STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 112573
Permit No. –
Basin 137B

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. 65775

1. OWNER Fronteer Development (FNU 051)NU-4
MAILING ADDRESS 1031 Railroad St. Ste. 110
Elko, Nv. 89801

ADDRESS AT WELL LOCATION North Umberland Mine
Subdivision Name: County: NYE

2. LOCATION NW¼NW¼ Sec24T13N/ R45E
PERMIT/WAIVER NO. M/O-1625A
Issued by Water Resources Parcel. No.

Latitude 38.960387 UTM E 512027 ☐ NAD 27
Longitude 116.860270 N 4312382 ☒ NAD 83/WGS 84
NAD-27 GPS

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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Dump Material		0	70	70
Limestone		70	210	140
Granodriorite		210	330	120
Limestone		330	480	150
Granodriorite		480	665	185
Limestone		665	815	150
Granodriorite		815	870	55
Siltstone		870	890	20

Date started: November 27, 20 10
Date completed: December 2, 20 10

7. Water Level
Static water level: 714 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: ☐ Bailer ☐ Pump ☒ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
40		2

9. WELL CONSTRUCTION
Depth Drilled 890 Feet Depth Cased 882 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
14.75 Inches	0 Feet	70 Feet
8.75 Inches	75 Feet	890 Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
4.500	2.87	.337	+3	885

Perforations:
Type of perforation Slotted
Size of perforation .040
From 718 feet to 893 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 70 ☒ Pumped ☐ Poured
☐ Cement Grout 70 to 705 ☒ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 716 to 890 ☐ Pumped ☒ Poured
Type: #6 SRI
Bentonite Chips: ☒ Yes ☐ No 705 to 716 ☒ Pumped ☐ Poured
Type: 3/8" hole plug

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 Ave. (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 2365
Signed
By driller performing actual drilling on site or contractor
Date December 17, 2010