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

OFFICE USE ONLY
Log No. 117057
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. 67449
WELL NAME *(If applicable)*: GMW-6

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 se ¼ se ¼ 29 Sec 20 N/S 26 E
PERMIT/WAIVER NO. TNEV2013445 *Issued by Water Resources* *Current Parcel No.*

Latitude UTM E 321146 ☐ NAD 27
Longitude UTM N 4381293 ☒ 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	40	40
coarse sand		no	40	80	40
basltic sand/gravel		yes	80	120	40
silt stone		o	120	190	70
sand (coarse		yes	190	240	50
gravel/sand		yes	240	310	70
silt stone		no	310	460	150
sand/gravel		yes	460	470	10
basalt		no	470	550	80
fractured basalt		yes	550	599	49

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NAD27
39.562784°N
119.080993°W

Date started: 20-Jun, 20 13
Date completed: 21-Jun, 20 13

9. WELL CONSTRUCTION
Depth Drilled: 599 Feet Depth Cased: 598.5 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
14.75	Inches	0	Feet	40	Feet
9	Inches	40	Feet	599	Feet
	Inches		Feet		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	598.5

PERFORATIONS:
Type of perforation: slots 6 rows of 38/20'
Size of perforation: 2 1/2 long x .020
From 558.5 Feet To 598.5 Feet
From Feet To Feet
From Feet To Feet

ANNULAR MATERIALS

☒ Sanitary Seal	0	to 546		
☒ Neat Cement	0	to 546	☒ Pumped	☐ Poured
☐ Cement Grout		to	☐ Pumped	☐ Poured
☐ Concrete Grout		to	☐ Pumped	☐ Poured
☒ Bentonite Chips	546	to 556.5	☒ Pumped	☐ Poured
☐ Bentonite Grout		to	☐ Pumped	☐ Poured
☐ 15 % ☐ 20 % ☐ Other, explain:				
☐ Gravel Pack [> 0.2 in.]		to	☐ Pumped	☐ Poured
☒ Sand Pack [< 0.2 in.]	557	to 599	☒ Pumped	☐ Poured
☐ Other, explain:		to	☐ Pumped	☐ Poured

7. WATER QUALITIES
Static water level: 10 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)
11		3.5

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

(Rev. 08-12)

USE ADDITIONAL SHEETS IF NECESSARY