

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

OFFICE USE ONLY  
 Log No. 87678  
 Permit No. \_\_\_\_\_  
 Ba. 101  
 Page 1 of 3  
 NOTICE OF INTENT NO. **50813**

PRINT OR TYPE ONLY  
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Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OWNER **United States Geological Survey, WRD 00-4**  
 MAILING ADDRESS **333 West Nye Lane, Room 203**  
**Carson City, NV 89706**

ADDRESS AT WELL LOCATION **2840 Enterprise Way,**  
**Fallon, NV**

2. LOCATION NE 1/4 NE 1/4 Sec. 21 T 19N N/S R 29E E Churchill County  
 PERMIT NO. M/O-1255 Issued by Water Resources Parcel No. 007-311-42 Subdivision Name N/A

3. WORK PERFORMED  
 New Well  Replace  Recondition  Deepen  Abandon  Other \_\_\_\_\_  
 4. PROPOSED USE  
 Domestic  Municipal/Industrial  Irrigation  Monitor  Test  Stock  
 5. WELL TYPE  
 Cable  Rotary  RVC  Air  Other **Flooded**

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Asphalt and gravel		0	3	3
Fine sand		3	30	27
Soft black clay		30	70	40
Sand		70	80	10
Gray clay		80	85	5
Brown clay		85	100	15
Sand and gravel		100	115	15
Brown clay		115	130	15
Green clay		130	155	25
Soft black clay		155	160	5
Sand		160	170	10
Green and black clay		170	180	10
Sand and clay		180	200	20
Gray clay and sand		200	211	11
Green stiff clay and sand		211	235	24
Black clay		235	238	3
Coarse sand and gravel		238	255	17
Clay		255	258	3
Coarse sand		258	268	10
Clay and sand		268	274	6
Coarse sand		274	288	14
Green clay and sand		288	313	25
Sand with some clay		313	325	12
Clay with some sand		325	340	15
Basaltic gravel and cobbles		340	343	3
Massive to vesicular basalt		343	638	295
Black cinders		638	649	11
Vesicular to massive basalt		649	754	105
Fine sand		754	764	10

Continued on next page

Date started 8/22/2002, 19  
 Date completed 9/6/2002, 19

7. WELL TEST DATA

TEST METHOD:	TEST METHOD:		
	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input checked="" type="checkbox"/> Air Lift			
#1	0.6	Not Meas.	5 Hours
#2	15	Not Meas.	1 Hour
#3	19	Not Meas.	1 Hour

8. WELL CONSTRUCTION

Depth Drilled 949 Feet Depth Cased 880 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
120 Inches	0	11
34 Inches	11	80
19 Inches	80	345

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
50	264.33	0.500	0	11
34	178.9	0.500	0	80
12.75	33.38	0.250	0	345

Perforations:  
 Type perforation Slot  
 Size perforation 0.020"

From	To
#1: 840	870
	770
	585

Surface Seal:  Yes  No  
 Depth of Seal See Detail  
 Placement Method:  Pumped  Poured  
 Seal Type:  Neat Cement  Cement Grout  Concrete Grout  
 Gravel Packed:  Yes  No  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet

9. WATER LEVEL  
 Static water level #1: 43.66 (see p. 2) feet below land surface  
 Artesian flow N/A G.P.M. \_\_\_\_\_ P.S.I. \_\_\_\_\_  
 Water temperature Cool °F Quality Fair

10. DRILLER'S CERTIFICATION  
 This well was drilled under my supervision and the report is true to the best of my knowledge.  
 Name Lang Exploratory Drilling Contractor  
 Address P.O. Box 5279 Contractor  
Elko, NV 89802-5279  
 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 2204  
 Signed Caleb Roberts  
 By driller performing actual drilling on-site or contractor  
 Date 9/11/02

B.S.F.L.

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

OFFICE USE ONLY  
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 Permit No. \_\_\_\_\_  
 Basin 101

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NOTICE OF INTENT NO. 50813

OWNER United States Geological Survey, WRD DB-4  
 MAILING ADDRESS Page -2-

ADDRESS AT WELL LOCATION 501 Hamilton Street, Carlin, NV, 2840 Enterprise Way FALLON NV

2. LOCATION NE 1/4 NE 1/4 Sec. 21 T 19 R 25 E Churchill County  
 PERMIT NO. M/0 1255 07-311-42 Parcel No. \_\_\_\_\_  
 Issued by Water Resources \_\_\_\_\_ Subdivision Name \_\_\_\_\_

3. WORK PERFORMED  
 New Well  Replace  Recondition  
 Deepen  Abandon  Other \_\_\_\_\_

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

5. WELL TYPE  
 Cable  Rotary  RVC  
 Air  Other **Flooded**

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Black cinders		764	777	13
Gray clay		777	784	7
Gray cinders, clay, sand and gravel		784	825	41
Massive basalt, some fractures and clay		825	949	124

Note: When 19" hole had advanced to 350', the fluid level dropped, causing a collapse that extended to surface. The collapse at surface was some 11' deep and in diameter. 50" casing was installed and concrete grouted. 34" casing was vibrated down to 80', and the upper 11' cemented. Hole was cleaned, 12" casing set, and cemented to surface.

