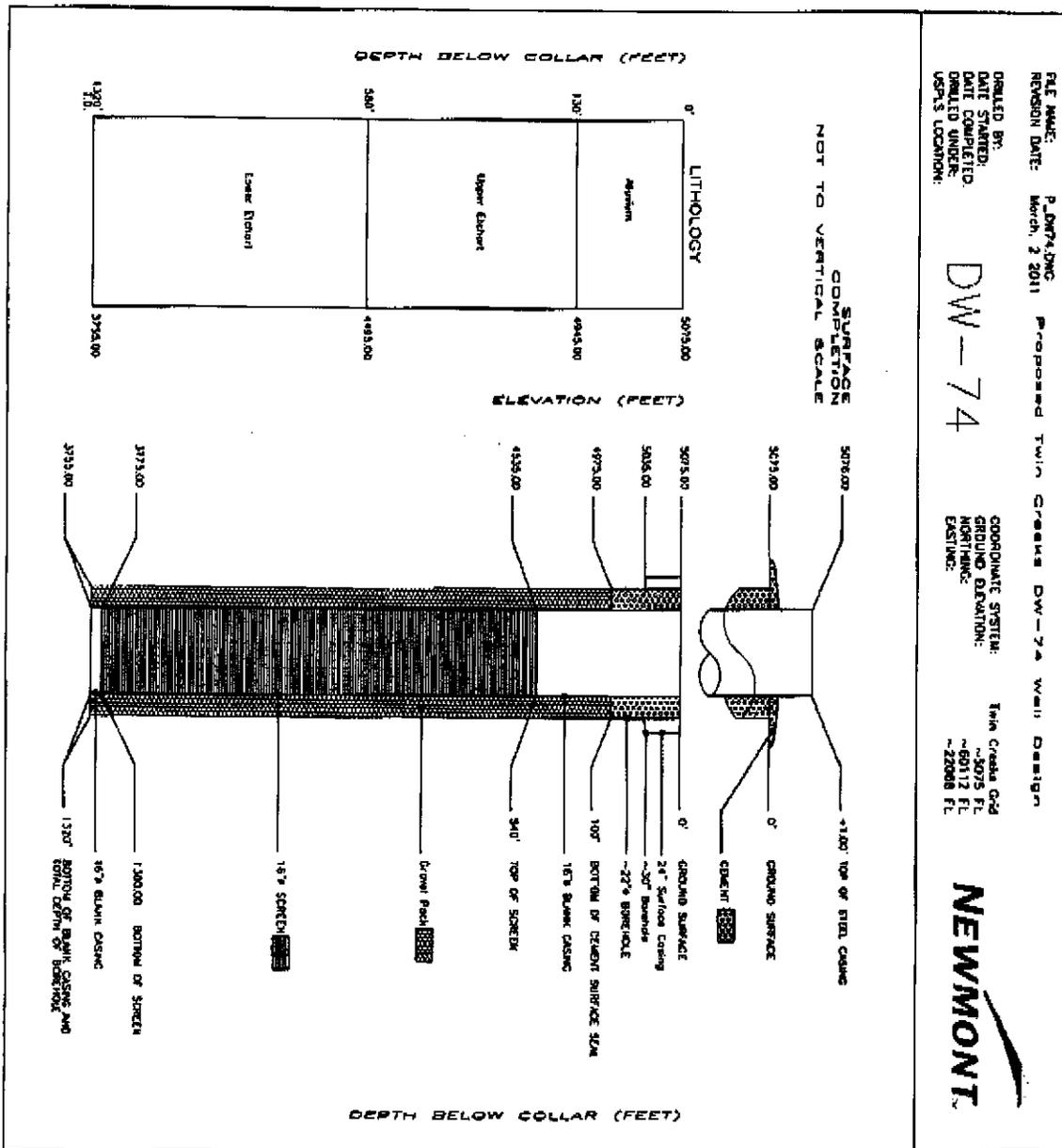
8. WELL TEST DATA

| 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 | 275 | N/A | 2 |

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** (CONTRACTOR)
Address **2745 California Avenue** (CONTRACTOR)
SLC, 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 **2339**
Signed _____
By driller performing actual drilling on site or contractor
Date **August 11, 2011**

41. 277 212°N, 117.154172°W NAD27

log # 114363
 basin # 066
 page 2 of 2



FILE NAME: P:\DW\DW-74.DWG
 REVISION DATE: March, 2 2011
 Proposed Twin Creeks DW-74 Well Design
 DRAWN BY: DW-74
 DATE STARTED:
 DATE COMPLETED:
 DRAWD UNDER:
 USFS LOCATION:
 COORDINATE SYSTEM: Twin Creeks G-1d
 GRIDING ELEVATION: ~5075 FL
 NORTHING: ~69112 FL
 EASTING: ~22088 FL



PTN:
 CEMENT:
 BENT. (MUDD):
 SAND:
 VOL CLAY:
 HOLEPLUG (CHIPS):
 CAVING:
 SLOTTED SCREEN:
 MILLSLIT/PERF:

PCP FILE:

STATE ENGINEER
 JUN 22 2011
 FACSIMILE RCVD