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

OFFICE USE ONLY
Log No. 116432
Permit No.
Basin No. 101

PRINT OR TYPE IN BLACK INK ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 67432
WELL NAME *(If applicable)*: GMW-3

1. OWNER/CLIENT NAME Gradient Resources
MAILING ADDRESS 9670 Gateway Dr Suite 200
Reno, NV 89521

DETAILED ADDRESS AT WELL LOCATION
Subdivision Name: *County:* Churchill

2. PLS LOCATION sw ¼ sw ¼ 21 Sec 20 N/S 26 E
PERMIT/WAIVER NO. TNEV2013445
Issued by Water Resources *Current Parcel No.*

Latitude UTM E 321484 ☐ NAD 27
Longitude UTM N 4382897 ☒ NAD 83/WGS 84

3. WORKED PERFORMED
☒ New Well ☐ Deepen: Orig WL#
☐ Replacement: Original well log #
☐ Recondition: Original well log #

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☒ Monitor
☐ Mining / Dewater ☐ Com / Ind ☐ Stock
☐ Test / Other ☐ Mun / QM ☐ Rec

5. WELL TYPE
☐ Auger ☐ Rotary ☒ RVC
☐ Air ☐ Mud ☐ Sonic
☐ Other

6. LITHOLOGIC LOG

Material Encountered	Lost Circ.	Water Strata	From	To	Thick-ness
clay/silt		no	0	180	180
sand/gravel		yes	180	210	30
clay/stone		no	210	360	150
basalt		no	360	480	120
coarse sand/gravel		yes	480	550	70
volcanic sediments		no	550	760	210
basalt gravel		yes	760	770	10
volcanic sediments		yes	770	780	10
basalt		yes	780	800	20

RECEIVED 2013 JUN -5 PM 1:01 STATE ENGINEERS OFFICE

NAD27
39.577298°N
119.074493°W

Date started: 8-Jun, 20 13
Date completed: 12-Jun, 20 13

9. WELL CONSTRUCTION
Depth Drilled: 100 Feet Depth Cased: 99 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
14.75	Inches	0	Feet	40	Feet
9	Inches	40	Feet	440	Feet
8.75	Inches	440	Feet	800	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.75	20	.25	0	40
4.5	11.7	.25	+1	799

PERFORATIONS:
Type of perforation: slots 6 rows of 38/20'
Size of perforation: 2.5" long .020
From 739 Feet To 799 Feet
From Feet To Feet
From Feet To Feet

ANNULAR MATERIALS

☒ Sanitary Seal	0	to	727		
☐ Neat Cement		to		☐ Pumped	☐ Poured
☒ Cement Grout	0	to	727	☒ Pumped	☐ Poured
☐ Concrete Grout		to		☐ Pumped	☐ Poured
☒ Bentonite Chips	727	to	737	☒ Pumped	☐ Poured
☐ Bentonite Grout		to		☐ Pumped	☐ Poured
☐ 15 % ☐ 20 % ☐ Other, explain:					
☐ Gravel Pack [> 0.2 in.]		to		☐ Pumped	☐ Poured
☒ Sand Pack [< 0.2 in.]	737	to	800	☒ Pumped	☐ Poured
☐ Other, explain:		to		☐ Pumped	☐ Poured

7. WATER QUALITIES
Static water level: 38 Feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: 93 ° Fahrenheit
Water Quality: good

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

G.P.M.	Draw Down (Feet Below Static)	Recorded Time (Hours)
300		5

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision. This report is true to the best of my knowledge.
Name National EWP
Contractor
Address 580 W Silver St. Elko, NV 89801
Contractor

Nevada contractor's license number as issued by the *State Contractor's Board:* 0075355
Nevada well driller's license number as issued by the *Nevada Division of Water Resources (on-site driller):* 2420

Signed: [signature]
By driller performing actual drilling on site or contractor
Date: 6/25/2013

(Rev. 08-12)

USE ADDITIONAL SHEETS IF NECESSARY