

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

OFFICE USE ONLY
 Log No. 87677
 Permit No. 101
 Page 1 of 3
 NOTICE OF INTENT NO. 50813

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

1. OWNER United States Geological Survey, WRD DB-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
 PERMIT NO. M/O-1255 007-311-42
Issued by Water Resources Parcel No.

N/S R 29E E Churchill County
N/A 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
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

8. WELL CONSTRUCTION

Depth Drilled 949 Feet Depth Cased 880 Feet

HOLE DIAMETER (BIT SIZE)

	From	To	
<u>120</u> Inches	<u>0</u> Feet	<u>11</u> Feet	
<u>34</u> Inches	<u>11</u> Feet	<u>80</u> Feet	
<u>19</u> Inches	<u>80</u> Feet	<u>345</u> Feet	

CASING SCHEDULE

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

Perforations:
 Type perforation Slot
 Size perforation 0.020"

From	To	Feet
<u>0</u>	<u>870</u>	feet
<u>#2: 750</u>	<u>770</u>	feet
<u>#3: 570</u>	<u>585</u>	feet

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

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

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<u>#1</u>	<u>0.6</u>	<u>Not Meas.</u>	<u>5 Hours</u>
<u>#2</u>	<u>15</u>	<u>Not Meas.</u>	<u>1 Hour</u>
<u>#3</u>	<u>19</u>	<u>Not Meas.</u>	<u>1 Hour</u>

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
Eiko, 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

Log No. _____
 Permit No. _____
 Basin 101

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NOTICE OF INTENT NO. 50813

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

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

2. LOCATION NE 1/4 NE 1/4 Sec. 21 T 19
 PERMIT NO. M/D 1255 07-311-42
Issued by Water Resources Parcel No.

25 S R 29 E Churchill County
 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	Thick-ness
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 10' 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: Neat Cement
 Depth of Seal _____ Cement Grout
 Placement Method: Pumped Concrete Grout
 Poured
 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

Date started _____, 19____
 Date completed _____, 19____

7. WELL TEST DATA

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

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 MAILING ADDRESS **Page -3-** **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** Parcel No. _____
Issued by Water Resources Subdivision Name

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 _____

6. **LITHOLOGIC LOG**

Material	Water Strata	From	To	Thickness
Well Construction Detail:				
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)
 From _____ To _____
 Inches _____ Feet _____ Feet
 Inches _____ Feet _____ Feet
 Inches _____ 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

Surface Seal: Yes No
 Depth of Seal _____
 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 _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

Date started _____, 19____
 Date completed _____, 19____

7. **WELL TEST DATA**

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

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**