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

OFFICE USE ONLY
Log No. 117754
Permit No.
Basin 052

PRINT OR TYPE 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. 68926

1. OWNER MARK MANGES
MAILING ADDRESS P.O. BOX 201
CARLIN, NV 89822

ADDRESS AT WELL LOCATION 111 TOMERA RANCH ROAD
Subdivision Name: PARCEL OF LAND County: ELKO

2. LOCATION SW ¼ SW ¼ Sec 33 T 33N N/S R 52 E
PERMIT/WAIVER No. 002-230-028
Issued by Water Resources Parcel No.

Latitude
Longitude
UTM E 11T 0572807 [X] NAD 27
N 4505340 [ ] NAD 83/WGS 84

3. WORKED PERFORMED
[ ] New Well [X] Replace [ ] Recondition
[ ] Deepen [ ] Other

4. PROPOSED USE
[X] Domestic [ ] Irrigation [ ] Test
[ ] Municipal/Industrial [ ] Monitor [ ] Stock

5. WELL TYPE
[ ] Cable [X] Rotary [ ] RVC
[X] Air [ ] Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
TOP SOIL STRIPPED				
SAND AND GRAVEL		1	5	5
CLAY		5	15	10
BIG GRAVEL		15	25	10
BROWN CLAY w/ GRAVEL		25	35	10
GREY CLAY w/ GRAVEL		35	40	5
GRAVEL w/ SILT AND CLAY		40	160	120
FINE TAN & GREY GRAVEL	XX	160	195	35

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Date started: 17-Aug, 20 12
Date completed: 20-Aug, 20 12

9. WELL CONSTRUCTION
Depth Drilled 195 Feet Depth Cased 195 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10 5/8	Inches	0	Feet	195	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
6.625	13	.188	+2	195

Perforations:
Type of perforation PLASMA CUT
Size of perforation 3/16" X 4", 7 ROWS
From 175 feet to 195 feet
From feet to feet
From HOLTZ AIR PERF TOOL feet to 4 ROWS feet
From 155 feet to 175 feet
From feet to feet

Annular Seal: [X] Yes [ ] No
[X] Neat Cement 4 to 105 [X] Pumped [ ] Poured
[ ] Cement Grout to [ ] Pumped [ ] Poured
[ ] Concrete Grout to [ ] Pumped [ ] Poured
[ ] ≥30% Bentonite Grout to [ ] Pumped [ ] Poured

Gravel Pack: [X] Yes [ ] No 105 to 195 [ ] Pumped [X] Poured
Type: 3/8" WASHED PEA GRAVEL
Bentonite Chips: [ ] Yes [X] No to [ ] Pumped [ ] Poured
Type:

7. Water Level
Static water level: 26 feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: 76 °F
Quality:

8. WELL TEST DATA
TEST METHOD: [ ] Bailer [ ] Pump [X] Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
AT 195'	30		4 HOURS
AT 140'	17		

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name HACKWORTH DRILLING, INC. (Contractor)
Address P. O. BOX 850 (Contractor)
ELKO, NV 89803
Nevada contractor's license number issued by the *State Contractor's Board* 020582
Nevada driller's license number issued by the Division of Water Resources, the *on-site driller* 1653
Signed (By driller performing actual drilling on site or contractor)
Date 8/22/2012

(Rev. 05-06)
USE ADDITIONAL SHEETS IF NECESSARY

NAD27 40.697219°N, 116.138256°W