8. WELL CONSTRUCTION

Depth Drilled \_\_\_\_\_ Feet Depth Cased \_\_\_\_\_ Feet

HOLE DIAMETER (BIT SIZE)

	From	To
9.875 Inches	345 Feet	949 Feet
_____ Inches	_____ Feet	_____ Feet
_____ Inches	_____ Feet	_____ Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
#1: 2.375	0.958	Sch. 80	+2	880
#2: 2.375	0.958	Sch. 80	+2	780
#3: 2.375	0.958	Sch. 80	+2	595

Perforations:  
 Type perforation \_\_\_\_\_  
 Size perforation \_\_\_\_\_

From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface Seal:  Yes  No Seal Type:  
 Depth of Seal \_\_\_\_\_  Neat Cement  
 Placement Method:  Pumped  Cement Grout  
 Poured  Concrete Grout

Gravel Packed:  Yes  No  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet

9. WATER LEVEL

Static water level #2: 40.83 #3: 40.56 feet below land surface  
 Artesian flow \_\_\_\_\_ G.P.M. \_\_\_\_\_ P.S.I.  
 Water temperature \_\_\_\_\_ °F Quality \_\_\_\_\_

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Lang Exploratory Drilling Contractor  
 Address P.O. Box 5279 Contractor  
Elko, NV 89802-5279  
 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 \_\_\_\_\_

Signed \_\_\_\_\_  
 By driller performing actual drilling on-site or contractor

Date 9/11/02

7. WELL TEST DATA

TEST METHOD:	<input type="checkbox"/> Bailer	<input type="checkbox"/> Pump	<input type="checkbox"/> Air Lift
G.P.M.	Draw Down (Feet Below Static)	Time (Hours)	

STATE OF NEVADA  
 DIVISION OF WATER RESOURCES  
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NOTICE OF INTENT NO. **50813+**

OWNER **United States Geological Survey, WRD DB-4**  
 MAILING ADDRESS **Page -3-**

ADDRESS AT WELL LOCATION **2840 Enterprise Way, Fallon, NV.**

2. LOCATION **NE 1/4 NE 1/4 Sec. 21 T 19N N/S R 29E E Churchill** County  
 PERMIT NO. **M/O-1255** **007-311-42**  
Issued by Water Resources Parcel No. Subdivision Name

3. **WORK PERFORMED**  
 New Well  Replace  Recondition  
 Deepen  Abandon  Other \_\_\_\_\_

4. **PROPOSED USE**  
 Domestic  Irrigation  Test  
 Municipal/Industrial  Monitor  Stock

5. **WELL TYPE**  
 Cable  Rotary  RVC  
 Air  Other \_\_\_\_\_

6. **LITHOLOGIC LOG**

Material	Water Strata	From	To	Thick-ness
<b>Well Construction Detail:</b>				
Hole plug		0	559.5	559.5
Sand		559.5	596	36.5
Hole plug		596	733	137
Sand		733	781	48
Hole plug		781	830	49
Sand		830	877.5	47.5
Hole plug		877.5	949	71.5

8. **WELL CONSTRUCTION**  
 Depth Drilled \_\_\_\_\_ Feet Depth Cased \_\_\_\_\_ Feet

**HOLE DIAMETER (BIT SIZE)**

Inches	From	To	Feet	Feet
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**CASING SCHEDULE**

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

**Perforations:**  
 Type perforation \_\_\_\_\_  
 Size perforation \_\_\_\_\_

From _____	_____ feet to _____	_____ feet
From _____	_____ feet to _____	_____ feet
From _____	_____ feet to _____	_____ feet
From _____	_____ feet to _____	_____ feet
From _____	_____ feet to _____	_____ feet

Surface Seal:  Yes  No  
 Depth of Seal \_\_\_\_\_  
 Placement Method:  Pumped  Poured  
 Gravel Packed:  Yes  No  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Seal Type:  
 Neat Cement  
 Cement Grout  
 Concrete Grout

9. **WATER LEVEL**  
 Static water level \_\_\_\_\_ feet below land surface  
 Artesian flow \_\_\_\_\_ G.P.M. \_\_\_\_\_ P.S.I.  
 Water temperature \_\_\_\_\_ °F Quality \_\_\_\_\_

10. **DRILLER'S CERTIFICATION**  
 This well was drilled under my supervision and the report is true to the best of my knowledge.  
 Name **Lang Exploratory Drilling** Contractor  
 Address **P.O. Box 5279** Contractor  
**Elko, NV 89802-5279**  
 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 \_\_\_\_\_  
 Signed \_\_\_\_\_  
By driller performing actual drilling on-site or contractor  
 Date **9/11/02**

Date started \_\_\_\_\_, 19\_\_\_\_  
 Date completed \_\_\_\_\_, 19\_\_\_\_

7. **WELL TEST DATA**

TEST METHOD:	TEST METHOD:		Time (Hours)
	G.P.M.	Draw Down (Feet Below Static)	
<input type="checkbox"/> Bailer			
<input type="checkbox"/> Pump			
<input type="checkbox"/> Air Lift			