STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 112088
Permit No.
Basin 187

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. 65750

1. OWNER Fronteer Development LCMW-09
MAILING ADDRESS 1031 Railroad St Suite 110
Elko, NV. 89801

ADDRESS AT WELL LOCATION Long Canyon
Oasis, NV
Subdivision Name: County: Elko

2. LOCATION SW¼SW¼ Sec33T36N/ R66E
Latitude 40.9519694N
Longitude 114.5223894W
UTM E 708537E N 4536169 N ☒ NAD 27 ☐ NAD 83/WGS 84

PERMIT/WAIVER NO. M/O-1614
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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Alluvium - Gravels		0	130	130
Gray Rock		130	240	110
Red Silt Rock		240	375	135
Gray Rock		375	510	135
Black Rock		510	610	100
Gray Rock & Tan Rock		610	1030	420
Balck Rock w/some Red		1030	1100	70
Gray Tan Rock		1100	1200	100
Neat Cement		0	12	12
3/8 Hole Plug		12	132	120
#8 Gravel		132	177	45
3/8 Hole Plug		177	519	342
Cement Grout		519	918	399
3/8 Hole Plug		918	1157	239
#8 Gravel		1157	1200	43

Date started: August 24, 20 10
Date completed: September 8, 20 10

7. Water Level
Static water level: 4" 102.5 2" 102.8 feet below land surface
Artesian Flow: No G.P.M. N/A P.S.I
Water Temperature: Cold °F
Quality: Good

8. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
4"	23	N/A	4
2"	31	N/A	4

9. WELL CONSTRUCTION
Depth Drilled 1200 Feet Depth Cased 1199.8 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
17.75 Inches	0 Feet	7.5 Feet
12.75 Inches	7.5 Feet	185 Feet
6.5 Inches	185 Feet	1200 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.75	40.48	.365	+2	8
4.5	2.41	.248	+4	175
2	.698	.154	+6	1199.8

Perforations:
Type of perforation Slotted
Size of perforation .020
From 134.6 feet to 174.6 feet
From 1159.4 feet to 1199.4 feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☒ Neat Cement 0 to 12 ☐ Pumped ☒ Poured
☒ Cement Grout 519 to 918 ☒ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 132 to 177 ☒ Pumped ☐ Poured
Type: S.R.I. #8 1157 to 1200
Bentonite Chips: ☒ Yes ☐ No 12.8 to 132 ☒ Pumped ☐ Poured
Type: M.I. 3/8 177 to 519

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)
S.L.C., 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 2039
Signed
By driller performing actual drilling on site or contractor
Date September 24, 2010