STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 108817
Permit No.
Basin 060

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. 64526

1. OWNER Terra-Gen Operating Co. MUW-1
MAILING ADDRESS 1000 Power Plant Place
Beowawe, NV 89820

ADDRESS AT WELL LOCATION Beowawe Power Plant, 50 miles west of Elko, NV
Subdivision Name: County: Lander

2. LOCATION SE¼SE¼ Sec13T31N/ R47E
PERMIT/WAIVER NO. 78831/W-644
Issued by Water Resources Parcel. No.

Latitude 40.555692°N UTM E 532529 ☒ NAD 27
Longitude 116.615790°W N 4489229 ☐ NAD 83/WGS 84
NAD27 (?)

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 Reverse

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Alluvium/Black Rock/Gravel		0'	220'	220'
Brown Rock		220'	340'	120'
Black/Brown Rock		340'	480'	140'
Brown Rock		480'	540'	60'
Red Rock		540'	600'	60'
Gray Rock		600'	620'	20'
Brown Rock		620'	660'	40'
Red/Brown Rock		660'	720'	60'
Brown Rock		720'	780'	60'
Brown/Red Sand w/Calcite		780'	820'	40'
Orange Rock		820'	850'	30'
Red Clay		850'	920'	70'
Multi-Color Rock w/Clay		920'	960'	40'
Black Rock		960'	1010'	50'

Date started: 26-Aug, 20 09
Date completed: 13-Sep, 20 09

9. WELL CONSTRUCTION

Depth Drilled 1010 Feet Depth Cased 1002 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
20.500 Inches	0 Feet	57 Feet
14.750 Inches	57 Feet	1010 Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
16.000	42.05	.250	0	57
8.625	22.36	.250	+2	1002

Perforations:
Type of perforation Louvered
Size of perforation .125
From 481 feet to 1002 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 50' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 55' to 1010' ☐ Pumped ☒ Poured
Type: 1/4" SRI
Bentonite Chips: ☒ Yes ☐ No 50" to 55" ☐ Pumped ☒ Poured
Type: 3/8 Hole Plug

7. Water Level
Static water level: 110 feet below land surface
Artesian Flow: G.P.M. P.S.I
Water Temperature: °F
Quality:

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

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
166.0	8.0	1.0

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 Drilling Services (CONTRACTOR)
Address P.O. Box 5279 (CONTRACTOR)
Elko, NV 89802
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 2329
Signed
By driller performing actual drilling on site or contractor
Date 22-Sep-09

2009 SEP 28 AM 11:59
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