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

OFFICE USE ONLY
Log No. 11709
Permit No.
Basin No. 0710

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. 67430
WELL NAME *(If applicable)*: GMW-2

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

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

2. PLS LOCATION se ¼ se ¼ 19 Sec 20 N/S 26 E
PERMIT/WAIVER NO. TNEV2013445 *Issued by Water Resources* *Current Parcel No.*

Latitude UTM E 319598 ☐ NAD 27
Longitude UTM N 4382959 ☒ 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	Thickness
sand/gravel		no	0	90	90
sand/clay		no	90	140	50
clay stone		no	140	170	30
sand/gravel		yes	170	270	100
sand		yes	270	340	70
siltstone		no	340	400	60
coarse sand		yes	400	430	30
basalt and clay		no	430	830	400
fractured basalt		yes	830	918	88

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NAD27
39.577462°N
119.099454°W

Date started: 13-Jun, 20 13
Date completed: 19-Jun, 20 13

9. WELL CONSTRUCTION
Depth Drilled: 918 Feet Depth Cased: 918 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
14.75	Inches	0	Feet	40	Feet
9	Inches	40	Feet	400	Feet
8.75	Inches	400	Feet	918	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.75	28	.25	0	40
4.5	11.7	.25	+1	918

PERFORATIONS:
Type of perforation: slots 6 rows of 38/20'
Size of perforation: 2 1/2 long x .020
From 858 Feet To 918 Feet
From Feet To Feet
From Feet To Feet

ANNULAR MATERIALS

☒ Sanitary Seal	0	to	846		
☒ Neat Cement	0	to	846	☒ Pumped	☐ Poured
☐ Cement Grout		to		☐ Pumped	☐ Poured
☐ Concrete Grout		to		☐ Pumped	☐ Poured
☒ Bentonite Chips	846	to	856	☒ Pumped	☐ Poured
☐ Bentonite Grout		to		☐ Pumped	☐ Poured
☐ 15 % ☐ 20 % ☐ Other, explain:					
☐ Gravel Pack [> 0.2 in.]		to		☐ Pumped	☐ Poured
☒ Sand Pack [< 0.2 in.]	856	to	918	☒ Pumped	☐ Poured
☐ Other, explain:		to		☐ Pumped	☐ Poured

7. WATER QUALITIES
Static water level: 62 Feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: 91 ° 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)

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:* 75355
Nevada well driller's license number as issued by the *Nevada Division of Water Resources (on-site driller):* 2420
Signed: Neil Dale
By driller performing actual drilling on site or contractor
Date: 7/13/2013

(Rev. 08-12)

USE ADDITIONAL SHEETS IF NECESSARY