STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 112574
Permit No. —
Basin 137 B

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. 65777

1. OWNER Fronteer Development (FNU 053)NUPR1
MAILING ADDRESS 1031 Railroad St. Ste 110
Elko, NV. 89801

ADDRESS AT WELL LOCATION North Umberland Mine
North of Round Mountain, NV.
Subdivision Name: County: NYE

2. LOCATION SE¼SW¼ Sec13T13N/ R45E
PERMIT/WAIVER NO. M/M-171
Issued by Water Resources Parcel. No.

Latitude 38.963860 UTM E 512363 ☐ NAD 27
Longitude 116.856385 N 4312768 ☒ 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
Black Rock some Calcite Rock		0	330	330
Light Grey/Black Mix Rock		330	345	15
Black Grey Mix Rock		345	395	50
Black Rock		395	470	75

Date started: December 3, 20 10
Date completed: December 6, 20 10

7. Water Level
Static water level: 164' feet below land surface
Artesian Flow: G.P.M. 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)
35		2

9. WELL CONSTRUCTION
Depth Drilled 475 Feet Depth Cased 470 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
17.5 Inches	0 Feet	20 Feet
10.625 Inches	20 Feet	425 Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
12.75	49.56	.375	0	20
6.625	5.49	.432	+3	467

Perforations:
Type of perforation Slotted
Size of perforation .040
From 367 feet to 467 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 30 ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☒ Concrete Grout 30 to 340 ☒ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 360 to 475 ☐ Pumped ☒ Poured
Type: #6 Sand
Bentonite Chips: ☒ Yes ☐ No 340 to 360 ☒ 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

(Rev 05-06) USE ADDITIONAL SHEETS IF NECESSARY

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